# Compilation of Changes to the CPC Scheme Between 2018.08 and 2019.01

		Presenta	ation Details
		new symbols and headings: existing symbols and headings —text insertions:	Black text in italics Green text in italics with yellow background
	Entries for c	text deletions: deleted symbols and headings:	Red strikethrough text with grey background Black strikethrough text
	Entries an	ranged by project. <u>Duplicate</u> entries	may appear where multiple projects impact the
	(e.g. the c		
Pro	oject: MP0146 (H0	 1H)	
U	H01H 53/00	opened or closed due to	no-electric effect, i.e. relays in which contacts are o relative movement of current-carrying conductor sed by force of interaction between them
М	H01H 53/14		n electric motor through fluid-pressure transmission, e.g ump {(switches using dynamo-electric motor <u>H01H 3/26)</u>
		WARNING Not complete, see also	H01H 9/00
U	H01H 85/00	material and this currer material when this curre melting of fusible mater	hich the current flows through a part of fusible nt is interrupted by displacement of the fusible ent becomes excessive (switches actuated by rial <u>H01H 37/76</u> ; automatic release of protective of a mass <u>H01H 73/00</u> - <u>H01H 83/00</u> ; disposition or n boards <u>H02B 1/18</u> )
U	H01H 85/02	Details (electrical connerts)	ections in general <u>H01R</u> )
U	H01H 85/04	Fuses, i.e. expendable	le parts of the protective device, e.g. cartridges
U	H01H 85/041	• • • characterised by the	e type
U	H01H 85/044	1000 V, or of fuse	tions or structure of low voltage fuses, i.e. below es where the applicable voltage is not specified 101H 85/048 take precedence)
Μ	H01H 85/0445	•••• fast or slow type	e ( <u>H01H 85/045</u> - <u>H01H 85/048</u> take precedence)
		WARNING Not complete, s	see also H01H 85/044

# Project: MP0146 (H01L)

- U H01L 21/00 Processes or apparatus adapted for the manufacture or treatment of semiconductor or solid state devices or of parts thereof ({testing or measuring during manufacture or treatment, or reliability measurements H01L 22/00; multistep manufacturing processes for passive two-terminal components without a potential-jump or surface barrier for integrated circuits H01L 28/00; } processes or apparatus peculiar to the manufacture or treatment of devices provided for in groups H01L 31/00 H01L 51/00 or of parts thereof, see these groups; single-step processes covered by other subclasses, see the relevant subclasses, e.g. C23C, C30B; photomechanical production of textured or patterned surfaces, materials or originals therefor, apparatus specially adapted therefor, in general G03F)
- U H01L 21/02 Manufacture or treatment of semiconductor devices or of parts thereof

U	H01L 21/04	<ul> <li>the devices having at least one potential-jump barrier or surface barrier, e.g. PN junction, depletion layer, carrier concentration layer {(multistep processes specially adapted for the manufacture of said devices <u>H01L 29/66007</u>, <u>H01L 29/401</u>; details of semiconductor bodies <u>H01L 29/02</u>)}</li> </ul>
U	H01L 21/48	<ul> <li>Manufacture or treatment of parts, e.g. containers, prior to assembly of the devices, using processes not provided for in a single one of the subgroups H01L 21/06 - H01L 21/326 ({apparatus therefor H01L 21/67005; insulative sealing of leads in bases H01L 21/50}; containers, encapsulations, fillings, mountings per se H01L 23/00; {marking of parts H01L 23/544})</li> <li>NOTE</li> </ul>
		In this group, the expression "treatment" covers also the removal of leads from parts
U	H01L 21/4814	· · · {Conductive parts}
М	H01L 21/4885	<ul> <li>•••• {Wire-like parts or pins (wire ball formation <u>B23K 20/00</u>; methods related to connecting semiconductor or other solid state bodies <u>H01L 24/00</u>)}</li> </ul>
		WARNING
		The documents of this group and subgroups dealing with methods for connecting semiconductor or other solid state bodies are being continuously reclassified to H01L 24/43
U	H01L 21/67	<ul> <li>Apparatus specially adapted for handling semiconductor or electric solid state devices during manufacture or treatment thereof; Apparatus specially adapted for handling wafers during manufacture or treatment of semiconductor or electric solid state devices or components {; Apparatus not specifically provided for elsewhere (processes per se H01L 21/30, H01L 21/46, H01L 23/00; simple temporary support means, e.g. using adhesives, electric or magnetic means H01L 21/68, H01L 21/302; apparatus for manufacturing arrangements for connecting or disconnecting semiconductor or solid-state bodies and for methods related thereto H01L 24/74;))</li> <li>NOTE</li> <li>In this subgroup the term substrate designates a semiconductor or electric solid related thereto H01L 24/74;)</li> </ul>
М	H01L 21/68	<ul> <li>state device or component, or a wafer</li> <li>for positioning, orientation or alignment (for conveying H01L 21/677)</li> </ul>
IVI	101221/00	WARNING
		This group is in reorganisation. See provisionally also group H01L 21/6835
U	H01L 24/00	<ul> <li>(Arrangements for connecting or disconnecting semiconductor or solid-state bodies; Methods or apparatus related thereto)</li> <li>NOTES</li> <li>1. This group does not cover: <ul> <li>details of semiconductor bodies or of electrodes of devices provided for in group H01L 29/00, which details are covered by that group;</li> <li>details peculiar to devices provided for in a single main group of groups H01L 31/00 - H01L 51/00, which details are covered by those groups.</li> <li>printed circuits, which are covered by groups H05K 1/00 - H05K 1/189;</li> <li>apparatus or manufacturing processes for printed circuits, which are covered by groups H05K 3/4685;</li> <li>manufacture or treatment of parts, which are covered by group H01L 21/48 and subgroups except H01L 21/4885 - H01L 21/4896;</li> <li>assemblies of semiconductor devices, which are covered by groups H01L 21/50 - H01L 21/568;</li> </ul> </li> </ul>

		<ul> <li>applying interconnections to be used for carrying current between separate components within a device, which is covered by group <u>H01L 21/768</u> and subgroups;</li> </ul>
		<ul> <li>containers or seals, which are covered by groups <u>H01L 23/02</u> - <u>H01L 23/10</u>;</li> <li>mountings, which are covered by groups <u>H01L 23/12</u> - <u>H01L 23/15</u> and subgroups;</li> </ul>
		<ul> <li>arrangements for cooling, heating, ventilating or temperature compensation, which are covered by groups <u>H01L 23/34</u> - <u>H01L 23/4735</u>;</li> </ul>
		<ul> <li>arrangements for conducting electric current, which are covered by groups <u>H01L 23/48</u> - <u>H01L 23/50</u>, and by groups <u>H01L 23/52</u> - <u>H01L 23/5389</u>;</li> <li>structural electrical arrangements, which are covered by groups <u>H01L 24/80</u> - <u>H01L 23/66</u>;</li> </ul>
		<ul> <li>assemblies of semiconductor or other solid state devices, which are covered by groups <u>H01L 25/00</u> - <u>H01L 25/18</u>.</li> </ul>
		2. In this group the following indexing codes are used : <u>H01L 24/00</u> , H01L 2224/00, H01L 2924/00, and subgroups thereof
U	H01L 24/01	<ul> <li>{Means for bonding being attached to, or being formed on, the surface to be connected, e.g. chip-to-package, die-attach, "first-level" interconnects; Manufacturing methods related thereto}</li> </ul>
U	H01L 24/42	<ul> <li>{Wire connectors; Manufacturing methods related thereto}</li> </ul>
М	H01L 24/43	• • {Manufacturing methods}
		WARNING
		Group H01L 24/43 is incomplete pending reclassification of documents from groups H01L 21/4885 and H01L 24/42, and H01L 24/85.
		Groups H01L 24/43 and H01L 21/4885, H01L 24/42, and H01L 24/85 should be considered in order to perform a complete search.

# Project: MP0146 (H02M)

U	H02M 1/00	Details of apparatus for conversion
Μ	H02M 1/32	<ul> <li>Means for protecting converters other than automatic disconnection (emergency protective circuit arrangements specially adapted for converters with automatic disconnection <u>H02H 7/10</u>)</li> </ul>
		WARNING
		Group H02M 1/32 and its subgroup are not complete, see provisionally also H02M 1/32, H02M 3/00 and subgroups, H02M 7/00 and subgroups
М	H02M 1/36	<ul> <li>Means for starting or stopping converters</li> </ul>
		WARNING
		Group H02M 1/36 is not complete, see provisionally also H02M 3/00 and subgroups, H02M 7/00 and subgroups
M H02M 1/38	H02M 1/38	<ul> <li>Means for preventing simultaneous conduction of switches</li> </ul>
		WARNING
		Group H02M 1/38 is not complete, see provisionally also H02M 3/337 and subgroups, H02M 7/538 and subgroups
М	H02M 1/40	<ul> <li>Means for preventing magnetic saturation</li> </ul>
		WARNING
		Group H02M 1/40 is not complete, see provisionally also H02M 3/335

М	H02M 1/42	<ul> <li>Circuits or arrangements for compensating for or adjusting power factor in converters or inverters</li> </ul>
		<u>WARNING</u> Group H02M 1/42 is not complete, see provisionally also H02M 1/32 and subgroups
Μ	H02M 1/44	<ul> <li>Circuits or arrangements for compensating for electromagnetic interference in converters or inverters</li> </ul>
		<u>WARNING</u> Group H02M 1/44 is not complete, see provisionally also H02M 7/00 and subgroups
U	H02M 7/00	Conversion of ac power input into dc power output; Conversion of dc power input into ac power output
U	H02M 7/42	Conversion of dc power input into ac power output without possibility of reversal
U	H02M 7/44	• by static converters
U	H02M 7/48	• • using discharge tubes with control electrode or semiconductor devices with control electrode
U	H02M 7/53	<ul> <li>using devices of a triode or transistor type requiring continuous application of a control signal {(<u>H02M 7/4807</u>, <u>H02M 7/493</u> and <u>H02M 7/4826</u> take precedence)}</li> </ul>
U	H02M 7/537	•••••using semiconductor devices only, e.g. single switched pulse inverters
Μ	H02M 7/5375	••••• with special starting equipment
		WARNING Incomplete, see also H02M 1/36

### Project: MP0146 (H02N)

M H02N 2/00 Electric machines in general using piezo-electric effect, electrostriction or magnetostriction (generating mechanical vibrations in general B06B; piezo-electric, electrostrictive or magnetostrictive devices in general H01L 41/00) WARNING

This group is not complete pending reorganisation; see provisionally also H01L 41/00

# Project: MP0146 (H02P)

M H02P 15/00 Arrangements for controlling dynamo-electric brakes or clutches (controlling speed of dynamo-electric motors by means of a separate brake H02P 29/04, vector control H02P 21/00 {see provisionally also H02K 49/00 and H02P 29/0022})

WARNING

Not complete, see also H02K 49/00 and H02P 29/0022

#### Project: MP0146 (H03B)

U	H03B 5/00	Generation of oscillations using amplifier with regenerative feedback from output to input (H03B 9/00, H03B 15/00 take precedence)
U	H03B 5/08	<ul> <li>with frequency-determining element comprising lumped inductance and capacitance</li> </ul>

Μ	H03B 5/12	<ul> <li>active element in amplifier being semiconductor device (<u>H03B 5/14</u> takes precedence)</li> </ul>
		<u>WARNING</u> Subgroups H03B 5/1203 - H03B 5/1296 are incomplete pending reclassification; see also the other subgroups of H03B 5/12
Pro	ject: MP0146 (H03D	
U	H03D 7/00	Transference of modulation from one carrier to another, e.g. frequency- changing ( <u>H03D 9/00</u> , <u>H03D 11/00</u> take precedence; dielectric amplifiers, magnetic amplifiers, parametric amplifiers used as a frequency-changers <u>H03F</u> )
U	H03D 7/14	Balanced arrangements
Μ	H03D 7/1425	<ul> <li>- {with transistors}</li> </ul>
		WARNING Subgroups H03D 7/1433 - H03D 7/1491 are incomplete pending reclassification; see also this group and its other subgroups
Pro	ject: MP0146 (H03F	)
		Details of amplifiers with only discharge tubes, only comisenductor devices

U	H03F 1/00	Details of amplifiers with only discharge tubes, only semiconductor devices or only unspecified devices as amplifying elements
U	H03F 1/30	<ul> <li>Modifications of amplifiers to reduce influence of variations of temperature or supply voltage {or other physical parameters (in differential amplifiers <u>H03F 3/45479</u>)}</li> </ul>
U	H03F 1/307	<ul> <li>• {in push-pull amplifiers}</li> </ul>
Μ	H03F 1/308	• • • {using MOSFET}
		WARNING
		Not complete, see also H03F 1/301
М	H03F 1/309	· · · {using junction-FET}
		WARNING
		Not complete, see also H03F 1/306
U	H03F 1/32	<ul> <li>Modifications of amplifiers to reduce non-linear distortion (by negative feedback <u>H03F 1/34</u>)</li> </ul>
U	H03F 1/3223	<ul> <li>• {using feed-forward (<u>H03F 1/3211</u> takes precedence)}</li> </ul>
U	H03F 1/3229	<ul> <li>• {using a loop for error extraction and another loop for error subtraction}</li> </ul>
Μ	H03F 1/3235	· · · {using a pilot signal}
		WARNING
		Not complete, see also H03F 1/3229
U	H03F 1/3241	<ul> <li>• {using predistortion circuits (<u>H03F 1/3211</u>, <u>H03F 1/3217</u> take precedence)}</li> </ul>
Μ	H03F 1/3247	<ul> <li>• {using feedback acting on predistortion circuits (<u>H03F 1/3264</u> takes precedence)}</li> </ul>
		WARNING
		Not complete, see also H03F 1/3241 for non patent literature

М	H03F 1/3252	<ul> <li>• • {using multiple parallel paths between input and output (<u>H03F 1/3258</u>, <u>H03F 1/3282</u>, <u>H03F 1/3294</u> take precedence)}</li> </ul>
		<u>WARNING</u> Not complete, see also H03F 1/3241 for non patent literature
U	H03F 1/34	<ul> <li>Negative-feedback-circuit arrangements with or without positive feedback (<u>H03F 1/02</u> - <u>H03F 1/30</u>, <u>H03F 1/38</u> - <u>H03F 1/50</u>, <u>H03F 3/50</u> take precedence; {for rejection of common mode signals <u>H03F 3/45479</u>})</li> </ul>
Μ	H03F 1/345	<ul> <li>- {using hybrid or directional couplers}</li> </ul>
		WARNING
		Not complete, see also H03F 1/34
U	H03F 1/52	<ul> <li>Circuit arrangements for protecting such amplifiers {(monitoring arrangements G01R 31/28; increasing reliability in communication systems, e.g. using redundancy H04B 1/74)}</li> </ul>
М	H03F 1/526	<ul> <li>• {protecting by using redundant amplifiers}</li> </ul>
		WARNING
		Not complete, see also H03F 1/523
U	H03F 3/00	Amplifiers with only discharge tubes or only semiconductor devices as amplifying elements
Μ	H03F 3/005	<ul> <li>{using switched capacitors, e.g. dynamic amplifiers; using switched capacitors as resistors in differential amplifiers (<u>H03F 3/45</u> takes precedence)}</li> </ul>
		NOTE
		Groups <u>H03F 3/20</u> - <u>H03F 3/72</u> take precedence over groups <u>H03F 3/02</u> - <u>H03F 3/195</u>
		WARNING
		Not complete, see also H03F 1/02, H03F 3/70, H03F 3/72
U	H03F 3/20	<ul> <li>Power amplifiers, e.g. Class B amplifiers, Class C amplifiers (<u>H03F 3/26</u> - <u>H03F 3/30</u> take precedence)</li> </ul>
U	H03F 3/21	<ul> <li>with semiconductor devices only {(<u>H03F 3/245</u> takes precedence)}</li> </ul>
Μ	H03F 3/211	<ul> <li>• • {using a combination of several amplifiers (<u>H03F 3/60</u> takes precedence)}</li> </ul>
		<u>WARNING</u> Not complete, see also H03F 3/21, H03F 3/68
U	H03F 3/60	<ul> <li>Amplifiers in which coupling networks have distributed constants, e.g. with waveguide resonators (<u>H03F 3/54</u> takes precedence)</li> </ul>
М	H03F 3/601	<ul> <li>• {using FET's, e.g. GaAs FET's (<u>H03F 3/607</u>, <u>H03F 3/608</u> take precedence)}</li> </ul>
		WARNING
		Not complete, see also H03F 3/16
М	H03F 3/602	<ul> <li>• {Combinations of several amplifiers}</li> </ul>
		WARNING
		Not complete, see also H03F 3/68
М	H03F 3/604	• • • {using FET's}
		WARNING
		Not complete, see also H03F 3/16, H03F 3/68

М	H03F 3/605	<ul> <li>{Distributed amplifiers}</li> </ul>
		WARNING
		Not complete, see also H03F 1/18
M HC	H03F 3/607	• • • {using FET's}
		WARNING
		Not complete, see also H03F 1/18
Μ	H03F 3/608	<ul> <li>• {Reflection amplifiers, i.e. amplifiers using a one-port amplifying element and a multiport coupler (<u>H03F 7/00</u> takes precedence)}</li> </ul>
		WARNING
		Not complete, see also H03F 3/46

# Project: MP0146 (H03H)

U	H03H 7/00	Multiple-port networks comprising only passive electrical elements as network components (receiver input circuits <u>H04B 1/18</u> ; networks simulating a length of communication cable <u>H04B 3/40</u> )
U	H03H 7/01	<ul> <li>Frequency selective two-port networks</li> </ul>
М	H03H 7/17	<ul> <li>• {Structural details of sub-circuits of frequency selective networks}</li> </ul>
		WARNING
		not complete, pending reorganisation, see provisionally also H03H 7/0107, H03H 7/0123 - H03H 7/07, H03H 7/09 - H03H 7/13 and H03H 7/42
U	H03H 7/42	Balance/unbalance networks
М	H03H 7/425	<ul> <li>• {Balance-balance networks}</li> </ul>
		WARNING
		not complete, pending reorganisation, see provisionally also H03H 1/00 - H03H 1/0007, H03H 7/0107, H03H 7/0123 - H03H 7/07, H03H 7/09 - H03H 7/13, H03H 7/42 and H03H 7/422
М	H03H 7/427	<ul> <li>• • {Common-mode filters (<u>H02J 3/01</u> and <u>H02M 1/126</u> takes precedence)}</li> </ul>
		WARNING
		not complete, pending reorganisation, see provisionally also H03H 1/00 - H03H 1/0007, H03H 7/0107, H03H 7/0123 - H03H 7/07, H03H 7/09 - H03H 7/13 and H03H 7/42

# Project: MP0146 (H03K)

U	H03K 3/00	Circuits for generating electric pulses; Monostable, bistable or multistable circuits (H03K 4/00 takes precedence; for digital computers G06F 1/025, $\{G06F 1/04\}$ )
U	H03K 3/02	<ul> <li>Generators characterised by the type of circuit or by the means used for producing pulses (<u>H03K 3/64</u> - <u>H03K 3/84</u> take precedence)</li> </ul>
М	H03K 3/35	<ul> <li>by the use, as active elements, of bipolar semiconductor devices with more than two PN junctions, or more than three electrodes, or more than one electrode connected to the same conductivity region (<u>H03K 3/023</u>, <u>H03K 3/027</u> take precedence)</li> </ul>
		WARNING
		Not complete; for four layer diodes see also H03K 3/313
U	H03K 3/353	<ul> <li>• by the use, as active elements, of field-effect transistors with internal or external positive feedback (<u>H03K 3/023</u>, <u>H03K 3/027</u> take precedence)</li> </ul>

U	H03K 3/356	
Μ	H03K 3/356104	<ul> <li>• • {using complementary field-effect transistors (<u>H03K 3/35625</u> takes precedence)}</li> </ul>
		WARNING
		Subgroups of H03K 3/356104 are not complete.
М	H03K 12/00	Producing pulses by distorting or combining sinusoidal waveforms (combining sinewaves using elements operating in a non-switching manner <u>H03B;</u> {limiting or clipping, e.g. <u>H03G 11/00</u> })
		<u>WARNING</u> Not complete, see also H03K 5/08, H03K 5/12
U	H03K 17/00	Electronic switching or gating, i.e. not by contact-making or -braking (selection of the stylus or auxiliary electrode in electric printing <u>B41J 2/405;</u> sample-and-hold arrangements <u>G11C 27/02;</u> switching or interrupting devices in waveguides <u>H01P;</u> gated amplifiers <u>H03F 3/72;</u> switching arrangements for exchange systems using static devices <u>H04Q 3/52</u> )
U	H03K 17/51	<ul> <li>characterised by the components used (<u>H03K 17/04</u> - <u>H03K 17/30</u>, <u>H03K 17/94</u> take precedence)</li> </ul>
U	H03K 17/56	<ul> <li>using semiconductor devices (using diodes <u>H03K 17/74</u>)</li> </ul>
U	H03K 17/72	<ul> <li>having more than two PN junctions; having more than three electrodes; having more than one electrode connected to the same conductivity region</li> </ul>
U	H03K 17/73	•••• for dc voltages or currents (H03K 17/722, H03K 17/735 take precedence)
М	H03K 17/731	· · · · {with inductive load}
		WARNING
		Not complete, see also H03K 17/73
		Not complete, see also hosix 1773
U	H03K 19/00	Logic circuits, i.e. having at least two inputs acting on one output; Inverting circuits {(inverting circuits used as delay elements H03K 5/13)}
U M	<b>H03K 19/00</b> H03K 19/0005	Logic circuits, i.e. having at least two inputs acting on one output; Inverting
		Logic circuits, i.e. having at least two inputs acting on one output; Inverting circuits {(inverting circuits used as delay elements <u>H03K 5/13)</u> }
		Logic circuits, i.e. having at least two inputs acting on one output; Inverting circuits {(inverting circuits used as delay elements H03K 5/13)} • {Modifications of input or output impedance}
		Logic circuits, i.e. having at least two inputs acting on one output; Inverting circuits {(inverting circuits used as delay elements H03K 5/13)} • {Modifications of input or output impedance} WARNING
М	H03K 19/0005	Logic circuits, i.e. having at least two inputs acting on one output; Inverting circuits {(inverting circuits used as delay elements H03K 5/13)}   • {Modifications of input or output impedance}  WARNING Not complete, see also H03K 19/017545
M	H03K 19/0005 H03K 19/003	<ul> <li>Logic circuits, i.e. having at least two inputs acting on one output; Inverting circuits {(inverting circuits used as delay elements H03K 5/13)}</li> <li>{Modifications of input or output impedance}</li> <li>WARNING Not complete, see also H03K 19/017545</li> <li>Modifications for increasing the reliability {for protection}</li> <li>{Modifications for compensating variations of temperature, supply voltage or other physical parameters}</li> <li>WARNING</li> </ul>
M	H03K 19/0005 H03K 19/003	<ul> <li>Logic circuits, i.e. having at least two inputs acting on one output; Inverting circuits {(inverting circuits used as delay elements H03K 5/13)}</li> <li>(Modifications of input or output impedance)</li> <li>WARNING Not complete, see also H03K 19/017545</li> <li>Modifications for increasing the reliability {for protection}</li> <li>{Modifications for compensating variations of temperature, supply voltage or other physical parameters}</li> </ul>
M	H03K 19/0005 H03K 19/003	<ul> <li>Logic circuits, i.e. having at least two inputs acting on one output; Inverting circuits {(inverting circuits used as delay elements H03K 5/13)}</li> <li>{Modifications of input or output impedance}</li> <li>WARNING Not complete, see also H03K 19/017545</li> <li>Modifications for increasing the reliability {for protection}</li> <li>{Modifications for compensating variations of temperature, supply voltage or other physical parameters}</li> <li>WARNING</li> </ul>
M U M	H03K 19/0005 H03K 19/003 H03K 19/00369	<ul> <li>Logic circuits, i.e. having at least two inputs acting on one output; Inverting circuits {(inverting circuits used as delay elements H03K 5/13)}</li> <li>{Modifications of input or output impedance}</li> <li>WARNING Not complete, see also H03K 19/017545</li> <li>Modifications for increasing the reliability {for protection}</li> <li>{Modifications for compensating variations of temperature, supply voltage or other physical parameters}</li> <li>WARNING Not complete, see also H03K 19/00</li> <li>Coupling arrangements; Interface arrangements (interface arrangements for</li> </ul>
M U M	H03K 19/0005 H03K 19/003 H03K 19/00369 H03K 19/0175	<ul> <li>Logic circuits, i.e. having at least two inputs acting on one output; Inverting circuits ((inverting circuits used as delay elements H03K 5/13))</li> <li>(Modifications of input or output impedance)</li> <li>WARNING Not complete, see also H03K 19/017545</li> <li>Modifications for increasing the reliability {for protection}</li> <li>{Modifications for compensating variations of temperature, supply voltage or other physical parameters}</li> <li>WARNING Not complete, see also H03K 19/00</li> <li>Coupling arrangements; Interface arrangements (interface arrangements for digital computers G06F 3/00, G06F 13/00)</li> </ul>
М И И U	H03K 19/0005 H03K 19/003 H03K 19/00369 H03K 19/0175 H03K 19/017509	<ul> <li>Logic circuits, i.e. having at least two inputs acting on one output; Inverting circuits ((inverting circuits used as delay elements H03K 5/13))</li> <li>(Modifications of input or output impedance)</li> <li>WARNING</li> <li>Not complete, see also H03K 19/017545</li> <li>Modifications for increasing the reliability {for protection}</li> <li>(Modifications for compensating variations of temperature, supply voltage or other physical parameters)</li> <li>WARNING</li> <li>Not complete, see also H03K 19/00</li> <li>Coupling arrangements; Interface arrangements (interface arrangements for digital computers <u>G06F 3/00</u>, <u>G06F 13/00</u>)</li> <li>(Interface arrangements)</li> </ul>
М И И U	H03K 19/0005 H03K 19/003 H03K 19/00369 H03K 19/0175 H03K 19/017509	<ul> <li>Logic circuits, i.e. having at least two inputs acting on one output; Inverting circuits ((inverting circuits used as delay elements H03K 5/13))</li> <li>(Modifications of input or output impedance)</li> <li>WARNING</li> <li>Not complete, see also H03K 19/017545</li> <li>Modifications for increasing the reliability (for protection)</li> <li>(Modifications for compensating variations of temperature, supply voltage or other physical parameters)</li> <li>WARNING</li> <li>Not complete, see also H03K 19/00</li> <li>Coupling arrangements; Interface arrangements (interface arrangements for digital computers G06F 3/00, G06F 13/00)</li> <li>(Interface arrangements)</li> <li>(using a combination of bipolar and field effect transistors [BIFET])</li> <li>WARNING</li> </ul>
М И И И М	H03K 19/0005 H03K 19/003 H03K 19/00369 H03K 19/0175 H03K 19/017509 H03K 19/017518	<ul> <li>Logic circuits, i.e. having at least two inputs acting on one output; Inverting circuits used as delay elements H03K 5/13);</li> <li>{Modifications of input or output impedance}</li> <li>WARNING Not complete, see also H03K 19/017545</li> <li>Modifications for increasing the reliability {for protection}</li> <li>{Modifications for compensating variations of temperature, supply voltage or other physical parameters}</li> <li>WARNING Not complete, see also H03K 19/00</li> <li>Coupling arrangements; Interface arrangements (interface arrangements for digital computers <u>G06F 3/00</u>, <u>G06F 13/00</u>)</li> <li>{Interface arrangements}</li> <li>• {using a combination of bipolar and field effect transistors [BIFET]}</li> <li>WARNING Not complete, see also H03K 19/018, H03K 19/0185</li> </ul>

U	H03K 19/018	<ul> <li>using bipolar transistors only</li> </ul>
U	H03K 19/01806	
М	H03K 19/01812	<ul> <li>• • {with at least one differential stage}</li> </ul>
		WARNING
		Not complete, see also H03K 19/01806
U	H03K 19/0185	<ul> <li>using field effect transistors only</li> </ul>
U	H03K 19/018507	
М	H03K 19/018521	<ul> <li>• • {of complementary type, e.g. CMOS}</li> </ul>
		WARNING
		Not complete, see also H03K 19/018507
М	H03K 19/018535	• • • {of Schottky barrier type [MESFET]}
		WARNING
		Not complete, see also H03K 19/018507
U	H03K 25/00	Pulse counters with step-by-step integration and static storage; Analogous frequency dividers
U	H03K 25/02	<ul> <li>comprising charge storage, e.g. capacitor without polarisation hysteresis</li> </ul>
М	H03K 25/04	<ul> <li>using auxiliary pulse generator triggered by the incoming pulses</li> </ul>
		WARNING
		Not complete, see also H03K 25/02

### Project: MP0146 (H03L)

U	H03L 7/00	Automatic control of frequency or phase; Synchronisation (tuning of resonant circuits in general <u>H03J</u> ; synchronising in digital communication systems, <u>see</u> the relevant groups in class <u>H04</u> )
U	H03L 7/06	<ul> <li>using a reference signal applied to a frequency- or phase-locked loop</li> </ul>
U	H03L 7/08	<ul> <li>Details of the phase-locked loop</li> </ul>
U	H03L 7/099	<ul> <li>concerning mainly the controlled oscillator of the loop</li> </ul>
U	H03L 7/0995	<ul> <li>• • {the oscillator comprising a ring oscillator}</li> </ul>
М	H03L 7/0998	· · · · {using phase interpolation}
		WARNING

Not complete, see also H03L 7/0995

### Project: MP0146 (H04B)

 U
 H04B 1/00
 Details of transmission systems, not covered by a single one of groups

 H04B 3/00 - H04B 13/00; Details of transmission systems not characterised
 by the medium used for transmission (tuning resonant circuits H03J)

 NOTE
 In this group, group H04B 1/0003 takes precedence over groups

 H04B 1/005 - H04B 1/76

Μ	H04B 1/0003	<ul> <li>{Software-defined radio [SDR] systems, i.e. systems wherein components typically implemented in hardware, e.g. filters or modulators/demodulators, are implented using software, e.g. by involving an AD or DA conversion stage such that at least part of the signal processing is performed in the digital domain (digital baseband systems <u>H04L 25/00</u>; digital modulation/demodulation <u>H04L 27/00</u>; CDMA <u>H04B 1/707</u>; TDMA <u>H04B 7/2643</u>; image transmission <u>H04N 5/00</u>)}</li> </ul>
		WARNING
		Groups H04B 1/0003 and subgroups are not complete pending a reorganisation. See also group H04B 1/406
М	H04B 1/59	Responders; Transponders (relay systems H04B 7/14)
		WARNING
		contains no documents, see provisionally G01S 13/74
U	H04B 1/69	Spread spectrum techniques
Μ	H04B 1/692	<ul> <li>Hybrid techniques using combinations of two or more spread spectrum techniques</li> </ul>
		WARNING
		Not complete pending the completion of reclassification; see also group H04B 1/69
Μ	H04B 1/7163	using impulse radio
		WARNING
		As from 01/04/2011 documents relating to pulse-related aspects are classified in H04B 1/717 and the backlog for such documents is continuously being reclassified from H04B 1/7163
М	H04B 1/717	Pulse-related aspects
		WARNING
		Not complete pending the completion of reclassification; see also group H04B 1/7163
М	H04B 1/72	Circuits or components for simulating antennas, e.g. dummy antennas
		WARNING
		contains no documents, see H03H, e.g. H03H 7/38, H03H 11/28
U	H04B 3/00	Line transmission systems (combined with near-field transmission systems <u>H04B 5/00;</u> constructional features of cables <u>H01B 11/00</u> )
U	H04B 3/02	Details
Μ	H04B 3/03	<ul> <li>Hybrid circuits (for transceivers <u>H04B 1/52</u>, <u>H04B 1/58</u>; hybrid junctions of the waveguide type <u>H01P 5/16</u>)</li> </ul>
		WARNING
		not used, see H04B 1/52, H04B 1/58
U	H04B 7/00	Radio transmission systems, i.e. using radiation field ( <u>H04B 10/00,</u> <u>H04B 15/00</u> take precedence)
U	H04B 7/02	<ul> <li>Diversity systems; Multi-antenna system, i.e. transmission or reception using multiple antennas (RAKE receivers <u>H04B 1/7115</u>)</li> </ul>
		WARNING
		Group H04B 7/02 is impacted by reclassification into group H04B 1/7115.

		Groups <u>H04B 7/02</u> and <u>H04B 1/7115</u> should be considered in order to perform a complete search.
U	H04B 7/04	<ul> <li>using two or more spaced independent antennas</li> </ul>
М	H04B 7/0413	· · · MIMO systems
		WARNING
		Group H04B 7/0413 and subgroups are not complete pending reorganisation. See also H04W 52/42
U	H04B 10/00	Transmission systems employing electromagnetic waves other than radio- waves, e.g. infrared, visible or ultraviolet light, or employing corpuscular radiation, e.g. quantum communication
		NOTE
		Groups <u>H04B 10/03</u> , <u>H04B 10/07</u> , <u>H04B 10/11</u> , <u>H04B 10/25</u> , <u>H04B 10/27</u> , <u>H04B 10/29</u> and <u>H04B 10/40</u> - <u>H04B 10/90</u> , and their subgroups are based on IPC2013.01
U	H04B 10/11	<ul> <li>Arrangements specific to free-space transmission, i.e. transmission through air or vacuum</li> </ul>
U	H04B 10/114	<ul> <li>Indoor or close-range type systems</li> </ul>
М	H04B 10/116	
		WARNING
		This group is not complete pending reclassification; see also H04B 10/114 and its other subgroups
М	H04B 10/70	Photonic quantum communication
		WARNING
		This group is not complete pending reclassification; see also H04B 10/30
Μ	H04B 10/90	<ul> <li>Non-optical transmission systems, e.g. transmission systems employing non- photonic corpuscular radiation</li> </ul>
		WARNING
		This group is not complete pending reclassification; see also H04B 10/30

# Project: MP0146 (H04M)

U	H04M 1/00	Substation equipment, e.g. for use by subscribers; Analogous equipment at exchanges (prepayment telephone coin boxes <u>H04M 17/00</u> ; current supply arrangements <u>H04M 19/00</u> ; {telephone sets particularly adapted for data transmission <u>H04M 11/066</u> ; network interface devices <u>H04Q 1/028</u> })
U	H04M 1/02	Constructional features of telephone sets
Μ	H04M 1/0202	<ul> <li>{Portable telephone sets, e.g. cordless phones, mobile phones or bar type handsets (constructional features of telephone transmitters or receivers, e.g. of speakers or microphones <u>H04M 1/03</u>; mounting of the dialing module <u>H04M 1/23</u>; with protection against RF exposure <u>H04B 1/3838</u>)}</li> </ul>
		<u>WARNING</u> Groups H04M 1/0249 - H04M 1/0285 are not complete pending a reorganisation. See also group H04M 1/0202
U	H04M 7/00	Interconnection arrangements between switching centres (transmission arrangements in general <u>H04B;</u> {interconnection arrangements between PSTN/ISDN switching centres H04Q 3/00})

Μ	H04M 7/06	<ul> <li>using auxiliary connections for control or supervision {, e.g. where the auxiliary connection is a signalling system number 7 link}</li> </ul>
		WARNING Not complete, see also other subgroups of H04M 7/00
Μ	H04M 7/12	<ul> <li>for working between exchanges having different types of switching equipment, e.g. power-driven and step by step, decimal and non-decimal, {circuit-switched and packet-switched, i.e. gateway arrangements}</li> <li>WARNING Not complete, see also other subgroups of H04M 7/00</li> </ul>
М	H04M 7/14	<ul> <li>in systems involving main and subordinate switching centres</li> </ul>
		WARNING
		Not complete, see also other subgroups of H04M 7/00
U	H04M 2242/00	Special services or facilities
М	H04M 2242/22	<ul> <li>Automatic class or number identification arrangements</li> </ul>
		WARNING
		This group is no longer used for classification of new documents as from November 20, 2009. The backlog of this group is being continuously reclassified to H04M 3/42034 and H04M 3/42085
Pro	ject: MP0146 (H04N	0
	,	,
Μ	H04N 3/14	<ul> <li>• by means of electrically scanned solid-state devices (for picture generation <u>H04N 5/335</u>)</li> </ul>
М	H04N 3/14	
Μ	H04N 3/14	<u>H04N 5/335</u> )
M	H04N 3/14 H04N 5/78	H04N 5/335) WARNING
		<ul> <li>H04N 5/335)</li> <li>WARNING Constructional details 97DP12C2B</li> <li>- using magnetic recording (H04N 5/91 takes precedence {; mechanical details</li> </ul>
U	H04N 5/78	<ul> <li>H04N 5/335)</li> <li>WARNING</li> <li>Constructional details 97DP12C2B</li> <li>• using magnetic recording (H04N 5/91 takes precedence {; mechanical details in so far as non typical for television circuitry G11B 5/00})</li> </ul>
U U	H04N 5/78 H04N 5/782	<ul> <li>H04N 5/335)</li> <li>WARNING</li> <li>Constructional details 97DP12C2B</li> <li>• using magnetic recording (H04N 5/91 takes precedence {; mechanical details in so far as non typical for television circuitry G11B 5/00})</li> <li>• • on tape</li> </ul>
U U	H04N 5/78 H04N 5/782	<ul> <li>H04N 5/335)</li> <li>WARNING</li> <li>Constructional details 97DP12C2B</li> <li>• using magnetic recording (H04N 5/91 takes precedence {; mechanical details in so far as non typical for television circuitry G11B 5/00})</li> <li>• on tape</li> <li>• • with rotating magnetic heads</li> <li>WARNING</li> </ul>
U U M	H04N 5/78 H04N 5/782 H04N 5/7824	H04N 5/335) WARNING Constructional details 97DP12C2B • using magnetic recording (H04N 5/91 takes precedence {; mechanical details in so far as non typical for television circuitry G11B 5/00}) • • on tape • • • with rotating magnetic heads WARNING Not complete, see also H04N 5/782 • • • • involving transversal scanning of the magnetic tape WARNING
U U M	H04N 5/78 H04N 5/782 H04N 5/7824	<ul> <li>H04N 5/335)</li> <li>WARNING</li> <li>Constructional details 97DP12C2B</li> <li>• using magnetic recording (H04N 5/91 takes precedence {; mechanical details in so far as non typical for television circuitry G11B 5/00})</li> <li>• on tape</li> <li>• • with rotating magnetic heads</li> <li>WARNING</li> <li>Not complete, see also H04N 5/782</li> <li>• • • involving transversal scanning of the magnetic tape</li> </ul>
U U M	H04N 5/78 H04N 5/782 H04N 5/7824	H04N 5/335) WARNING Constructional details 97DP12C2B • using magnetic recording (H04N 5/91 takes precedence {; mechanical details in so far as non typical for television circuitry G11B 5/00}) • • on tape • • • with rotating magnetic heads WARNING Not complete, see also H04N 5/782 • • • • involving transversal scanning of the magnetic tape WARNING
U U M	H04N 5/78 H04N 5/782 H04N 5/7824 H04N 5/7828	<ul> <li>H04N 5/335)</li> <li>WARNING Constructional details 97DP12C2B</li> <li>• using magnetic recording (H04N 5/91 takes precedence {; mechanical details in so far as non typical for television circuitry G11B 5/00})</li> <li>• • on tape</li> <li>• • • with rotating magnetic heads</li> <li>WARNING Not complete, see also H04N 5/782</li> <li>• • • • involving transversal scanning of the magnetic tape</li> <li>WARNING Not complete, see also H04N 5/782</li> <li>• • • • involving transversal scanning of the magnetic tape</li> <li>WARNING Not complete, see also H04N 5/782</li> <li>• • • • using holographic recording (H04N 5/91 takes precedence)</li> <li>WARNING</li> </ul>
U U M M	H04N 5/78 H04N 5/782 H04N 5/7824 H04N 5/7828	<ul> <li>H04N 5/335)</li> <li>WARNING Constructional details 97DP12C2B</li> <li>• using magnetic recording (H04N 5/91 takes precedence {; mechanical details in so far as non typical for television circuitry G11B 5/00})</li> <li>• on tape</li> <li>• • with rotating magnetic heads</li> <li>WARNING Not complete, see also H04N 5/782</li> <li>• • • involving transversal scanning of the magnetic tape</li> <li>WARNING Not complete, see also H04N 5/782</li> <li>• using holographic recording (H04N 5/91 takes precedence)</li> <li>WARNING Not complete, see also H04N 5/76, H04N 5/7605, H04N 5/84, H04N 5/85</li> </ul>
U U M	H04N 5/78 H04N 5/782 H04N 5/7824 H04N 5/7828	<ul> <li>H04N 5/335)</li> <li>WARNING Constructional details 97DP12C2B</li> <li>• using magnetic recording (H04N 5/91 takes precedence {; mechanical details in so far as non typical for television circuitry G11B 5/00})</li> <li>• • on tape</li> <li>• • • with rotating magnetic heads</li> <li>WARNING Not complete, see also H04N 5/782</li> <li>• • • • involving transversal scanning of the magnetic tape</li> <li>WARNING Not complete, see also H04N 5/782</li> <li>• • • • involving transversal scanning of the magnetic tape</li> <li>WARNING Not complete, see also H04N 5/782</li> <li>• • • • using holographic recording (H04N 5/91 takes precedence)</li> <li>WARNING</li> </ul>

# Project: MP0146 (H04R)

U	H04R 25/00	Deaf-aid sets {providing an auditory perception; Electric tinnitus maskers providing an auditory perception}(constructions of transducers <u>per se</u> <u>H04R 9/00 - H04R 23/00</u> ; {non-electric hearing aids <u>A61F 11/008</u> ; replacing direct auditory perception by another kind of perception <u>A61F 11/04</u> ; electrical stimulation of auditory nerves to promote the auditory function <u>A61N 1/36036</u> }; structural combination with spectacle frames <u>G02C 11/06</u> ; processing of speech signals <u>G10L 21/00</u> ) <u>NOTE</u>
		Classification should be directed to groups <u>H04R 25/02</u> , <u>H04R 25/04</u> or <u>H04R 25/50</u> and its subgroups, if and only if the technical subject in consideration cannot be classified elsewhere under the main group <u>H04R 25/00</u>
М	H04R 25/43	<ul> <li>{Electronic input selection or mixing based on input signal analysis, e.g. mixing or selection between microphone and telecoil or between microphones with different directivity characteristics (H04R 25/407 takes precedence)}</li> </ul>
		WARNING
		Not complete pending a reorganization, see also H04R 25/00
U	H04R 25/60	<ul> <li>{Mounting or interconnection of hearing aid parts, e.g. inside tips or housing. to ossicles (ear wax retarders, e.g. their mounting <u>H04R 25/654</u>)}</li> </ul>
Μ	H04R 25/608	<ul> <li>{Apparatus or processes specially adapted for mounting, assembling or interconnecting hearing aid parts inside tips, moulds or housings}</li> </ul>
		WARNING Not complete pending a reorganization, see also H04R 25/60 or its other subgroups
U	H04R 25/65	<ul> <li>{Housing parts, e.g. shells, tips or moulds, or their manufacture}</li> </ul>
U	H04R 25/652	<ul> <li>• {Ear tips; Ear moulds}</li> </ul>
Μ	H04R 25/656	<ul> <li>• {Non-customized, universal ear tips, i.e. ear tips which are not specifically adapted to the size or shape of the ear or ear canal}</li> </ul>
		WARNING Not complete pending a reorganization, see also H04R 25/652
М	H04R 25/658	<ul> <li>• {Manufacture of housing parts}</li> </ul>
		<u>WARNING</u> Not complete pending a reorganization, see also H04R 25/65 or its other subgroups
Pro	ject: MP0146 in adc	lition to MP0380 (H04R)

M H04R 25/75 • {Electric tinnitus maskers providing an auditory perception <del>(evaluating</del> tinnitus A61B 5/128; devices or methods to cause a change in the state of consciousness A61M 21/00; masking sound in general G10K 11/175)} <u>WARNING</u> Not complete pending a reorganization, see also H04R 25/00

### Project: MP0146 (H04W)

М	H04W 80/02	Data link layer protocols
		WARNING This group is used only for indicating additional information when it is of interest
		for search
М	H04W 80/04	Network layer protocols, e.g. mobile IP [Internet Protocol]
		WARNING
		This group is used only for indicating additional information when it is of interest for search
М	H04W 80/045	<ul> <li>• {involving different protocol versions, e.g. MIPv4 and MIPv6}</li> </ul>
		WARNING
		This group is used only for indicating additional information when it is of interest for search

## Project: MP0149 (H03M)

M H03M

CODING; DECODING; CODE CONVERSION IN GENERAL (using fluidic means F15C 4/00; optical analogue/digital converters G02F 7/00; coding, decoding or code conversion, specially adapted for particular applications, see the relevant subclasses, e.g. G01D, G01R, G06F, G06T, G09G, G10L, G11B, G11C, H04B, H04L, H04M, H04N; ciphering or deciphering for cryptography or other purposes involving the need for secrecy G09C)

#### WARNINGS

1. The following IPC groups are not in the CPC scheme. The subject matter for these IPC groups is classified in the following CPC groups:

H03M 7/32	covered by	<u>H03M 7/3002</u> , <u>H03M 7/3004</u> , <u>H03M 7/3006</u> , <u>H03M 7/3008</u> , <u>H03M 7/3011</u> , <u>H03M 7/3013</u> , <u>H03M 7/3015</u> , <u>H03M 7/3017</u> , <u>H03M 7/302</u> , <u>H03M 7/3024</u> , <u>H03M 7/3038</u> , <u>H03M 7/3035</u> , <u>H03M 7/3037</u> , <u>H03M 7/304</u> , <u>H03M 7/3042</u> , <u>H03M 7/3048</u>
H03M 7/34	covered by	H03M 7/3004, H03M 7/3051
H03M 7/36	covered by	H <del>03M 7/3004</del> H03M 7/3022, H03M 7/3026, H03M 7/3044
H03M 7/38	covered by	H03M 7/3004, H03M 7/3046
H03M 7/44	covered by	<u>H03M 7/40</u>

2. In this subclass non-limiting references (in the sense of paragraph 39 of the Guide to the IPC) may still be displayed in the scheme.

M H03M 1/00 Analogue/digital conversion; Digital/analogue conversion (conversion of analogue values to or from differential modulation H03M 3/00)

### NOTES

1. {Documents published prior to 1990 have been classified using the indexing scheme of group <u>H03M 2201/00</u>; these documents have not been classified in groups <u>H03M 1/001</u> - <u>H03M 1/88</u>.}

2. {In this main group, additional information has been classified systematically for documents published from 01-01-1990 on.}

Μ	H03M 1/002	<ul> <li>{with means Provisions or arrangements for saving power, e.g. by allowing a sleep mode, using lower supply voltage for downstream stages, using multiple clock domains or by selectively turning on stages when needed}</li> </ul>
U	H03M 1/06	<ul> <li>Continuously compensating for, or preventing, undesired influence of physical parameters (periodically, {e.g. by using stored correction values,} <u>H03M 1/10</u>)</li> </ul>
U	H03M 1/0617	<ul> <li>- {characterised by the use of methods or means not specific to a particular type of detrimental influence}</li> </ul>
U	H03M 1/0634	<ul> <li>• • {by averaging out the errors, e.g. using sliding scale}</li> </ul>
U	H03M 1/0636	· · · {in the amplitude domain}
Μ	H03M 1/0639	<ul> <li>• • • {using dither-, e.g. using triangular or sawtooth waveforms (for increasing resolution H03M 1/201)}</li> </ul>
Μ	H03M 1/0656	• • • {in the time domain, e.g. using intended jitter as a dither signal}
U	H03M 1/0675	<ul> <li>• • {using redundancy}</li> </ul>
U	H03M 1/069	<ul> <li>• • {by range overlap between successive stages or steps}</li> </ul>
Μ	H03M 1/0695	<ul> <li>• • • {using less than the maximum number of output states per stage or step, e.g. 1.5 per stage or less than 1.5 bit per stage type}</li> </ul>
U	H03M 1/08	<ul> <li>of noise {(<u>H03M 1/0617</u> takes precedence)}</li> </ul>
Μ	H03M 1/0827	<ul> <li>• • {of electromagnetic or electrostatic field noise, e.g. preventing crosstalk by shielding, by or optical isolation}</li> </ul>
Μ	H03M 1/12	<ul> <li>Analogue/digital converters ({<u>H03M 1/001</u> - <u>H03M 1/004</u>,} H03M 1/02 - <u>H03M 1/10</u> take precedence)</li> </ul>
U	H03M 1/1205	<ul> <li>• {Multiplexed conversion systems}</li> </ul>
Μ	H03M 1/122	<ul> <li>• • {Shared, i.e. using a single converter or a part thereof for multiple channels, e.g. a residue amplifier for multiple stages}</li> </ul>
Μ	H03M 1/124	<ul> <li>{Sampling or signal conditioning arrangements specially adapted for A/D converters (S/H circuits G11C 27/02; sample rate conversion H03H 17/0416, H03H 17/0621)}</li> </ul>
U	H03M 1/1245	<ul> <li>• • {Details of sampling arrangements or methods}</li> </ul>
Μ	H03M 1/125	• • • {Asynchronous-, i.e. free-running operation within each conversion cycle}
U	H03M 1/22	• pattern-reading type
U	H03M 1/24	<ul> <li>• using relatively movable reader and disc or strip</li> </ul>
Μ	H03M 1/245	<ul> <li>• • • {Constructional details of parts relevant to the encoding mechanism, e.g. pattern carriers, pattern sensors (for details of other parts, e.g. housings, casings or the like, see the relevant application subclasses of G01, H01)}</li> </ul>
U	H03M 1/28	• • • with non-weighted coding
U	H03M 1/30	• • • • • incremental
Μ	H03M 1/301	<ul> <li>•••• {Constructional details of parts relevant to the encoding mechanism, e.g. pattern carriers, pattern sensors (details of housings, casings or the like, see the relevant application subclasses of G01, H01)}</li> </ul>
U	H03M 1/34	<ul> <li>Analogue value compared with reference values (<u>H03M 1/48</u> takes precedence)</li> </ul>
Μ	H03M 1/36	<ul> <li>• simultaneously only, i.e. parallel type {(thermometer to binary encoders H03M 7/165)}</li> </ul>
Μ	H03M 1/50	<ul> <li>with intermediate conversion to time interval (<u>H03M 1/64</u> takes precedence, time-to-digital converters G04F 10/005)</li> </ul>
Μ	H03M 1/66	<ul> <li>Digital/analogue converters ({<u>H03M 1/001</u> - H03M 1/004,} H03M 1/02 - H03M 1/10</li> <li>H03M 1/10</li> <li>take precedence)</li> </ul>
U	H03M 3/00	Conversion of analogue values to or from differential modulation

Μ	H03M 3/04	<ul> <li>Differential modulation with several bits {, e.g. differential pulse code modulation [DPCM] {(<u>H03M 3/30</u> takes precedence; voice coding G10L 19/00; image coding H04N 19/00)}</li> </ul>
М	H03M 3/30	{Delta-sigma modulation}
		NOTE
		{In this group branch <u>H03M 3/30</u> , in the absence of an indication of to the contrary, classification is made in the first appropriate place.}
U	H03M 3/322	<ul> <li>• {Continuously compensating for, or preventing, undesired influence of physical parameters (periodically, e.g. by using stored correction values, <u>H03M 3/378</u>)}</li> </ul>
U	H03M 3/352	<ul> <li>• • {of deviations from the desired transfer characteristic}</li> </ul>
Μ	H03M 3/354	<ul> <li>• • • {at one point, i.e. by adjusting a single reference value, e.g. bias or gain error (gain setting for range control H03M 3/478)}</li> </ul>
U	H03M 3/38	<ul> <li>• {Calibration}</li> </ul>
Μ	H03M 3/382	<ul> <li>• • {at one point of the transfer characteristic, i.e. by adjusting a single reference value, e.g. bias or gain error (gain setting for range control H03M 3/478)}</li> </ul>
U	H03M 3/458	<ul> <li>{Analogue/digital converters using delta-sigma modulation as an intermediate step}</li> </ul>
Μ	H03M 3/494	<ul> <li>• • {Sampling or signal conditioning arrangements specially adapted for delta- sigma type analogue/digital conversion systems (sample/hold circuits G11C 27/02; sample rate conversion H03H 17/0416, H03H 17/0621)}</li> </ul>
U	H03M 3/50	<ul> <li>{Digital/analogue converters using delta-sigma modulation as an intermediate step (digital delta-sigma modulators per se H03M 7/3004)}</li> </ul>
М	H03M 3/508	<ul> <li>• • {Details relating to the interpolation process (interpolation filters in general H03H 17/0416, H03H 17/0621)}</li> </ul>
М	H03M 5/00	Conversion of the form of the representation of individual digits
		NOTE
		1. In groups H03M 5/02 - H03M 5/22, the last place priority rule is applied,
		i.e. at each hierarchical level, in the absence of an indication to the contrary, classification an invention is madeclassified in the last appropriate place.
М	H03M 7/00	<ul> <li>classification an invention is madeclassified in the last appropriate place.</li> <li>2. {In this main group, additional information has been classified systematically for documents published from 01-04-2004 onwards.}</li> <li>Conversion of a code where information is represented by a given sequence or number of digits to a code where the same information {or, similar information or a subset of} information} is represented by a different sequence or number of digits</li> </ul>
м	H03M 7/00	<ul> <li>classification an invention is madeclassified in the last appropriate place.</li> <li>2. {In this main group, additional information has been classified systematically for documents published from 01-04-2004 onwards.}</li> <li>Conversion of a code where information is represented by a given sequence or number of digits to a code where the same information {or, similar information or a subset of} information} is represented by a</li> </ul>
М	H03M 7/00	<ul> <li>classification an invention is madeclassified in the last appropriate place.</li> <li>2. {In this main group, additional information has been classified systematically for documents published from 01-04-2004 onwards.}</li> <li>Conversion of a code where information is represented by a given sequence or number of digits to a code where the same information {or, similar information or a subset of} information} is represented by a different sequence or number of digits</li> <li><u>NOTE</u></li> <li>1. In groups <u>H03M 7/001</u> - <u>H03M 7/50</u>, the last place priority rule is applied, i.e. at each hierarchical level, in the absence of an indication to the contrary,</li> </ul>
М	H03M 7/00	<ul> <li>classification an invention is madeclassified in the last appropriate place.</li> <li>2. {In this main group, additional information has been classified systematically for documents published from 01-04-2004 onwards.}</li> <li>Conversion of a code where information is represented by a given sequence or number of digits to a code where the same information {or, similar information or a subset of} information} is represented by a different sequence or number of digits</li> <li>NOTE</li> <li>1. In groups H03M 7/001 - H03M 7/50, the last place priority rule is applied, i.e. at each hierarchical level, in the absence of an indication to the contrary, classification is made in the last appropriate place.</li> <li>2. In groups H03M 7/02 - H03M 7/50, in the absence of an indication to the</li> </ul>
M	H03M 7/00	<ul> <li>classification <i>an invention</i> is madeclassified in the last appropriate place.</li> <li>2. {In this main group, additional information has been classified systematically for documents published from 01-04-2004 onwards.}</li> <li>Conversion of a code where information is represented by a given sequence or number of digits to a code where the same information {or, similar information or a subset of} information} is represented by a different sequence or number of digits</li> <li><u>NOTE</u></li> <li>1. In groups <u>H03M 7/001</u> - <u>H03M 7/50</u>, the last place priority rule is applied, i.e. at each hierarchical level, in the absence of an indication to the contrary, classification is made in the last appropriate place.</li> <li>2. In groups <u>H03M 7/02</u> - <u>H03M 7/50</u>, in the absence of an indication to the contrary, an invention is classified in the last appropriate place.</li> <li>3. {In this main group, in the absence of an indication to the contrary, additional information has been classified systematically for documents published from</li> </ul>
		<ul> <li>classification an invention is madeclassified in the last appropriate place.</li> <li>2. {In this main group, additional information has been classified systematically for documents published from 01-04-2004 onwards.}</li> <li>Conversion of a code where information is represented by a given sequence or number of digits to a code where the same information {or, similar information or a subset of} information} is represented by a different sequence or number of digits</li> <li>NOTE</li> <li>1. In groups H03M 7/001 - H03M 7/50, the last place priority rule is applied, i.e. at each hierarchical level, in the absence of an indication to the contrary, classification is made in the last appropriate place.</li> <li>2. In groups H03M 7/02 - H03M 7/50, in the absence of an indication to the contrary, an invention is classified in the last appropriate place.</li> <li>3. {In this main group, in the absence of an indication to the contrary, additional information has been classified systematically for documents published from 01-04-2004 onwards.}</li> </ul>

Μ	H03M 7/20	<ul> <li>Conversion to or from n-out-of-m codes {(number-of-one counters G06F 7/607)}</li> </ul>
Μ	H03M 7/30	<ul> <li>Compression (speech analysis-synthesis for redundancy reduction <u>G10L 19/00</u>; for image communication <u>H04N</u>); Expansion; Suppression of unnecessary data, e.g. redundancy reduction <del>{(for data acquisition G06F 17/40; for image data processing G06T 9/00; redundancy reduction in data recording G11B 20/14; for transmission H04B 1/66)}</del></li> </ul>
М	H03M 7/3002	<ul> <li>• {Conversion to or from differential modulation}</li> </ul>
		<u>NOTE</u> {In group branch <u>H03M 7/3002</u> , additional information has been systematically classified for all documents.}
U	H03M 7/3004	<ul> <li>• • {Digital delta-sigma modulation}</li> </ul>
Μ	H03M 7/3015	<ul> <li>• • • {Structural details of digital delta-sigma modulators (H03M 7/3006, H03M 7/3013 take precedence)}</li> </ul>
U	H03M 7/60	<ul> <li>- {General implementation details not specific to a particular type of compression}</li> </ul>
U	H03M 7/6064	· · · {Selection of Compressor}
U	H03M 7/6082	· · · {Selection strategies}
М	H03M 7/6094	•••• {according to reasons other than compression rate and or data type}
U	H03M 7/70	<ul> <li>{Type of the data to be coded, other than image and sound}</li> </ul>
М	H03M 7/707	<ul> <li>• • {Structured documents, e.g. XML}</li> </ul>
Μ	H03M 11/00	Coding in connection with keyboards or like devices, i.e. coding of the position of operated keys (keyboard switch arrangements, structural association of coders and keyboards H01H 13/70, H03K 17/94) <u>NOTE</u> {In this main group additional information has been classified systematically for documents published from 01-01-2013 onwards.}
U	H03M 11/22	Static coding ( <u>H03M 11/26</u> takes precedence)
M	H03M 11/22	<ul> <li>static couling (<u>hosiwin rize</u> takes precedence)</li> <li>using analogue means {, e.g. by coding the states of multiple switches into a</li> </ul>
IVI		single multi-level analogue signal or by indicating the type of a device using the voltage level at a specific tap of a resistive divider}
Μ	H03M 13/00	Coding, decoding or code conversion, for error detection or error correction; Coding theory basic assumptions; Coding bounds; Error probability evaluation methods; Channel models; Simulation or testing of codes (error detection or error correction for analogue/digital, digital/ analogue or code conversion H03M 1/00 H03M 11/00 specially adapted for digital computers <u>G06F 11/08</u> , for information storage based on relative movement between record carrier and transducer G11B, e.g. G11B 20/18, for information storage based on relative go information storage based on relative movement between record carrier and transducer G11B, e.g. G11B 20/18, for information storage based on relative movement between record carrier and transducer G11C; specially adapted for digital computers G06F 11/08, for information storage based on relative movement between record carrier and transducer G11B, e.g. G11B 20/18, for static stores G11C; {use of error detection or error correction in transmission systems H04L 1/004, in television systems H04N 7/0357})
U	H03M 13/01	<ul> <li>Coding theory basic assumptions; Coding bounds; Error probability evaluation methods; Channel models; Simulation or testing of codes</li> </ul>
М	H03M 13/015	<ul> <li>{Simulation or testing of codes, e.g. bit error rate [BER] measurements}</li> </ul>
		<u>WARNING</u> H03M 13/015 and H03M 13/036 are not complete, see provisionally also H03M 13/01

U	H03M 13/03	<ul> <li>Error detection or forward error correction by redundancy in data representation, i.e. code words containing more digits than the source words</li> </ul>
U	H03M 13/05	<ul> <li>using block codes, i.e. a predetermined number of check bits joined to a predetermined number of information bits {(<u>H03M 13/2906</u> takes precedence)}</li> </ul>
М	H03M 13/07	Arithmetic codes
		WARNING Not complete, see also G06F 11/104
Μ	H03M 13/09	<ul> <li>Error detection only, e.g. using cyclic redundancy check [CRC] codes or single parity bit <del>{(error detection or correction by redundancy in data representation G06F 11/08)}</del></li> </ul>
		WARNING Not complete, see also G06F11/10B
U	H03M 13/13	• • • Linear codes
Μ	H03M 13/132	· · · {Algebraic geometric codes, e.g. Goppa codes}
		<u>WARNING</u> H03M 13/132 - H03M 13/138 are not complete, see provisionally also H03M 13/13
U	H03M 13/15	<ul> <li>Cyclic codes, i.e. cyclic shifts of codewords produce other codewords, e.g. codes defined by a generator polynomial, Bose-Chaudhuri- Hocquenghem [BCH] codes (<u>H03M 13/17</u> takes precedence)</li> </ul>
Μ	H03M 13/1505	•••• {Golay Codes}
		WARNING H03M 13/1505 is not complete, see provisionally also H03M 13/15
U	H03M 13/151	•••• {using error location or error correction polynomials}
М	H03M 13/1515	· · · · · {Reed-Solomon codes}
		<u>WARNING</u> H03M 13/1515 - H03M 13/1585 are not complete, see provisionally also H03M 13/15
Μ	H03M 13/158	<ul> <li></li></ul>
М	H03M 13/159	••••• {Remainder calculation, e.g. for encoding and syndrome calculation}
		<u>WARNING</u> H03M 13/159 and H03M 13/1595 are not complete, see provisionally also H03M 13/15
U	H03M 13/17	• • • Burst error correction, e.g. error trapping, Fire codes
Μ	H03M 13/175	· · · · {Error trapping or Fire codes}
		<u>WARNING</u> H03M 13/175 is not complete, see provisionally also H03M 13/17
Μ	H03M 13/19	<ul> <li>Single error correction without using particular properties of the cyclic codes, e.g. Hamming codes, extended or generalised Hamming codes</li> </ul>
		WARNING Not complete, see also G06F 11/1008
U	H03M 13/23	<ul> <li>using convolutional codes, e.g. unit memory codes</li> </ul>

Μ	H03M 13/235	<ul> <li>• • {Encoding of convolutional codes, e.g. methods or arrangements for parallel or block-wise encoding}</li> </ul>
		<u>WARNING</u> H03M 13/235 is not complete, see provisionally also H03M 13/23
U	H03M 13/29	<ul> <li>combining two or more codes or code structures, e.g. product codes, generalised product codes, concatenated codes, inner and outer codes</li> </ul>
Μ	H03M 13/2903	<ul> <li>• {Methods and arrangements specifically for encoding, e.g. parallel encoding of a plurality of constituent codes}</li> </ul>
		<u>WARNING</u> H03M 13/2903 is not complete, see provisionally also H03M 13/29
U	H03M 13/2906	<ul> <li>• {using block codes (<u>H03M 13/2957</u> takes precedence)}</li> </ul>
М	H03M 13/2909	• • {Product codes} <del>WARNING</del>
		H03M 13/2909 - H03M 13/293 are not complete, see provisionally also H03M 13/29
М	H03M 13/2933	<ul> <li>• {using a block and a convolutional code (<u>H03M 13/2957</u> takes precedence)}</li> </ul>
		WARNING
		H03M 13/2933 - H03M 13/2954 are not complete, see provisionally also H03M 13/29
U	H03M 13/2957	<ul> <li>• {Turbo codes and decoding}</li> </ul>
		<u>NOTE</u> This group <u>covers</u> also aspects when a component code is replaced by a
		non-coded constraint, e.g. like in joint turbo decoding and detection
М	H03M 13/2975	<ul> <li>• • {Judging correct decoding, e.g. iteration stopping criteria (stopping criteria for iterative decoding, see also H04L 1/0051)}</li> </ul>
М	H03M 13/33	<ul> <li>Synchronisation based on error coding or decoding -{(for transmission H04L 7/048)}</li> </ul>
		WARNING
		Groups <u>H03M 13/333</u> - <u>H03M 13/336</u> are not complete pending reclassification; see also this group
М	H03M 13/333	<ul> <li>{Synchronisation on a multi-bit block basis, e.g. frame synchronisation}</li> </ul>
		<u>WARNING</u> H03M 13/333 - H03M 13/336 are not complete, see provisionally also H03M 13/33
U	H03M 13/35	<ul> <li>Unequal or adaptive error protection, e.g. by providing a different level of protection according to significance of source information or by adapting the coding according to the change of transmission channel characteristics</li> </ul>
М	H03M 13/353	<ul> <li>• {Adaptation to the channel}</li> </ul>
		WARNING
		H03M 13/353 and H03M 13/356 are not complete, see provisionally also H03M 13/35
U	H03M 13/37	<ul> <li>Decoding methods or techniques, not specific to the particular type of coding provided for in groups H03M 13/03 - H03M 13/35</li> </ul>

Μ	H03M 13/3707	<ul> <li>{Adaptive decoding and hybrid decoding, e.g. decoding methods or techniques providing more than one decoding algorithm for one code}</li> </ul>
		<u>WARNING</u> H03M 13/3707 - H03M 13/3792 are not complete, see provisionally also H03M 13/37
U	H03M 13/39	<ul> <li>Sequence estimation, i.e. using statistical methods for the reconstruction of the original codes</li> </ul>
Μ	H03M 13/3905	<ul> <li>• {Maximum a posteriori probability [MAP] decoding andor approximations thereof based on trellis or lattice decoding, e.g. forward-backward algorithm, log-MAP decoding, max-log-MAP decoding}; MAP decoding also to be found in H04L 1/0055}</li> </ul>
М	H03M 13/3944	<ul> <li>• {for block codes, especially trellis or lattice decoding thereof}</li> </ul>
		WARNING
		H03M 13/3944 - H03M 13/3994 are not complete, see provisionally also H03M 13/39
Μ	H03M 13/42	<ul> <li>• • {MAP decoding or approximations thereof based on trellis or lattice decoding, e.g. forward-backward algorithm, log-MAP decoding, max-log- MAP decoding (see also H04L 1/0055)}</li> </ul>
U	H03M 13/45	<ul> <li>Soft decoding, i.e. using symbol reliability information (<u>H03M 13/41</u> takes precedence)</li> </ul>
М	H03M 13/451	<ul> <li>• • {using a set of candidate code words, e.g. ordered statistics decoding [OSD]}</li> </ul>
		WARNING
		H03M 13/451 - H03M 13/458 are not complete, see provisionally also H03M 13/45
Μ	H03M 13/61	<ul> <li>{Aspects and characteristics of methods and arrangements for error correction or error detection, not provided for otherwise}</li> </ul>
		WARNING
		H03M 13/61 - H03M 13/6597 are not complete, see provisionally also H03M 13/61, H03M 13/63 and H03M 13/65
U	H03M 13/63	<ul> <li>{Joint error correction and other techniques (<u>H03M 13/31</u> and <u>H03M 13/33</u> take precedence)}</li> </ul>
Μ	H03M 13/6306	<ul> <li>{Error control coding in combination with Automatic Repeat reQuest [ARQ] and diversity transmission, e.g. coding schemes for the multiple transmission of the same information or the transmission of incremental redundancy (H03M 13/3761, H03M 13/3769 and H03M 13/635 take precedence; ARQ schemes in general H04L 1/18)}</li> </ul>
U	H03M 13/65	<ul> <li>{Purpose and implementation aspects}</li> </ul>
М	H03M 13/6575	<ul> <li>• {Implementations based on combinatorial logic, e.g. booleanBoolean circuits}</li> </ul>
м	H03M 2201/00	Indexing scheme relating to A/D or D/A conversion
		NOTE
		As this scheme is obtained by conversion from the former deep indexing system
		<ul> <li>RM03 it reflects the several editions of that system in the following way:</li> <li>code symbols added at subsequent editions are indicated by numbers [2]</li> </ul>
		or [3] in square brackets, the code symbols present from the first edition on
		<ul> <li>having no indication;</li> <li>headers which did not have a code symbol in the RM03 system and thus</li> </ul>
		could not be assigned to documents, but which need a code symbol in the

ICO system for the purpose of a correct hierarchical order, are indicated by the symbol [H];

 the edition according to which a document has been indexed is indicated by the assignment of one of code symbols H03M 2201/01 through H03M 2201/03 to that document. In principle, therefore, a search should include a separate combination of appropriate code symbols for each edition, each combination including one of codes H03M 2201/01 through H03M 2201/03. On an incidental base, however, code symbols from later editions have been assigned to documents indexed according to an earlier edition.

#### WARNING

The use of this indexing scheme has been discontinued for all documents published later than 1989.

M H03M 2201/80 • Components, circuits or devices used with or within A/D or D/A converters but not disclosed in detail and not provided for elsewhere [H]

## NOTE

The codes of this subgroup should be assigned only insofar as the component, circuit or device concerned is not usual for the type of converter concerned, e.g. an intermediate time interval type A/D converter usually has a counter which therefore need not be indexed in this subgroup.

The indexing codes of group branch <u>H03M 2201/80</u> have been allocated only insofar as the component, circuit or device concerned is not usual for the type of converter concerned, e.g. an intermediate time interval type A/D converter usually has a counter which therefore has not separately been indexed in this group branch.

## Project: MP0244 (G01T)

U	G01T 1/00	Measuring X-radiation, gamma radiation, corpuscular radiation, or cosmic radiation ( <u>G01T 3/00</u> , <u>G01T 5/00</u> take precedence)
U	G01T 1/16	<ul> <li>Measuring radiation intensity (<u>G01T 1/29</u> takes precedence {; self-powered detectors <u>G01T 3/006</u>; using an ionisation chamber filled with a liquid or solid, e.g. frozen liquid, dielectric <u>G01T 3/008</u>})</li> </ul>
U	G01T 1/20	with scintillation detectors
М	G01T 1/2002	<ul> <li>• • {Optical details, e.g. refecting reflecting or diffusing layers}</li> </ul>

# Project: MP0244 (G06K)

U	G06K 19/00	Record carriers for use with machines and with at least a part designed to carry digital markings (record carriers adapted for controlling specific machines, <u>see</u> the appropriate subclass for the machine, e.g. <u>B23Q</u> , <u>D03C</u> , <u>G10F</u> , <u>H04L</u> ; form printing <u>B41</u> ; file cards <u>B42F 19/00</u> ; record carriers in general <u>G11</u> )
U	G06K 19/06	<ul> <li>characterised by the kind of the digital marking, e.g. shape, nature, code</li> </ul>
U	G06K 19/067	<ul> <li>Record carriers with conductive marks, printed circuits or semiconductor circuit elements, e.g. credit or identity cards {also with resonating or responding marks without active components}</li> </ul>
U	G06K 19/07	• • with integrated circuit chips
U	G06K 19/073	<ul> <li>Special arrangements for circuits, e.g. for protecting identification code in memory (protection against unauthorised use of computer memories <u>G06F 12/14</u>)</li> </ul>
U	G06K 19/07309	<ul> <li>••• {Means for preventing undesired reading or writing from or onto record carriers}</li> </ul>

Μ	G06K 19/07372	<ul> <li>•••• {by detecting tampering with the circuit (tampering detection for semi- conductor circuits in general H01L 23/58)}</li> </ul>
Pro	ject: MP0247 (A610	G)
М	A61G 7/00	Beds specially adapted for nursing; Devices for lifting patients or disabled persons (equipment for beds, treatment tables, floor frames or the like for extending or stretching A61F5/045 {takes precedence}; stretchers with facilities for picking up patients or disabled persons A61G 1/003)
Pro	ject: MP0247 (A610	2)
М	A61Q 7/00	Preparations for affecting hair growth <del>(preparations with therapeutic</del> activity A61P 17/14)
Pro	ject: MP0247 (B230	:)
U	B23C 3/00	Milling particular work; Special milling operations; Machines therefor (milling gear-teeth <u>B23F</u> , {heat assisted machining <u>B23P 25/00</u> })
Μ	B23C 3/10	<ul> <li>Relief milling Relieving by milling (lathes or turning devices for relieving B23B5/42)</li> </ul>
Pro	ject: MP0306 (B01J	)
	D01 1 21/00	Cotalysta comprising hydrides, coordination complexes or ergenic

 U
 B01J 31/00
 Catalysts comprising hydrides, coordination complexes or organic compounds (catalyst compositions used only in polymerisation reactions C08 {; catalytic antibodies C12N 9/0002})

NOTES

1. Group <u>B01J 31/003</u> takes precedence over groups <u>B01J 31/02</u> - <u>B01J 31/24</u> (catalytic antibodies <u>C12N 9/0002</u>)

2. In this group, the following terms or expressions are used with the meanings indicated:

• "Organic compound" a compound in which carbon is bonded to

(1)a second carbon;
(2)at least one atom of hydrogen or halogen; or
(3)pitrogen by a single or double bond; except of

(3)nitrogen by a single or double bond; except cyanic acid (HOCN), cyanogen (NCCN), cyanamide (H2NCN), cyanogen halide (HalCN), hydrocyanic acid (HCN) isocyanic acid (HNCO) fulminic acid (HCNO)and metal carbides (MCCM) (catalysts comprising any of these exceptions or their salts <u>B01J 27/20</u> - <u>B01J 27/26</u>.

- "Organometallic compounds" includes all organic compounds wherein a metal or metalloid atom is bonded directly to a carbon fragment, the latter being formally anionic, no further neutral ligands being coordinated to the metal and the compound requiring no further cations for charge balance; e.g. M(1-CR3)n with M= main group metal, n= valency of metal and R= H or hydrocarbyl. (Compounds comprising anionic organonitrogen, organooxygen and organosulfur fragments, excluding carboxylates, with a metal bonded to these heteroatoms B01J 31/02 - B01J 31/0254; unsaturated carbon fragments in combination with transition metals B01J 31/2282.
- "Coordination complexes" includes any donor-acceptor compounds or complex ions comprising organic or inorganic, anionic or neutral Lewis basic ligands, attached to a Lewis acid central metal or metal ion through one or several complexing donor atoms with at least one lone-pair of electrons, e.g. N, O, S, P, to provide at least a Sigma-bond. Typically the maximum number of same or different ligands according to the coordination number, spatial requirements of the ligand and electronic configuration of the metal is bound in a predictable geometry. Complexes of neutral, cationic or anionic hydrocarbon ligands with delocalised charge and/or bonding site,

e.g. Pd-olefin complexes or metallocenes, are also included (the following groups take precedence: simple hydrocarbyl metal compounds, e.g. of main group metal(loids) B01J 31/12; oxoacid salts B01J 31/04 - B01J 31/10; other compounds comprising anionic organonitrogen, organooxygen and organosulfur fragments with a metal bonded to these heteroatoms <u>B01J 31/02</u> - <u>B01J 31/0254</u>.

- "Organometallic complexes" includes all coordination complexes comprising a M-C bond, e.g. metal carbonyls (complex cvanides such as M4[Fe(CN)6] B01J 27/26 ). Included are furthermore complexes which are not strictly organometallic per se, e.g. comprising only N, O, S and/or P coordinated ligands, but are described as involving, or known to involve, organometallic intermediates and/or transition states during use, e.g. Group 8-10 metal complexes for a variety of catalytic reactions or steps thereof, such as oxidative addition, e.g. of ArX, hydrogenation, carbonylation, epoxidation, etc.
- "Organic complexes" includes all coordination complexes comprising organic ligands (groups B01J 31/1608 - B01J 31/1895 take precedence).
- "Polymer" includes any macromolecular substance (typically M>10000 g/ mol), which comprises repeating units made up of one or several kinds of atoms or groups of atoms, which are identically connected to one another. Oligomers, i.e. more than two identical repeating units connected to one another and typically 500<M<10000 g/mol, are grouped with the respective polymers (polymers per se C08).

3. In this group, if two or more aspects are of equal importance, these are each classified, e.g. two components in a catalyst system such as:

- support and pendant or otherwise immobilised coordination complex; or
- · coordination complex and essential additive.

However, if two components, even if separately added, are described as forming, or known to form, a coordination complex, only the latter is classified, e.g. phosphine and Group 8-10 metal such as rhodium. The groups B01J 31/26 - B01J 31/38 are not to be used for the central metals in coordination complexes but rather for separately added further inorganic ingredients. Each specifically disclosed alternative is separately classified, i.e. specifically disclosed by ways of worked examples, specific claims and/or explicit alternatives therein.

4. {When classifying in B01J 31/00, additional information for the catalysts is provided as follows:

(4-1) the specifically disclosed intended uses are indexed in B01J 2231/00;

(4-2) general aspects of the complexes of group B01J 31/16 and the specifically disclosed central metal(s) therein, as well as additional information regarding any special solvents used for any catalyst system of this group are indexed in B01J 2531/00.

(4-3) conceptual articles, e.g. reviews, are separately indexed in B01J 2231/005 and B01J 2531/001;

(4-4) additional information regarding the complexes or ligands classified in B01J 31/16 - B01J 31/24 and indexed in B01J 2531/00 is indexed in B01J 2540/00, e.g. non-coordinating substituents on the ligand periphery

- U B01J 31/02
- containing organic compounds or metal hydrides
- U B01J 31/0234
- • {Nitrogen-, phosphorus-, arsenic- or antimony-containing compounds}

• • • {Phosphorus containing compounds}

}

- U B01J 31/0255 Μ B01J 31/0267
- • • {Phosphines or phosphonium compounds, i.e. phosphorus bonded to at least one carbon atom, including e.g. sp2-hybridised phosphorus compounds such as phosphabenzene, the other atoms bonded to phosphorus being either carbon or hydrogen}

B01J 31/16	containing coordination complexes
B01J 31/18	<ul> <li>containing nitrogen, phosphorus, arsenic or antimony {as complexing atoms, e.g. in pyridine ligands, or in resonance therewith, e.g. in isocyanide ligands C=N-R or as complexed central atoms (double metal cyanides <u>B01J 27/26;</u> N-heterocyclic carbenes <u>B01J 31/2265</u>)}</li> </ul>
B01J 31/1805	<ul> <li>• • {the ligands containing nitrogen}</li> </ul>
B01J 31/181	<ul> <li>• • • {Cyclic ligands, including <u>e.g.</u> non-condensed polycyclic ligands, comprising at least one complexing nitrogen atom as ring member, e.g. pyridine}</li> </ul>
B01J 31/189	<ul> <li>• • {containing both nitrogen and phosphorus as complexing atoms, including</li> <li><u>e.g.</u> phosphino moieties, in one at least bidentate or bridging ligand}</li> </ul>
B01J 31/24	<ul> <li>Phosphines {, i.e. phosphorus bonded to only carbon atoms, or to both carbon and hydrogen atoms, including <u>e.g.</u> sp2-hybridised phosphorus compounds such as phosphabenzene, phosphole or anionic phospholide ligands (complexes with parent phosphine PH<sub>3</sub> B01J 31/1845)}</li> </ul>
B01J 31/2404	<ul> <li>• • {Cyclic ligands, including e.g. non-condensed polycyclic ligands, the phosphine-P atom being a ring member or a substituent on the ring}</li> </ul>
B01J 2231/00	Catalytic reactions performed with catalysts classified in <u>B01J 31/00</u>
	NOTE
	In this group indexing is done according to the specific catalytic reaction. In case of multiple catalytic activities only those are indexed which are specifically exemplified, i.e. by ways of worked examples, specific claims or explicit alternatives therein.
B01J 2231/30	Addition reactions at carbon centres, i.e. to either C-C or C-X multiple bonds
B01J 2231/34	<ul> <li>Other additions, e.g. Monsanto-type carbonylations, addition to 1,2-C=X1,2- C=X or 1,2-C-X triple bondstriplebonds, additions to 1,4-C=C-C=X or 1,4- C=-C-X triple bonds with X=-, e.g. O, S, NH/N-or analogues</li> </ul>
B01J 2231/70	<ul> <li>Oxidation reactions, e.g. epoxidation, (di)hydroxylation, dehydrogenation and analogues</li> </ul>
B01J 2231/76	<ul> <li>Dehydrogenation (transfer-dehydrogenation of CH-XH <u>B01J 2231/641</u>; transfer-dehydrogenation of -CHRCHR- via C-H activation <u>B01J 2231/46</u>)</li> </ul>
B01J 2231/763	<ul> <li>• • mofof</li> <li>-CH-XH (X= O, NH/N, S) to -C=X or -C-XCX</li> <li>triple bond species</li> </ul>
B01J 2531/00	Additional information regarding catalytic systems classified in B01J 31/00
	NOTE In this group the term "Metals" refers to the central metal in the coordination complexes ( B01J 31/16 - B01J 31/24), as used for the respective catalytic reaction, excluding carboxylates (see B01J 31/04) and other simple salts or organometallic compounds (see B01J 31/12). As to components, only those metals or solvents are indexed which are explicitly mentioned in the claims or the worked examples. As to compositional aspects, only those are provided for in the scheme below and are intended to be indexed, which provide additional information regarding the complexes and/or ligands classified in B01J 31/16 - B01J 31/24; indexing codes B01J 2531/0286 - B01J 2531/0297 are only used if these aspects are described as essential. Indexing codes B01J 2531/0213 - B01J 2531/0277 characterise the complexes on the basis of bond-type (linkage-type) thereby specifying the structural geometry of the complexes, while classification entries B01J 31/16 - B01J 31/24 are purely compositional subdivisions. The individual metals, the compositional aspects of complexes used and the solvents are indexed for each explicit alternative, according to the guideline above
	B01J 31/18 B01J 31/1805 B01J 31/189 B01J 31/2404 B01J 31/2404 B01J 2231/00 B01J 2231/30 B01J 2231/34 B01J 2231/70 B01J 2231/76

U B01J 2531/02 • Compositional aspects of complexes used, e.g. polynuclearity

U	B01J 2531/0269	<ul> <li>Complexes comprising ligands derived from the natural chiral pool or otherwise having a characteristic structure or geometry</li> </ul>
Μ	B01J 2531/0272	<ul> <li>derived from carbohydrates, including tartrates, e.g. tartrates or DIOP</li> </ul>
Pro	oject: MP0308 (B65H	ł)
U	B65H 3/46	<ul> <li>Supplementary devices or measures to assist separation or prevent double feed (control means comprising detectors responsive to double feed <u>B65H 7/12</u>)</li> </ul>
U	B65H 3/52	Friction retainers acting on under or rear side of article being separated
U	B65H 3/5207	<ul> <li>• • {Non-driven retainers, e.g. movable retainers being moved by the motion of the article}</li> </ul>
Μ	B65H 3/5215	<ul> <li>• • • {for separation the retainers positioned under articles separated from the top of the pile}</li> </ul>
Μ	B65H 3/523	<ul> <li>• • {for separation the retainers positioned over articles separated from the bottom of the pile}</li> </ul>
U	B65H 3/5246	<ul> <li>• {Driven retainers, i.e. the motion thereof being provided by a dedicated drive}</li> </ul>
Μ	B65H 3/5253	<ul> <li>• • • {for separation the retainers positioned under articles separated from the top of the pile}</li> </ul>
М	B65H 3/5261	{ <u>Retainers</u> of the roller type, e.g. rollers}
М	B65H 3/5269	•••• {Retainers of the belt type, e.g. belts}
Μ	B65H 3/5276	<ul> <li>• • • {for separation the retainers positioned over articles separated from the bottom of the pile}</li> </ul>
М	B65H 3/5284	•••• {Retainers of the roller type, e.g. rollers}
М	B65H 3/5292	•••• {Retainers of the belt type, e.g. belts}

# Project: MP0311 (F01N)

U	F01N 2900/00	Details of electrical control or of the monitoring of the exhaust gas treating apparatus
U	F01N 2900/06	<ul> <li>Parameters used for exhaust control or diagnosing</li> </ul>
U	F01N 2900/14	<ul> <li>said parameters being related to the exhaust gas</li> </ul>
М	F01N 2900/1411	<ul> <li>Exhaust gas velocity flow rate, e.g. mass flow rate or volumetric flow rate</li> </ul>

# Project: MP0313 (H05B)

М	H05B 35/00	Electric light sources using a combination of different types of light
		generation (combinations of dissimilar light sources F21, H01J 61/96)

# Project: MP0351 (B05B)

U	B05B 1/30	<ul> <li>designed to control volume of flow, e.g. with adjustable passages         {(<u>B05B 11/0094</u> takes precedence)}</li> </ul>
		WARNING Group <u>B05B 1/30</u> is impacted by reclassification into group <u>B05B 11/0094</u> . Groups <u>B05B 1/30</u> and <u>B05B 11/0094</u> should be considered to perform a complete search.
U	B05B 1/3033	<ul> <li>{the control being effected by relative coaxial longitudinal movement of the controlling element and the spray head (<u>B05B 1/3026</u> takes precedence)}</li> </ul>
U	B05B 1/304	• • {the controlling element being a lift valve}

neans for ds or other
the objects}
means, e.g.

# Project: MP0351 (F16D)

M F16D 48/00 External control of clutches
WARNING
Groups F16D 48/00, F16D 48/06, F16D 48/08, F16D 48/10, introduced in
September 1998, are not complete. Documents from the groups F16D 48/062 F16D 48/066 are in the process of being reorganised to F16D 48/00, F16D 48/08,
F16D 48/10

# Project: MP0351 (G06F)

U	G06F 3/00	Input arrangements for transferring data to be processed into a form capable of being handled by the computer; Output arrangements for transferring data from processing unit to output unit, e.g. interface arrangements (typewriters <u>B41J</u> ; conversion of physical variables <u>F15B 5/00, G01</u> ; image acquisition <u>G06T 1/00, G06F 9/00</u> ; coding, decoding or code conversion in general <u>H03M</u> ; transmission of digital information <u>H04L</u> ; {in regulating or control systems <u>G05B</u> })
U	G06F 3/01	<ul> <li>Input arrangements or combined input and output arrangements for interaction between user and computer (<u>G06F 3/16</u> takes precedence)</li> </ul>
U	G06F 3/03	<ul> <li>Arrangements for converting the position or the displacement of a member into a coded form</li> </ul>
		<u>NOTE</u> In this group, the first place priority rule is applied, i.e. at each hierarchical level, in the absence of an indication to the contrary, classification is made in the first appropriate place.
М	G06F 3/0304	<ul> <li>{Detection arrangements using opto-electronic means (constructional details of pointing devices not related to the detection arrangement using opto-electronic means <u>G06F 3/033</u> and subgroups; optical digitisers <u>G06F 3/042</u>)}</li> </ul>
		<u>WARNING</u> Groups G06F 3/0304 and G06F 3/0317 are not complete, pending a reorganisation. See also G06F 3/042 and subgroups

### Project: MP0351 (H04L)

- U H04L 12/2854
- M H04L 12/2856
- {Wide area networks, e.g. public data networks}
- • {Access arrangements, e.g. Internet access (asynchronous transfer mode networks <u>H04L 12/5601</u>; broadband local area networks <u>H04L 12/2801</u>; optical access or distribution networks <u>H04Q 11/0067</u>; access to open networks <u>H04L 12/5691</u>; digital subscriber line end-user equipment and bit-level processing of data on a PSTN-based network <u>H04M 11/00</u>; home network gateways <u>H04L 12/2834</u>; wireless access networks <u>H04W</u>)}

## <u>NOTES</u>

- 1. This group covers:
  - access to a public data network, such as an IP network, for subscribers, i.e. customers of a network service provider, over a wired network.
  - communication of generic types of data between end-user equipments, located typically at the subscriber premises, and an access server, which acts as interface between the access network and the public data network.
- 2. This group does not cover:
  - wireless access networks, which are covered by <u>H04W</u>
  - optical distribution networks, which are covered by H04Q 11/0067
  - bit-level, or PHY layer, processing of data between digital subscriber line equipments, which is covered by <u>H04M 11/06</u>
  - design of DSL, digital subscriber line, modems, which is covered by H04M 11/06
  - exchange of data related to functionalities of home network appliances between a home network and an external network, which is covered by H04L 12/2803
  - management of WDM parameters in optical multiplex systems, which is covered by <u>H04J 14/02</u>
  - circuit-switched access networks, which are covered by H04M 7/1205
  - access arrangements for providing telephone service in networks other than PSTN/ISDN, which are covered by <u>H04M 7/0066</u>
- 3. In this group the following terms or expressions are used with the meaning indicated:
  - ATM means Asynchronous Transfer Mode
  - LAN means Local Area Network
  - BRAS means Broadband Remote Access Server
  - DSLAM means Digital Subscriber Line Access Multiplexer
  - MSAN means MultiService Access Node
  - DSL means Digital Subscriber Line
  - IP means Internet Protocol
  - WDM means Wavelength Division Multiplexing
  - SDH means Synchronous Digital Hierarchy
  - OTN means Optical Transport Network
  - PSTN means Public Switched Telephone Network
  - ISDN means Integrated Services Digital Network
  - TDM means Time-Division Multiplexing
  - TDMA means Time Division Multiple Access

# WARNING

Subgroups of H04L 12/2856 are not complete pending reorganisation. See also H04L 12/5691

### Project: MP0352 (C07D)

C07D

#### HETEROCYCLIC COMPOUNDS

NOTES

1. This subclass <u>does not cover</u> compounds containing saccharide radicals as defined in Note (3) following the title of subclass <u>C07H</u>, which are covered by subclass <u>C07H</u>.

2. In this subclass, in compounds containing a hetero ring covered by group <u>C07D 295/00</u> and at least one other hetero ring, the hetero ring covered by group <u>C07D 295/00</u> is considered as an acyclic chain containing nitrogen atoms.

3. In this subclass, the following terms or expressions are used with the meaning indicated:

- "hetero ring" is a ring having at least one halogen, nitrogen, oxygen, sulfur, selenium or tellurium atom as a ring member;
- "bridged" means the presence of at least one fusion other than ortho, peri or spiro;
- two rings are "condensed" if they share at least one ring member, i.e. "spiro" and "bridged" are considered as condensed;
- "condensed ring system" is a ring system in which all rings are condensed among themselves;
- "number of relevant rings" in a condensed ring system equals the number of scissions necessary to convert the ring system into one acyclic chain;
- "relevant rings" in a condensed ring system, i.e. the rings which taken together describe all the links between every atom of the ring system, are chosen according to the following criteria consecutively:
  - a. lowest number of ring members;
  - b. highest number of hetero atoms as ring members;
  - c. lowest number of members shared with other rings;
  - d. last place in the classification scheme.

4. Attention is drawn to Note (3) after class <u>C07</u>, which defines the last place priority rule applied in the range of subclasses <u>C07C</u> - <u>C07K</u> and within these subclasses.

5. Therapeutic activity of compounds is further classified in subclass A61P.

6. In this subclass, the last place priority rule is applied, i.e. at each hierarchical level, in the absence of an indication to the contrary:

- a. compounds having only one hetero ring are classified in the last appropriate place in one of the groups <u>C07D 203/00</u> - <u>C07D 347/00</u>. The same applies for compounds having more hetero rings covered by the same main group, neither condensed among themselves nor condensed with a common carbocyclic ring system;
- b. compounds having two or more hetero rings covered by different main groups neither condensed among themselves nor condensed with a common carbocyclic ring system are classified in the last appropriate place in one of the groups <u>C07D 401/00</u> - <u>C07D 421/00</u>;
- *c.* compounds having two or more relevant hetero rings, covered by the same or by different main groups, which are condensed among themselves or condensed with a common carbocyclic ring system, are classified in the last appropriate place in one of the groups <u>C07D 451/00</u> - <u>C07D 519/00</u>.
- 7. In this subclass:
  - where a compound may exist in tautomeric forms, it is classified as though existing in the form which is classified last in the system. Therefore, double bonds between ring members and non-ring members and double bonds between ring members themselves are considered equivalent in determining the degree of hydrogenation of the ring. Formulae are considered to be written in Kekule form;
  - hydrocarbon radicals containing a carbocyclic ring and an acyclic chain by which it is linked to the hetero ring and being substituted on both the

carbocyclic ring and the acyclic chain by hetero atoms or by carbon atoms having three bonds to hetero atoms with at the most one bond to halogen, are classified according to the substituents on the acyclic chain. For example, the compound

is classified in group <u>C07D 233/22</u>, and the compound

$$\mathbb{Q}_{N}^{\mathsf{NH}}$$
 CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>- $\mathbb{C}^{\mathsf{NH}}$ 

is classified in groups C07D 233/24 and C07D 233/26, where X —NH<sub>2</sub>, — NHCOCH<sub>3</sub>, or —COOCH<sub>3</sub>.

# <u>WARNING</u>

In this subclass non-limiting references (in the sense of paragraph 39 of the Guide to the IPC) may still be displayed in the scheme.

- D C07D 203/00 Heterocyclic compounds having only nitrogen as ring hetero atom C07D 259/00
  - C07D 401/00 Heterocyclic compounds containing two or more hetero rings, having nitrogen atoms as the only ring hetero atoms, at least one ring being a sixmembered ring with only one nitrogen atom

## NOTE

Groups <u>C07D 401/00-C07D 421/00</u> cover compounds containing two or more relevant hetero rings at least two of which are covered by different main groups of groups <u>C07D 203/00-C07D 347/00</u>, neither condensed among themselves nor condensed with a common carbocyclic ring or ring system.

# Project: MP0364 (E02F)

U	E02F 3/00	Dredgers; Soil-shifting machines (for special purposes <u>E02F 5/00;</u> other machines or apparatus for mining <u>E21C;</u> tunnelling <u>E21D</u> )
U	E02F 3/04	mechanically-driven
Μ	E02F 3/08	<ul> <li>with digging elements on an endless chain, {e.g. bucket-type chains (for digging trenches or ditches E02F 5/06; cutting machines for mining or quarrying E21C 25/22 conveyors <u>B65G</u>)}</li> </ul>
U	E02F 7/00	Equipment for conveying or separating excavated material (barges adapted for carrying-away material from floating dredgers <u>B63B 35/28</u> )
Μ	E02F 7/02	<ul> <li>Conveying equipment mounted on dredgers or excavators a dredger (conveyors in general <u>B65G</u>-){(in combination with graders or bulldozers E02F 3/7695; in combination with rotating digging wheels E02F 3/181; in combination with bucket-arms E02F 3/348; in combination with digging elements mounted on an endless chain E02F 3/082, E02F 3/083)}</li> </ul>

## Project: MP0371 (A47H)

M A47H 23/00 Curtains; Draperies (shower curtain arrangements A47K 3/38)

### Project: MP0375 (A61K)

M A61K

PREPARATIONS FOR MEDICAL, DENTAL, OR TOILET PURPOSES (devices or methods specially adapted for bringing pharmaceutical products into particular physical or administering forms <u>A61J 3/00</u>; chemical aspects of, or use of materials for deodorisation of air, for disinfection or sterilisation, or for bandages, dressings, absorbent pads or surgical articles <u>A61L</u> <del>{; compounds per se C01, C07, C08, C12N; soap</del> *compositions C11D* <del>{; microorganisms per se C12N}</del>)

#### **NOTES**

1. This subclass <u>covers</u> the following subject matter, whether set forth as a composition (mixture), process of preparing the composition or process of treating using the composition:

a. Drug or other biological compositions which are capable of:

- preventing, alleviating, treating or curing abnormal or pathological conditions of the living body by such means as destroying a parasitic organism, or limiting the effect of the disease or abnormality by chemically altering the physiology of the host or parasite (biocides A01N 25/00 - A01N 65/00);
- maintaining, increasing, decreasing, limiting, or destroying a physiological body function, e.g. vitamin compositions, sex sterilants, fertility inhibitors, growth promotors, or the like (sex sterilants for invertebrates, e.g. insects, <u>A01N</u>; plant growth regulators <u>A01N 25/00</u>
   A01N 65/00);
- diagnosing a physiological condition or state by an <u>in vivo</u> test, e.g. X-ray contrast or skin patch test compositions (measuring or testing processes involving enzymes or microorganisms C12Q; <u>in vitro</u> testing of biological material, e.g. blood, urine, <u>G01N</u>, e.g. <u>G01N 33/48</u>)
- Body treating compositions generally intended for deodorising, protecting, adorning or grooming the body, e.g. cosmetics, dentifrices, tooth filling materials.

2. Attention is drawn to the definitions of groups of chemical elements following the title of section  $\underline{C}$ .

3. Attention is drawn to the notes in class <u>C07</u>, for example the notes following the title of the subclass <u>C07D</u>, setting forth the rules for classifying organic compounds in that class, which rules are also applicable, if not otherwise indicated, to the classification of organic compounds in <u>A61K</u>.

4. In this subclass, with the exception of group <u>A61K 8/00</u>, the last place priority rule is applied, i.e. at each hierarchical level, in the absence of an indication to the contrary, classification is made in the last appropriate place.

## WARNINGS

1. The following IPC groups are not in the CPC scheme. The subject matter for these IPC groups is classified in the following CPC groups:

	-	
A61K 9/133	covered by	<u>A61K 9/127</u>
A61K 9/18	covered by	<u>A61K 9/14</u>
A61K 9/22	covered by	<u>A61K 9/20</u>
A61K 9/24	covered by	<u>A61K 9/209</u>
A61K 9/26	covered by	<u>A61K 9/2077, A61K 9/2081</u>
A61K 9/30	covered by	<u>A61K 9/28</u>
A61K 9/32	covered by	<u>A61K 9/28</u>
A61K 9/34	covered by	<u>A61K 9/28</u>
A61K 9/36	covered by	<u>A61K 9/28</u>
A61K 9/38	covered by	<u>A61K 9/28</u>

A61K 9/40	covered by	<u>A61K 9/28</u>
A61K 9/42	covered by	<u>A61K 9/28</u>
A61K 9/44	covered by	<u>A61K 9/2072</u>
A61K 9/46	covered by	<u>A61K 9/0007</u>
A61K 9/52	covered by	<u>A61K 9/50</u>
A61K 9/54	covered by	<u>A61K 9/5073, A61K 9/5078,</u>
		<u>A61K 9/5084</u>
A61K 9/56	covered by	<u>A61K 9/50</u>
A61K 9/58	covered by	<u>A61K 9/50</u>
A61K 9/60	covered by	<u>A61K 9/50</u>
A61K 9/62	covered by	<u>A61K 9/50</u>
A61K 9/64	covered by	<u>A61K 9/50</u>
A61K 9/66	covered by	<u>A61K 9/48</u>
A61K 9/68	covered by	<u>A61K 9/0058</u>
A61K 9/72	covered by	<u>A61K 9/0073</u>
A61K 39/108	covered by	
A61K 39/112	covered by	
A61K 45/08	covered by	<u>A61K 31/00, A61K 47/00</u>
A61K 47/04	covered by	<u>A61K 47/02</u>
A61K 50/00	covered by	<u>A61K 9/0009, C09J 9/02</u>

The following IPC indexing codes are not used in the CPC scheme: A61K 101/00 - A61K 135/00

2. Subgroups of <u>A61K 48/00</u> are incomplete (Jan. 2003). Documents are being reclassified from <u>A61K 48/00</u> to its subgroups

3. In this subclass non-limiting references (in the sense of paragraph 39 of the Guide to the IPC) may still be displayed in the scheme.

M A61K 6/00 Preparations for dentistry (teeth cleaning preparations <u>A61K 8/00</u>, <u>A61Q 11/00; {dental prostheses A61C 13/00; fastening dental prostheses in</u> the mouth using adhesive foils or adhesive compositions {<u>A61C 13/0025</u>}; apparatus or methods for oral or dental hygiene A61C})

#### NOTE

In groups <u>A61K 6/00</u> - <u>A61K 6/0044</u> and <u>A61K 6/083</u> - <u>A61K 6/10</u>, the use of specific polymers is indicated by addition of classification symbols of the subclass <u>C08L</u> preceded by the sign "+", e.g. compositions for taking dental impressions containing alginates are classified in <u>A61K 6/10</u> + <u>C08L 5/04</u>

### Project: MP0376 (A61M)

U A61M 1/00

Suction or pumping devices for medical purposes; Devices for carryingoff, for treatment of, or for carrying-over, body-liquids; Drainage systems ({A61M 3/00 - A61M 5/00, A61M 11/00 - A61M 16/00, A61M 27/00 - A61M 35/00 take precedence } ; catheters A61M 25/00; tube connectors, tube couplings, valves or branch units specially adapted for medical use A61M 39/00; devices for taking samples of blood A61B 5/14; implements for holding wounds open A61B 17/02; {saliva removers for dentists A61C 17/04} ; filters implantable into blood vessels A61F 2/01; pumps in general F04)

#### WARNING

Groups A61M 1/0007, A61M 1/0015, A61M 1/0017, A61M 1/0025 - A61M 1/0029, A61M 1/0033, A61M 1/0035, A61M 1/0045, A61M 1/005 - A61M 1/0054, A61M 1/006, A61M 1/0068 - A61M 1/0072, A61M 1/0082, A61M 1/0086, A61M 1/009 - A61M 1/0098, A61M 1/0204, A61M 1/0213 - A61M 1/0236, A61M 1/0254, A61M 1/0277, A61M 1/0286, A61M 1/0295, A61M 1/062 -

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A61M 1/068, A61M 1/1001 - A61M 1/1008, A61M 1/1012 - A61M 1/1036, <u>A61M 1/1039</u> - <u>A61M 1/1044</u>, <u>A61M 1/1048</u> - <u>A61M 1/1051</u>, <u>A61M 1/1055</u> -A61M 1/1058, A61M 1/1062 - A61M 1/1065, A61M 1/1074 - A61M 1/1075, <u>A61M 1/1082, A61M 1/1084, A61M 1/1087</u> - <u>A61M 1/1089, A61M 1/1096</u> - <u>A61M 1/1098, A61M 1/122</u> - <u>A61M 1/125, A61M 1/1601</u> - <u>A61M 1/1652,</u> A61M 1/166 - A61M 1/1676, A61M 1/1682 - A61M 1/1684, A61M 1/1688, <u>A61M 1/262 - A61M 1/267, A61M 1/281 - A61M 1/284, A61M 1/288, A61M 1/301</u> - A61M 1/309, A61M 1/322 - A61M 1/327, A61M 1/3403 - A61M 1/341, A61M 1/3417, A61M 1/3424 - A61M 1/3437, A61M 1/3444 - A61M 1/3451, A61M 1/3458, A61M 1/3465, A61M 1/3468, A61M 1/3475 - A61M 1/3493, <u>A61M 1/3601</u> - <u>A61M 1/362</u>, <u>A61M 1/3629</u> - <u>A61M 1/3632</u>, <u>A61M 1/3635</u> -A61M 1/3638, A61M 1/3641, A61M 1/3644 - A61M 1/3652, A61M 1/3656 - A61M 1/3661, A61M 1/3667, A61M 1/3673, A61M 1/3676, A61M 1/3678, A61M 1/3683, A61M 1/3686, A61M 1/3689, A61M 1/3692, A61M 1/3695 -A61M 1/3698 are incomplete pending reclassification of documents from group A61M 1/00 or respective subgroup. Until reclassification is complete, groups A61M 1/00 or respective subgroup and A61M 1/0007, A61M 1/0015, A61M 1/0017, A61M 1/0025 - A61M 1/0029,

A61M 1/0033, A61M 1/0035, A61M 1/0045, A61M 1/005 - A61M 1/0054, A61M 1/006, A61M 1/0068 - A61M 1/0072, A61M 1/0082, A61M 1/0086, A61M 1/009 - A61M 1/0098, A61M 1/0204, A61M 1/0213 - A61M 1/0236, A61M 1/0254, A61M 1/0277, A61M 1/0286, A61M 1/0295, A61M 1/062 -A61M 1/068, A61M 1/1001 - A61M 1/1008, A61M 1/1012 - A61M 1/1036, <u>A61M 1/1039</u> - <u>A61M 1/1044</u>, <u>A61M 1/1048</u> - <u>A61M 1/1051</u>, <u>A61M 1/1055</u> -A61M 1/1058, A61M 1/1062 - A61M 1/1065, A61M 1/1074 - A61M 1/1075, <u>A61M 1/1082, A61M 1/1084, A61M 1/1087</u> - <u>A61M 1/1089, A61M 1/1096</u> - A61M 1/1098, A61M 1/122 - A61M 1/125, A61M 1/1601 - A61M 1/1652, A61M 1/166 - A61M 1/1676, A61M 1/1682 - A61M 1/1684, A61M 1/1688, A61M 1/262 - A61M 1/267, A61M 1/281 - A61M 1/284, A61M 1/288, A61M 1/301 - A61M 1/309, A61M 1/322 - A61M 1/327, A61M 1/3403 - A61M 1/341, A61M 1/3417, A61M 1/3424 - A61M 1/3437, A61M 1/3444 - A61M 1/3451, A61M 1/3458, A61M 1/3465, A61M 1/3468, A61M 1/3475 - A61M 1/3493, A61M 1/3601 - A61M 1/362, A61M 1/3629 - A61M 1/3632, A61M 1/3635 -A61M 1/3638, A61M 1/3641, A61M 1/3644 - A61M 1/3652, A61M 1/3656 - A61M 1/3661, A61M 1/3667, A61M 1/3673, A61M 1/3676, A61M 1/3678, A61M 1/3683, A61M 1/3686, A61M 1/3689, A61M 1/3692, A61M 1/3695 - A61M 1/3698 should be considered in order to perform a complete search.

- U A61M 1/10
   Blood pumps; Artificial hearts; Devices for mechanical circulatory assistance, e.g. intra-aortic balloon pumps (artificial heart valves <u>A61F 2/24</u>; heart stimulation <u>A61H 31/00</u>)
  - A61M 1/1037 • {Pumps having flexible elements, e.g. with membranes, diaphragms, or bladder pumps (*Moving membranes in blood filters used for pumping* <u>A61M 1/267</u>)}
  - A61M 1/107 • {Pulsating membrane pumps without valves, e.g. for counter pulsation, extra-arterial balloon pumps}
  - A61M 1/1072 • • {Intra-arterial balloon pumps, e.g. intra-aortic (*intravascular pumps* <u>A61M 1/125</u>)}
- U A61M 16/00 Devices for influencing the respiratory system of patients by gas treatment, e.g. mouth-to-mouth respiration; Tracheal tubes (stimulating the respiratory movement by mechanical, pneumatic or electrical means, iron lungs combined with gas breathing means <u>A61H 31/00</u>)

### WARNINGS

1. Groups <u>A61M 16/0003</u> - <u>A61M 16/0012</u>, <u>A61M 16/006</u> - <u>A61M 16/0063</u>, <u>A61M 16/0069</u>, <u>A61M 16/0081</u> - <u>A61M 16/0084</u>, <u>A61M 16/0093</u>, <u>A61M 16/0402</u> - Μ

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A61M 16/0431, A61M 16/0436 - A61M 16/0438, A61M 16/0443 - A61M 16/0459, A61M 16/0475 - A61M 16/0486, A61M 16/049 - A61M 16/0495, A61M 16/0605 -A61M 16/0655, A61M 16/0672 - A61M 16/0677, A61M 16/0688 - A61M 16/0694, A61M 16/0825 - A61M 16/0866, A61M 16/0883 - A61M 16/0891, A61M 16/1005 - A61M 16/1015, A61M 16/106 - A61M 16/107, A61M 16/108 - A61M 16/1095, A61M 16/122 - A61M 16/127, A61M 16/142 - A61M 16/147, A61M 16/161, A61M 16/164 - A61M 16/188, A61M 16/201 - A61M 16/207, A61M 16/209 are incomplete pending reclassification of documents from group A61M 16/00 or respective subgroup. Until reclassification is complete, groups A61M 16/00 or respective subgroup and A61M 16/003 - A61M 16/0012, A61M 16/006 - A61M 16/0063, A61M 16/0069, A61M 16/0081 - A61M 16/0084, A61M 16/0093, A61M 16/0402 - A61M 16/0431, A61M 16/0436 - A61M 16/0438, A61M 16/0443 - A61M 16/0459, A61M 16/0475 - A61M 16/0486, A61M 16/049 - A61M 16/0495, A61M 16/0605 - A61M 16/0655, A61M 16/0672 - A61M 16/049 - A61M 16/0495, A61M 16/0605 - A61M 16/0655, A61M 16/0672 - A61M 16/049 - A61M 16/0495, A61M 16/0605 - A61M 16/0655, A61M 16/0672 - A61M 16/049 - A61M 16/0495, A61M 16/0605 - A61M 16/0655, A61M 16/0672 - A61M 16/0477, A61M 16/0688 - A61M 16/0694, A61M 16/0825 -

A61M 16/0866, A61M 16/0883 - A61M 16/0891, A61M 16/1005 - A61M 16/1015, A61M 16/106 - A61M 16/107, A61M 16/108 - A61M 16/1095, A61M 16/122 - A61M 16/127, A61M 16/142 - A61M 16/147, A61M 16/161, A61M 16/164 - A61M 16/168, A61M 16/201 - A61M 16/207, A61M 16/209 should be considered in order to perform a complete search.

2. Group <u>A61M 16/00</u> is impacted by reclassification into groups <u>A61M 16/021</u>, <u>A61M 16/022</u>, <u>A61M 16/024</u> and <u>A61M 16/026</u>.
All groups listed in this Warning should be considered in order to perform a complete search.

- U A61M 16/0087 {Environmental safety or protection means, e.g. preventing explosion}
  - A61M 16/009 • {Removing used or expired gases or anaesthetic vapours (*Filtering, sterilising* or disinfecting the exhaust air in drainage systems <u>A61M 1/0052</u>; Bacterial filters in the expiratory path <u>A61M 16/1065</u>)}
- U A61M 25/00 Catheters; Hollow probes (dilators <u>A61M 29/00</u>; {peritoneal catheters <u>A61M 1/285</u>; tracheal tubes <u>A61M 16/04</u>; for drainage <u>A61M 27/00</u>; for uterus, vagina or rectum <u>A61M 31/00</u>}; for measuring or testing <u>A61B</u>; {materials for catheters <u>A61L 29/00</u>})
- U A61M 25/10
   Balloon catheters (<u>A61M 25/0125</u> takes precedence; embolectomy <u>A61B 17/22032</u>; retractors <u>A61B 17/02</u>;) inflatable balloons for placing stents or stent-grafts <u>A61F 2/958</u> {; stomach balloons for treatment of obesity <u>A61F 5/0003</u>; oesophagal tubes <u>A61J 15/00</u>})
- U A61M 2025/1043 {with special features or adapted for special applications (not used)}
  - A61M 2025/1081 • {having sheaths or the like for covering the balloon but not forming a permanent part of the balloon, e.g. retractable, dissolvable or tearable sheaths (for balloon length adjustment A61M 2025/1068)}
- U A61M 2202/00 Special media to be introduced, removed or treated (applying radioactive material <u>A61N 5/1028</u>)

NOTE

The classification symbols <u>A61M 2202/0007</u> - <u>A61M 2202/0092</u> are not listed first when assigned to patent documents. They are used only when associated to other subgroups of <u>A61M 2202/00</u> in combination sets Example:

A61M 2202/0417, A61M 2202/0057

М	A61M 2202/04	• Liquids	
		NOTE The codes can be followed by addition meaning as listed below:	n <mark>al symbols. The symbols have the</mark>
		+A	fluid entering a filter;
		+B	fluid leaving the cross-flow filter without having passed through the filtering element ;
		+ <del>C</del>	filtrate, i.e. the fluid passing through the filter;
		+Ð	r <del>esidue retained by the filter due to size;</del>
		+E	retained by adsorption;
		+F	changed by biological action;
		+H	product to be retained or harvested, e.g. by pheresis;
		+K	changed by chemical action:
		+W	product washed out;
		+Z	starting product created by centrifuging.

# Project: MP0378 (D02G)

M D02G 3/00

Yarns or threads, e.g. fancy yarns; Processes or apparatus for the production thereof, not otherwise provided for (for producing crimped or curled yarns D02G 1/00)

# NOTE

In this main group, further classification in indexing scheme <u>D10B</u> for aspects relating to yarns is required.

### Project: MP0378 (D03D)

M D03D

#### WOVEN FABRICS; METHODS OF WEAVING; LOOMS

#### NOTES

1. Class <u>D06</u> takes precedence over this subclass in respect of processes involving both weaving and finishing steps and in respect of the finished fabrics.

2. A method of weaving is classified in the group designating the fabric woven unless the method is characterised by the operation of a particular loom rather than by the production of a particular fabric. In this case, the method is classified in the group for the loom.

3. In this subclass, further classification in indexing scheme <u>D10B</u> for aspects relating to textiles is required.

**3. 4**.In this subclass, if there is any doubt as to which of the essential features is the most important (this is usually the most restrictive feature), the groups designating woven fabrics should be considered in the order in which they appear at each level of indentation, except that groups designating woven pile fabrics are to be considered as taking precedence over groups designating other woven fabrics.

#### WARNING

In this subclass non-limiting references (in the sense of paragraph 39 of the Guide to the IPC) may still be displayed in the scheme.

### Project: MP0378 (D04B)

## M D04B KNITTING

**NOTES** 

1. In this subclass, the groups designating machines, apparatus, devices, or implements include processes characterised by, or dependent on, their use and the products of such processes

2. Knitted products, i.e. fabrics, articles, are classified in this subclass only if they have constructional features which are of interest from the knitting aspect

3. In this subclass, further classification in indexing scheme <u>D10B</u> for aspects relating to textiles is required.

#### WARNING

In this subclass non-limiting references (in the sense of paragraph 39 of the Guide to the IPC) may still be displayed in the scheme.

### Project: MP0380 in addition to MP0146 (H04R)

M H04R 25/75 • {Electric tinnitus maskers providing an auditory perception <del>(evaluating tinnitus A61B 5/128; devices or methods to cause a change in the state of consciousness A61M 21/00; masking sound in general G10K 11/175)}
WARNING
Not complete pending a reorganization, see also H04R 25/00</del>

### Project: MP0383 (G03H)

Μ	G03H 2210/00	Object characteristics <del>(not used, see subgroups)</del>
М	G03H 2222/00	Light sources or light beam properties <del>(not used, see subgroups)</del>
Μ	G03H 2223/00	Optical components <del>(not used, see subgroups)</del>
Μ	G03H 2224/00	Writing means other than actinic light wave <del>(not used, see subgroups)</del>
Μ	G03H 2225/00	Active addressable light modulator <del>(not used, see subgroups)</del>
М	G03H 2226/00	Electro-optic or electronic components relating to digital holography <mark>(not</mark> used, see subgroups)
М	G03H 2227/00	Mechanical components or mechanical aspects not otherwise provided for (not used, see subgroups)
М	G03H 2230/00	Form or shape of the hologram when not registered to the substrate <del>(not</del> <del>used, see subgroups)</del>
М	G03H 2240/00	Hologram nature or properties <del>(not used, see subgroups)</del>
М	G03H 2250/00	Laminate comprising a hologram layer <del>(not used, see subgroups)</del>
М	G03H 2260/00	Recording materials or recording processes <del>(not used, see subgroups)</del>
М	G03H 2270/00	Substrate bearing the hologram <mark>(not used, see subgroups)</mark>

# Project: MP0384 (C08L)

U	C08L 83/00	Compositions of macromolecular compounds obtained by reactions forming in the main chain of the macromolecule a linkage containing silicon with or without sulfur, nitrogen, oxygen or carbon only; Compositions of derivatives of such polymers
		<u>NOTE</u> In this main group, from 01.09.2010 onwards, new documents are classified according to the following system.The composition is identified with the C- Set, e.g. (C0L83/04, C08L 83/04) (for a composition containing two or more siloxanes), while the info
U	C08L 83/14	<ul> <li>in which at least two but not all the silicon atoms are connected by linkages other than oxygen atoms (<u>C08L 83/10</u> takes precedence)</li> </ul>
М	C08L 83/16	<ul> <li>r in which all the silicon atoms are connected by linkages other than oxygen atoms</li> </ul>
Pro	ject: MP0399 (F16G	
U	F16G 5/00	V-belts, i.e. belts of tapered cross-section
U	F16G 5/16	consisting of several parts
М	F16G 5/163	<ul> <li>• {with means allowing lubrication (F16G 5/18 takes precedence)}</li> </ul>
		WARNING
		this group is not complete pending a reorganisation, see also F16G 5/16
М	F16G 5/166	<ul> <li>{with non-metallic rings (<u>F16G 5/18</u> takes precedence)}</li> </ul>
		WARNING
		this group is not complete pending a reorganisation, see also F16G 5/16
U	F16G 11/00	Means for fastening cables or ropes to one another or to other objects; Caps or sleeves for fixing on cables or ropes (attaching ropes or cables to lift cars or cages <u>B66B 7/08</u> , to winch drums or barrels <u>B66D 1/34</u> ; ground anchors <u>E02D 5/00</u> ; anchoring devices for prestressed members <u>E04C 5/00</u> ; rope clamps in earth drilling E21B 19/12)
U	F16G 11/02	<ul> <li>with parts deformable to grip the cable or cables; Fastening means which engage a sleeve or the like fixed on the cable</li> </ul>
М	F16G 11/025	<ul> <li>{Fastening means which engage a sleeve or the like fixed on the cable, e.g. caps (F16G 11/143 and F16G 11/146 take precedence)}</li> </ul>
		WARNING
		this group is not complete pending a reorganisation, see also F16G 11/00
М	F16G 11/04	<ul> <li>with wedging action, e.g. friction clamps (<u>F16G 11/02</u>, {<u>F16G 11/10</u>} take precedence; {eyes for grommet-thimble type fastenings <u>F16G 11/146</u>})</li> </ul>
		WARNING
		Subgroups of F16G 11/04 pending a reorganisation, see also F16G 11/04
М	F16G 11/10	Quick-acting fastenings; Clamps holding in one direction only
		WARNING
		Subgroups of F16G 11/10 pending a reorganisation, see also F16G 11/10
U	F16G 11/14	<ul> <li>Devices or coupling-pieces designed for easy formation of adjustable loops, e.g. choker hooks; Hooks or eyes with integral parts designed to facilitate quick attachment to cables or ropes at any point, e.g. by forming loops (crane hooks <u>B66C 1/34</u>; hooks or eyes in general <u>F16B 45/00</u>)</li> </ul>

М	F16G 11/143	• • {Hooks}
		WARNING
		This group is not complete pending a reorganisation, see also F16G 11/14
М	F16G 11/146	<ul> <li>• {Eyes}</li> </ul>
		WARNING
		This group is not complete pending a reorganisation, see also F16G 11/14
Pro	ject: MP0399 (F16N	Л)
U	F16M 11/00	Stands or trestles as supports for apparatus or articles placed thereon {Stands for scientific apparatus such as gravitational force meters}(without heads F16K 13/00; easels or stands for blackboards or the like A47B 97/04; show-stands A47F 7/00; for workmen E04G 1/32; {sockets or holders for poles or posts E04H 12/22} ; supporting, suspending for lighting devices F21V 21/00; special modifications for particular apparatus or articles, see the appropriate subclasses)
U	F16M 11/02	• Heads
U	F16M 11/04	<ul> <li>Means for attachment of apparatus; Means allowing adjustment of the apparatus relatively to the stand</li> </ul>
М	F16M 11/041	<ul> <li>• • {Allowing quick release of the apparatus}</li> </ul>
		WARNING
		This group is not complete pending reclassification; see also group F16M 11/04
М	F16M 11/043	• • {Allowing translations}
		WARNING
		This group is not complete pending reclassification; see also group F16M 11/04
М	F16M 11/045	
		WARNING
		This group is not complete pending reclassification; see also group F16M 11/04
М	F16M 11/046	• • • {adapted to upward-downward translation movement}
		WARNING
		This group is not complete pending reclassification; see also group F16M 11/04 and F16M 11/24
М	F16M 11/048	
		WARNING
		This group is not complete pending reclassification; see also group F16M 11/04 and F16M 11/38
U	F16M 11/06	• • allowing pivoting
U	F16M 11/10	• • • • around a horizontal axis {( <u>F16M 11/12</u> takes precedence)}
М	F16M 11/105	<ul> <li>••• {the horizontal axis being the roll axis, e.g. for creating a landscape- portrait rotation}</li> </ul>
		WARNING
		Not complete; see also F16M 11/10
U	F16M 11/12	· · · in more than one direction

Μ	F16M 11/121	· · · · {constituted of several dependent joints}
		<u>WARNING</u> This group is not complete pending reclassification; see also group F16M 11/12
Μ	F16M 11/123	••••• {the axis of rotation intersecting in a single point, e.g. by using gimbals}
		<u>WARNING</u> This group is not complete pending reclassification; see also group F16M 11/12
М	F16M 11/125	• • • • {for tilting and rolling ( <u>F16M 11/14</u> takes precedence)}
		WARNING
		This group is not complete pending reclassification; see also group F16M 11/12
Μ	F16M 11/126	• • • • {for tilting and panning ( <u>F16M 11/14</u> takes precedence)}
		WARNING
		This group is not complete pending reclassification; see also group F16M 11/12
Μ	F16M 11/128	• • • • {for panning and rolling (F16M 11/14 takes precedence)}
		WARNING
		This group is not complete pending reclassification; see also group F16M 11/12
U	F16M 11/20	Undercarriages with or without wheels
U M	F16M 11/20 F16M 11/2007	<ul> <li>Undercarriages with or without wheels</li> <li>• {comprising means allowing pivoting adjustment}</li> </ul>
		<ul> <li>• {comprising means allowing pivoting adjustment}</li> </ul>
Μ		<ul> <li>• {comprising means allowing pivoting adjustment}</li> <li><u>WARNING</u></li> <li><u>This group is not complete pending reclassification; see also group</u></li> <li><u>F16M 11/06, F16M 11/08, F16M 11/10, F16M 11/12, F16M 11/14 depending</u></li> </ul>
Μ	F16M 11/2007	<ul> <li>• {comprising means allowing pivoting adjustment}</li> <li>WARNING This group is not complete pending reclassification; see also group F16M 11/06, F16M 11/08, F16M 11/10, F16M 11/12, F16M 11/14 depending on the type of movement allowed</li> <li>• • {around a vertical axis (F16M 11/2035 takes precedence)} WARNING</li> </ul>
Μ	F16M 11/2007	<ul> <li>• {comprising means allowing pivoting adjustment}</li> <li><u>WARNING</u> This group is not complete pending reclassification; see also group F16M 11/06, F16M 11/08, F16M 11/10, F16M 11/12, F16M 11/14 depending on the type of movement allowed</li> <li>• • {around a vertical axis (F16M 11/2035 takes precedence)}</li> </ul>
Μ	F16M 11/2007	<ul> <li>• {comprising means allowing pivoting adjustment}</li> <li>WARNING This group is not complete pending reclassification; see also group F16M 11/06, F16M 11/08, F16M 11/10, F16M 11/12, F16M 11/14 depending on the type of movement allowed</li> <li>• • {around a vertical axis (F16M 11/2035 takes precedence)}</li> <li>WARNING This group is not complete pending reclassification; see also group F16M 11/08</li> <li>• • {around a horizontal axis (F16M 11/2035 takes precedence)}</li> </ul>
м	F16M 11/2007 F16M 11/2014	<ul> <li>• {comprising means allowing pivoting adjustment}</li> <li><u>WARNING</u> This group is not complete pending reclassification; see also group F16M 11/06, F16M 11/08, F16M 11/10, F16M 11/12, F16M 11/14 depending on the type of movement allowed</li> <li>• • {around a vertical axis (F16M 11/2035 takes precedence)} <u>WARNING</u> This group is not complete pending reclassification; see also group F16M 11/08 • • • {around a horizontal axis (F16M 11/2035 takes precedence)} <u>WARNING</u> • • • {around a horizontal axis (F16M 11/2035 takes precedence)} <u>WARNING</u> • • • {around a horizontal axis (F16M 11/2035 takes precedence)}</li></ul>
м	F16M 11/2007 F16M 11/2014	<ul> <li>• {comprising means allowing pivoting adjustment}</li> <li>WARNING This group is not complete pending reclassification; see also group F16M 11/06, F16M 11/08, F16M 11/10, F16M 11/12, F16M 11/14 depending on the type of movement allowed</li> <li>• • {around a vertical axis (F16M 11/2035 takes precedence)}</li> <li>WARNING This group is not complete pending reclassification; see also group F16M 11/08</li> <li>• • {around a horizontal axis (F16M 11/2035 takes precedence)}</li> </ul>
м	F16M 11/2007 F16M 11/2014	<ul> <li>• {comprising means allowing pivoting adjustment}</li> <li>WARNING This group is not complete pending reclassification; see also group F16M 11/06, F16M 11/08, F16M 11/10, F16M 11/12, F16M 11/14 depending on the type of movement allowed</li> <li>• • {around a vertical axis (F16M 11/2035 takes precedence)}</li> <li>WARNING This group is not complete pending reclassification; see also group F16M 11/08</li> <li>• • {around a horizontal axis (F16M 11/2035 takes precedence)}</li> <li>WARNING This group is not complete pending reclassification; see also group F16M 11/08</li> </ul>
M M	F16M 11/2007 F16M 11/2014 F16M 11/2021	<ul> <li>• {comprising means allowing pivoting adjustment}</li> <li>WARNING This group is not complete pending reclassification; see also group F16M 11/06, F16M 11/08, F16M 11/10, F16M 11/12, F16M 11/14 depending on the type of movement allowed</li> <li>• • {around a vertical axis (F16M 11/2035 takes precedence)}</li> <li>WARNING This group is not complete pending reclassification; see also group F16M 11/08</li> <li>• • {around a horizontal axis (F16M 11/2035 takes precedence)}</li> <li>WARNING This group is not complete pending reclassification; see also group F16M 11/08</li> <li>• • {around a horizontal axis (F16M 11/2035 takes precedence)}</li> </ul>
M M	F16M 11/2007 F16M 11/2014 F16M 11/2021	<ul> <li>- {comprising means allowing pivoting adjustment}</li> <li>WARNING This group is not complete pending reclassification; see also group F16M 11/06, F16M 11/08, F16M 11/10, F16M 11/12, F16M 11/14 depending on the type of movement allowed</li> <li>- {around a vertical axis (F16M 11/2035 takes precedence)}</li> <li>WARNING This group is not complete pending reclassification; see also group F16M 11/08</li> <li>- {around a horizontal axis (F16M 11/2035 takes precedence)}</li> <li>WARNING This group is not complete pending reclassification; see also group F16M 11/08</li> <li>- {around a horizontal axis (F16M 11/2035 takes precedence)}</li> <li>WARNING This group is not complete pending reclassification; see also group F16M 11/10</li> <li>- {for rolling, i.e. for creating a landscape-portrait rotation}</li> <li>WARNING</li> </ul>
M M M	F16M 11/2007 F16M 11/2014 F16M 11/2021 F16M 11/2028	<ul> <li>- {comprising means allowing pivoting adjustment}</li> <li>WARNING         This group is not complete pending reclassification; see also group         F16M 11/06, F16M 11/08, F16M 11/10, F16M 11/12, F16M 11/14 depending             on the type of movement allowed         </li> <li>- (around a vertical axis (F16M 11/2035 takes precedence))         WARNING             This group is not complete pending reclassification; see also group             F16M 11/08         </li> <li>- (around a horizontal axis (F16M 11/2035 takes precedence))         WARNING             This group is not complete pending reclassification; see also group             F16M 11/08         </li> <li>- (around a horizontal axis (F16M 11/2035 takes precedence))         WARNING             This group is not complete pending reclassification; see also group             F16M 11/08         </li> <li>- (for rolling, i.e. for creating a landscape-portrait rotation)          WARNING             Not complete; see also F16M 11/10         </li> </ul>

М	F16M 11/2042	<ul> <li>• • {constituted of several dependent joints}</li> </ul>
		WARNING
		This group is not complete pending reclassification; see also group F16M 11/12
М	F16M 11/205	••••• {the axis of rotation intersecting in a single point, e.g. gimbals}
		WARNING
		This group is not complete pending reclassification; see also group F16M 11/12
Μ	F16M 11/2057	<ul> <li>• • {for tilting and rolling (F16M 11/2078 takes precedence)}</li> </ul>
		WARNING
		This group is not complete pending reclassification; see also group F16M 11/12
Μ	F16M 11/2064	<ul> <li>• • {for tilting and panning (<u>F16M 11/2078</u> takes precedence)}</li> </ul>
		WARNING
		This group is not complete pending reclassification; see also group F16M 11/12
Μ	F16M 11/2071	• • • {for panning and rolling (F16M 11/2078 takes precedence)}
		WARNING
		This group is not complete pending reclassification; see also group F16M 11/12
M F16	F16M 11/2078	• • • {with ball-joint (ball-jointed hinges F16C 11/06)}
		WARNING
		This group is not complete pending reclassification; see also group F16M 11/14
Μ	F16M 11/2085	<ul> <li>{comprising means allowing sideward adjustment, i.e. left-right translation of the head relatively to the undercarriage}</li> </ul>
		WARNING
		This group is not complete pending reclassification; see also group F16M 11/04
Μ	F16M 11/2092	<ul> <li>{comprising means allowing depth adjustment, i.e. forward-backward translation of the head relatively to the undercarriage}</li> </ul>
		WARNING This group is not complete pending reglessification; and also group
		This group is not complete pending reclassification; see also group F16M 11/04 and F16M 11/38
U	F16M 11/24	<ul> <li>changeable in height or length of legs, also for transport only, {e.g. by means of tubes screwed into each other}(<u>F16M 11/42</u> takes precedence)</li> </ul>
М	F16M 11/242	• • • {by spreading of the legs (F16M 11/32 takes precedence)}
		WARNING
		This group is not complete pending reclassification; see also group F16M 11/24 or F16M 11/32

М	F16M 11/245	<ul> <li>• • • {Members limiting spreading of legs, e.g. "umbrella legs" (for supports with three or more telescoping legs <u>F16M 11/34</u>)}</li> </ul>
		WARNING
		this group is not complete pending a reorganisation, see also F16M 11/24 and F16M 11/34
Μ	F16M 11/247	<ul> <li>• • {Members preventing slipping of the feet (for supports with three or more telescoping legs <u>F16M 11/36</u>)}</li> </ul>
		WARNING
		this group is not complete pending a reorganisation, see also F16M 11/24 and F16M 11/36
U	F16M 11/42	<ul> <li>with arrangement for propelling the support {stands on wheels}</li> </ul>
М	F16M 11/425	<ul> <li>• {along guiding means}</li> </ul>
		WARNING
		This group is not complete pending reclassification; see also group F16M 11/42
U	F16M 13/00	Other supports for positioning apparatus or articles (heads thereof F16M 11/02 {; undercarriages thereof F16M 11/20}; adapted to be stuck in the ground A45F 3/44 {; sockets or holders for poles or posts E04H 12/22}); Means for steadying hand-held apparatus or articles {(supports for measuring instruments G01D 11/30; supports for casings of remote control switching devices H01H 9/025)}
М	F16M 13/005	<ul> <li>{integral with the apparatus or articles to be supported}</li> </ul>
		WARNING
		This group is not complete pending reclassification; see also group F16M 13/00
U	F16M 13/02	<ul> <li>for supporting on, or attaching to, an object, e.g. tree, gate, window-frame, cycle</li> </ul>
М	F16M 13/022	<ul> <li>{repositionable}</li> </ul>
		WARNING
		This group is not complete pending reclassification; see also group F16M 13/02
М	F16M 13/025	• {Corner supports}
	1 10/020	
	1 1000 10,020	WARNING
		<u>WARNING</u> This group is not complete pending reclassification; see also group F16M 13/02
М	F16M 13/027	This group is not complete pending reclassification; see also group
М		This group is not complete pending reclassification; see also group F16M 13/02

# Project: MP0400 (H01L)

U	H01L 51/00	Solid state devices using organic materials as the active part, or using a combination of organic materials with other materials as the active part; Processes or apparatus specially adapted for the manufacture or treatment of such devices, or of parts thereof (devices consisting of a plurality of components formed in or on a common substrate <u>H01L 27/28</u> ; thermoelectric devices using organic material <u>H01L 35/00</u> , <u>H01L 37/00</u> ; piezoelectric, electrostrictive or magnetostrictive elements using organic material <u>H01L 41/00</u> )
U	H01L 51/50	<ul> <li>specially adapted for light emission, e.g. organic light emitting diodes [OLED] or polymer light emitting devices [PLED]; (organic semiconductor lasers <u>H01S 5/36</u>; {circuit arrangements for OLED or PLED <u>H05B 33/0896</u>; control arrangements for organic electroluminescent displays <u>G09G 3/3208</u>})</li> </ul>
U	H01L 51/52	Details of devices
U	H01L 51/5203	• • • {Electrodes}
М	H01L 51/5206	
		WARNING Groups H01L 51/5209 – H01L 51/5218 are incomplete pending reclassification of documents from group H01L 51/5206. Groups H01L 51/5209 – H01L 51/5218 and H01L 51/5206 should be considered in order to perform a complete search.
М	H01L 51/5221	· · · {Cathodes, i.e. with low work-function material}
		WARNING Groups H01L 51/5225 – H01L 51/5234 are incomplete pending reclassification of documents from group H01L 51/5221. Groups H01L 51/5225 – H01L 51/5234 and H01L 51/5221 should be considered in order to perform a complete search.
М	H01L 51/5237	<ul> <li>• {Passivation; Containers; Encapsulation, e.g. against humidity}</li> </ul>
		WARNING Groups H01L 51/524 – H01L 51/5259 are incomplete pending reclassification of documents from group H01L 51/5237. Groups H01L 51/524 –H01L 51/5259 and H01L 51/5237 should be considered in order to perform a complete search.
Pro	ject: MP0401 (G03C	;)
	G03C 2200/00	, Details <del> (not used)</del>
Pro	ject: MP0401 (G03G	
U	G03G 2221/00	Processes not provided for by group <u>G03G 2215/00</u> , e.g. cleaning or residual charge elimination

- U G03G 2221/0026 Cleaning of foreign matter, e.g. paper powder, from imaging member
- M G03G 2221/0031 •• Type of foreign matter (not used)

# Project: MP0416 (H04W)

U	H04W 52/00	Power management, e.g. TPC [Transmission Power Control], power saving or power classes {(gain control in transmitters or power amplifiers H03G 3/3042)}
М	H04W 52/04	TPC [Transmission power control]

## Project: MP0417 in addition to RP0355 (A61F)

M A61F

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FILTERS IMPLANTABLE INTO BLOOD VESSELS; PROSTHESES;
DEVICES PROVIDING PATENCY TO, OR PREVENTING COLLAPSING OF,
TUBULAR STRUCTURES OF THE BODY, E.Ge.g. STENTS; ORTHOPAEDIC,
NURSING OR CONTRACEPTIVE DEVICES; FOMENTATION; TREATMENT
OR PROTECTION OF EYES OR EARS; BANDAGES, DRESSINGS OR
ABSORBENT PADS; FIRST-AID KITS (dental prosthetics <u>A61C</u>)
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## WARNINGS

1. The following IPC groups are not in the CPC scheme. The subject matter for these IPC groups is classified in the following CPC groups:

these in o groups is blassif	ica in the following	j or o groups.
A61F 2/48	covered by	<u>A61F 2/02</u>
A61F 2/56	covered by	<u>A61F 2/54</u>
A61F 2/62	covered by	<u>A61F 2/60</u>
<del>A61F 2/70</del>	<del>covered by</del>	A61F 2/68, A61F 2/72
A61F 2/74	covered by	<u>A61F 2/68</u>
A61F 5/045	covered by	<u>A61G 13/12</u>
A61F 5/052	covered by	<u>A61F 5/05</u>
A61F 5/447	covered by	<u>A61F 5/445</u>
A61F 5/452	covered by	<u>A61F 5/451</u>
A61F 5/457	covered by	<u>A61F 5/451</u>
A61F 5/458	covered by	<u>A61F 5/451</u>
A61F 6/10	covered by	<u>A61F 6/08</u>
A61F 9/01	covered by	<u>A61F 9/00802</u> -
		<u>A61F 9/00825</u>
A61F 9/011	covered by	<u>A61F 9/00802</u> -
		<u>A61F 9/00825</u>
A61F 13/22	covered by	<u>A61F 13/206</u>
A61F 13/24	covered by	<u>A61F 13/2037</u>
A61F 13/30	covered by	<u>A61F 13/26</u>
A61F 13/32	covered by	<u>A61F 13/26</u>
A61F 13/40	covered by	A61M 35/006

2. In this subclass non-limiting references (in the sense of paragraph 39 of the Guide to the IPC) may still be displayed in the scheme.

#### Project: MP0417 (A63D)

M A63D 13/00 BagatelleBagatelles or similar games {(pinball games A63F 7/025; pachinko A63F 7/022; apparatus for projecting or rolling-off the balls A63F 7/2409)}

#### Project: MP0417 (H02S)

M H02S GENERATION OF ELECTRIC POWER BY CONVERSION OF INFRA-RED RADIATION, VISIBLE LIGHT OR ULTRAVIOLET LIGHT, E.Ge.g. USING PHOTOVOLTAIC [PV] MODULES (obtaining electrical energy from radioactive sources G21H 1/12; light sensitive inorganic semiconductor devices H01L 31/00; thermoelectric devices H01L 35/00; pyroelectric devices H01L 37/00; light sensitive organic semiconductor devices H01L 51/42)

# Project: MP0418 (H01S)

М	H01S	DEVICES USING THE PROCESS OF LIGHT AMPLIFICA STIMULATED EMISSION OF RADIATION [LASER] TO A GENERATE LIGHT; DEVICES USING STIMULATED EM ELECTROMAGNETIC RADIATION IN WAVE RANGES ( OPTICAL	AMPLIFY OR IISSION OF
		<ul> <li>NOTE</li> <li>This subclass <u>covers</u>: <ul> <li>a. devices forusing the generation or amplification, by the emission, of coherent electromagnetic waves radiation or other forms of wave energymolecules to amplify or monochromatic electromagnetic radiation;</li> <li>b. such functions as modulating, demodulating, controll wavescoherent monochromatic electromagnetic radiation</li> </ul> </li> </ul>	on by excited atoms r generate coherent ing <del>,</del> or stabilising such
		WARNINGS1. The following IPC groups are not in the CPC scheme. Tthese IPC groups is classified in the following CPC groupsH01S 3/098covered byH01S 3and s.g	: / <u>08018, H01S 3/11</u>
		2. In this subclass non-limiting references (in the sense of Guide to the IPC) may still be displayed in the scheme.	paragraph 39 of the
М	H01S 1/00	LasersMasers, i.e. devices for generation, amplification demodulation, or frequency-changing, using stimulate of electromagnetic waves of wavelength longer than the waves radiation in the microwave range	ed emission <mark>,</mark>
М	H01S 1/06	<ul> <li>gaseous Gaseous {, i.e. beam masers (atomic clocks G0 beam masers as a reference frequency for regulating free H03L 7/26; molecular or atomic beam generation H05H</li> </ul>	quency of oscillators
М	H01S 3/00	Lasers, i.e. devices for generation, amplification, mode demodulation, or frequency-changing, using stimulate redelectromagnetic radiation in the infrared, visible, o ultraviolet wave range ({stimulated Brillouin or Raman semiconductor lasers H01S 5/00 semiconductors laser	ed emission <del>,</del> of <del>infra-</del> r <del>ultra-violet waves</del> <del>effects H01S 3/30} ;</del>
U	H01S 3/02	Constructional details {(housings or packages of fibre las	sers <u>H01S 3/06704</u> )}
М	H01S 3/03	<ul> <li>of gas laser discharge tubes {(gas discharge tubes in ( H01J 61/00)}</li> </ul>	<del>general H01J 17/00,</del>
Μ	H01S 3/036	<ul> <li>Means for obtaining or maintaining the desired gas p tube, e.g. by gettering, replenishing; Means for circul equalising the pressure within the tube {(H01S 3/031 cooling arrangements for gas lasers H01S 3/041; gat H01S 3/0979; in general H01J 17/22, H01J 61/24)}</li> </ul>	ating the gas, e.g. for takes precedence <del>;</del>
U	H01S 3/05	<ul> <li>Construction or shape of optical resonators; Accommoda therein; Shape of active medium</li> </ul>	ation of active medium
U	H01S 3/06	Construction or shape of active medium	
U	H01S 3/063	<ul> <li>Waveguide lasers, {i.e. whereby the dimensions of the order of the light wavelength (waveguide gas lasers)</li> </ul>	-
Μ	H01S 3/067	<ul> <li>Fibre lasers -{(optical pumping thereof H01S 3/094) output parameters H01S 3/10; stabilisation of the of H01S 3/13; characterised by scattering effects, i.e. Raman effects, H01S 3/302)}</li> </ul>	output parameters

Μ	H01S 3/08	<ul> <li>Construction or shape of optical resonators or components thereof {(waveguide lasers <u>H01S 3/063; controlling the laser output H01S 3/10;</u> <u>stabilising H01S 3/13</u>)}</li> </ul>
U	H01S 3/081	• • • comprising more than two reflectors {(folded-path gas lasers H01S 3/076)}
Μ	H01S 3/083	<ul> <li>Ring lasers {(ring laser gyrometers G01C 19/66; {fibre ring lasers H01S 3/06791})}</li> </ul>
U	H01S 3/09	<ul> <li>Processes or apparatus for excitation, e.g. pumping</li> </ul>
М	H01S 3/095	<ul> <li>using chemical or thermal pumping {(generating plasma, e.g. by combustion H02K 44/00, H05H 1/24)}</li> </ul>
Μ	H01S 3/10	<ul> <li>Controlling the intensity, frequency, phase, polarisation or direction of the emitted radiation, e.g. switching, gating, modulating or demodulating (mode locking {H01S 3/1106}; controlling of light beams, frequency-changing, non-linear optics, optical logic elements, in general G02F)</li> <li><u>NOTE</u></li> <li>Group H01S 3/10007 takes precedence over groups H01S 3/102 - H01S 3/104</li> </ul>
Μ	H01S 3/101	<ul> <li>Lasers provided with means to change the location from which, or the direction in which, laser radiation is emitted (optical-mechanical scanning systems in general G02B 26/10; electro-, magneto- or acousto-optical deflection G02F 1/29; {control of position or direction of light beam generating device in general G05D 3/00})</li> </ul>
U	H01S 3/14	<ul> <li>characterised by the material used as the active medium</li> </ul>
U	H01S 3/16	Solid materials
М	H01S 3/17	<ul> <li>• • amorphous, e.g. glass <del>{(glass manufacture, shaping or supplementary processes C03B; compositions for laserable glass C03C 4/0071)}</del></li> </ul>
М	H01S 4/00	Devices using stimulated emission or of electromagnetic radiation in wave energy ranges other than those covered by groups H01S 1/00 or , H01S 3/00 or H01S 5/00, e.g. phonon maser masers, X-ray lasers or gamma maser-ray lasers
м	H01S 4/00 H01S 5/00	energyranges other than those covered by groups H01S 1/00 or , H01S 3/00 or H01S 5/00, e.g. phonon masermasers, X-ray lasers or gamma maser-ray
		energyranges other than those covered by groups H01S 1/00 or , H01S 3/00 or H01S 5/00, e.g. phonon masermasers, X-ray lasers or gamma maser-ray lasers
		energyranges other than those covered by groups H01S 1/00-or , H01S 3/00 or H01S 5/00, e.g. phonon masermasers, X-ray lasers or gamma-maser-ray lasers Semiconductor lasers {(superluminescent diodes {H01L 33/0045})} NOTE Attention is drawn to Special Rules of classification at C07F, which Special Rules indicate to which version of the periodic table of chemical elements CPC refers. In this group, the Periodic System used is the 8 group system indicated by
М	H01S 5/00	energyranges other than those covered by groups H01S 1/00 or , H01S 3/00 or H01S 5/00, e.g. phonon masermasers, X-ray lasers or gamma maser-ray lasers Semiconductor lasers {(superluminescent diodes {H01L 33/0045})} NOTE Attention is drawn to Special Rules of classification at C07F, which Special Rules indicate to which version of the periodic table of chemical elements CPC refers. In this group, the Periodic System used is the 8 group system indicated by Roman numerals in the Periodic Table thereunder.
M	H01S 5/00	<ul> <li>energyranges other than those covered by groups H01S 1/00 or , H01S 3/00 or H01S 5/00, e.g. phonon maser masers, X-ray lasers or gamma maser-ray lasers</li> <li>Semiconductor lasers {(superluminescent diodes {H01L 33/0045})}</li> <li><u>NOTE</u></li> <li>Attention is drawn to Special Rules of classification at C07F, which Special Rules indicate to which version of the periodic table of chemical elements CPC refers. In this group, the Periodic System used is the 8 group system indicated by Roman numerals in the Periodic Table thereunder.</li> <li>Structural details or components not essential to laser action</li> <li>Mountings; Housings {(packaging and electrical lead-through per se})</li> </ul>
<b>M</b> U M	H01S 5/00 H01S 5/02 H01S 5/022	<ul> <li>energyranges other than those covered by groups H01S 1/00 or , H01S 3/00 or H01S 5/00, e.g. phonon maser masers, X-ray lasers or gamma maser-ray lasers</li> <li>Semiconductor lasers {(superluminescent diodes {H01L 33/0045})}</li> <li>NOTE Attention is drawn to Special Rules of classification at C07F, which Special Rules indicate to which version of the periodic table of chemical elements CPC refers. In this group, the Periodic System used is the 8 group system indicated by Roman numerals in the Periodic Table thereunder. Structural details or components not essential to laser action • Mountings; Housings {(packaging and electrical lead-through per se H01L 23/00)} • Cooling arrangements {(cooling solid state junction devices H01L 23/34;</li></ul>
<b>м</b> U M	H01S 5/00 H01S 5/02 H01S 5/022 H01S 5/024	<ul> <li>energyranges other than those covered by groups H01S 1/00-or , H01S 3/00 or H01S 5/00, e.g. phonon maser masers, X-ray lasers or gamma maser-ray lasers</li> <li>Semiconductor lasers {(superluminescent diodes {H01L 33/0045})}</li> <li><u>NOTE</u></li> <li>Attention is drawn to Special Rules of classification at C07F, which Special Rules indicate to which version of the periodic table of chemical elements CPC refers. In this group, the Periodic System used is the 8 group system indicated by Roman numerals in the Periodic Table thereunder.</li> <li>Structural details or components not essential to laser action</li> <li>Mountings; Housings {(packaging and electrical lead-through per se H01L 23/00)}</li> <li>Cooling arrangements {(cooling solid state junction devices H01L 23/34; heating arrangements; H01S 5/0261 takes precedence)}</li> <li>Monolithically integrated components, e.g. waveguides, monitoring photo- detectors, drivers (stabilisation of output H01S 5/06; coupling light guides with opto-electronic elements G02B 6/42; devices consisting of a plurality of semiconductor or other solid state components formed in or on a common</li> </ul>

# Project: MP0419 (A63D)

М	A63D	BOWLING-ALLEYS GAMES, e.g. SKITTLES, BOCCE OR BOWLS; BOWLING GAMESINSTALLATIONS THEREFOR; BOCCIA; BOWLS; BAGATELLE OR SIMILAR GAMES; BILLIARDS (balls A63B A63B 37/00; indoor games using small moving playing bodies, e.g. balls, A63F 7/00)
М	A63D 1/00	Bowling-alleys; Boccia Installations for bowling games, e.g. bowling-alleys or bocce courts (bowling greens <u>A63C 19/00</u> )
М	A63D 3/00	Table <mark>alleysbowling games</mark> ; Miniature bowling-alleys; Bowling games ( <del>coin-freed G07F</del> games of pins <u>A63D 7/00</u> )
М	A63D 15/00	Billiards, <del>{</del> e.g. carom billiards <del>} <i>or pocket billiards</i>;</del> Billiard tables <u>(bagatelle</u> <u>A63D 13/00); Pocket billiards, {i.e. pool}</u>
Μ	A63D 15/20	<ul> <li>Scoring or registering devices ({scoring devices for other games or sports A63B 71/06}; counting mechanisms in general G06M; {time counting G07C; displaying in general G09F})</li> </ul>

# Project: MP0432 (H05K)

Μ	Н05К	PRINTED CIRCUITS; CASINGS OR CONSTRUCTIONAL DETAILS OF ELECTRIC APPARATUS; MANUFACTURE OF ASSEMBLAGES OF ELECTRICAL COMPONENTS (details of instruments or comparable details of other apparatus not otherwise provided for G12B; thin-film or thick-film circuits H01L 27/01, H01L 27/13; non-printed means for electric connections to or between printed circuits {, electric connections or line connectors, apparatus or processes for manufacturing, assembling, maintaining or repairing such connections or connectors} H01R; casings for, or constructional details of, particular types of apparatus, see the relevant subclasses; processes involving only a single technical art, e.g. heating, spraying, for which provision exists elsewhere, see the relevant classes)
		NOTES
		<ol> <li>This subclass <u>covers</u>:         <ul> <li>combinations of a radio or television receiver with <u>apparatus</u> <u>apparatus</u> having a different main function;</li> <li>printed circuits structurally associated with non-printed electric components;.</li> <li>{printed connectors (non printed connectors H01R)}</li> </ul> </li> </ol>
		<ul> <li>2. In this subclass, the following expression is used with the meaning indicated:</li> <li>"printed circuits" covers all kinds of mechanical constructions of circuits that consist of an insulating base or support carrying the conductor and are combined structurally with the conductor throughout their length, especially in a two-dimensional plane, the conductors of which are secured to the base in a non-dismountable manner, and also covers the processes or apparatus apparatus for manufacturing such constructions, e.g. forming the circuit by mechanical or chemical treatment treatment of a conductive foil, paste, or film on an insulating support.</li> </ul>
		WARNING In this subclass non-limiting references (in the sense of paragraph 39 of the Guide to the IPC) may still be displayed in the scheme.
м	H05K 1/00	Printed circuits (assemblies of a plurality of individual semiconductor or solid state devices H01L 25/00; devices consisting of a plurality of solid state components formed in or on a common substrate, e.g. integrated circuits, thin-film or thick-film circuits, H01L 27/00)
U	H05K 1/02	Details

Μ	H05K 1/0213	<ul> <li>{Electrical arrangements not otherwise provided for (screening H05K 9/00; emergency protective circuits H02H)}</li> </ul>
Μ	H05K 1/0216	<ul> <li>• {Reduction of cross-talk, and noise or electromagnetic interference (grounding H05K 1/0215)}</li> </ul>
U	H05K 1/0218	<ul> <li>• • {by printed shielding conductors, ground planes or power plane (<u>H05K 1/0236</u> takes precedence)}</li> </ul>
U	H05K 1/0219	<ul> <li>Printed shielding conductors for shielding around or between signal conductors, e.g. coplanar or coaxial printed shielding conductors}</li> </ul>
Μ	H05K 1/0221	<ul> <li>         • • • • {Coaxially shielded signal lines comprising a continuous shielding layer partially or wholly surrounding the signal lines (coaxially shielded vias H05K 1/0222)}     </li> </ul>
Μ	H05K 1/0236	<ul> <li>• • • {Electromagnetic band-gap structures (conductive planes with an opening or a split H05K 1/0225, H05K 1/0227)}</li> </ul>
U	H05K 1/0254	<ul> <li>• {High voltage adaptations; Electrical insulation details; Overvoltage or electrostatic discharge protection (electrostatic discharge protection for electric apparatus in general <u>H05K 9/0067</u>, <u>H05K 9/0079</u>); Arrangements for regulating voltages or for using plural voltages}</li> </ul>
U	H05K 1/0257	· · · {Overvoltage protection}
М	H05K 1/026	・・・・{Spark gaps <del>(spark gaps <u>per se</u> H01T)</del> }
Μ	H05K 1/0275	<ul> <li>{Security details, e.g. tampering prevention or detection (security details of computer components G06F 21/70)}</li> </ul>
Μ	H05K 1/03	<ul> <li>Use of materials for the substrate {(substrates for semiconductor chips H01L 23/00)}</li> </ul>
М	H05K 1/05	<ul> <li>Insulated metal substrate {or other {conductive substrates, e.g. insulated electrically conductive } metal substrate (thermal coupling of mounted components and metal substrate H05K 1/0204, H05K 1/021)}</li> </ul>
Μ	H05K 1/09	<ul> <li>Use of materials for the metallic pattern {or other conductive {conductive, e.g. } metallic pattern (materials for conductors H01B 1/00)}</li> </ul>
Μ	H05K 1/092	<ul> <li>• {Dispersed materials, e.g. conductive pastes or inks (conductive material dispersed in non-conductive material in general H01B 1/14 - H01B 1/24; conductive inks in general C09D 11/52)}</li> </ul>
Μ	H05K 1/14	<ul> <li>Structural association of two or more printed circuits (providing electric connection to or between printed circuits <u>H05K 1/11</u>, <u>H01R 9/09H01R 12/00</u>, <u>H01R 23/68</u>)</li> </ul>
Μ	H05K 1/16	<ul> <li>incorporating printed electric components, e.g. printed resistor, capacitor, inductor</li></ul>
М	H05K 3/00	Apparatus or processes for manufacturing printed circuits (photomechanical production of textured or patterned surfaces, materials or originals therefor, apparatus specially adapted therefor, in general G03F; involving the manufacture of semiconductor devices H01L)
М	H05K 3/0011	<ul> <li>{Working of insulating substrates or insulating layers (making copper-clad substrates H05K 3/022; surface treatment for improvement of adhesion H05K 3/381)}</li> </ul>
U	H05K 3/02	<ul> <li>in which the conductive material is applied to the surface of the insulating support and is thereafter removed from such areas of the surface which are not intended for current conducting or shielding</li> </ul>
Μ	H05K 3/022	<ul> <li>{Processes for manufacturing precursors of printed circuits, i.e. copper-clad substrates (laminates in general B32B)}</li> </ul>
Μ	H05K 3/027	<ul> <li>{the conductive material being removed by irradiation, e.g. by photons, alpha, or beta particles (machining by laser in general B23K 26/00; electron - or ion beam tubes therefor H01J 37/00)}</li> </ul>

Μ	H05K 3/06	<ul> <li>the conductive material being removed chemically or electrolytically, e.g. by photo-etch process {(non-mechanical removal of metallic material from surfaces C23F; semi-additive methods H05K 3/108)}</li> </ul>
Μ	H05K 3/061	<ul> <li>• • {Etching masks (local etching C23F 1/02)}</li> </ul>
М	H05K 3/065	<ul> <li>• • {applied by electrographic, electrophotographic or magnetographic methods (in general G03G)}</li> </ul>
Μ	H05K 3/067	<ul> <li>• • {Etchants (in general C23F 1/10 - C23F 1/46)}</li> </ul>
М	H05K 3/068	<ul> <li>• • {Apparatus for etching printed circuits (in general C23F 1/08)}</li> </ul>
Μ	H05K 3/08	<ul> <li>the conductive material being removed by electric discharge, e.g. by spark erosion {(working of metal by electro-erosion per se B23H)}</li> </ul>
U	H05K 3/10	<ul> <li>in which conductive material is applied to the insulating support in such a manner as to form the desired conductive pattern</li> </ul>
U	H05K 3/105	<ul> <li>{by conversion of non-conductive material on or in the support into conductive material, e.g. by using an energy beam}</li> </ul>
Μ	H05K 3/106	<ul> <li>• • {by photographic methods (in general G03C)}</li> </ul>
Μ	H05K 3/12	<ul> <li>using {thick film techniques, e.g.} printing techniques to apply the conductive material {or similar techniques for applying conductive paste or ink patterns (printing techniques in general B41M, printing apparatus B41F)}</li> </ul>
U	H05K 3/1216	<ul> <li>• • {by screen printing or stencil printing}</li> </ul>
Μ	H05K 3/1225	<ul> <li>• • • {Screens or stencils (in general B41N 1/24; manufacturing of screens or stencils B41C 1/14); Holders therefor (stencil holders for applying liquids B05C 17/08)}</li> </ul>
U	H05K 3/1241	<ul> <li>• • {by ink-jet printing or drawing by dispensing}</li> </ul>
М	H05K 3/125	<ul> <li>• • • {by ink-jet printing-(in general B41J)}</li> </ul>
М	H05K 3/1266	<ul> <li>• • {by electrographic or magnetographic printing (in general G03G)}</li> </ul>
Μ	H05K 3/14	<ul> <li>using spraying techniques to apply the conductive material {including , e.g. vapour evaporation}; (covering metals by metal spraying C23C 4/00; coating by vacuum evaporation C23C 14/00)}</li> </ul>
Μ	H05K 3/16	<ul> <li>• • by cathodic sputtering-{(covering materials by cathodic sputtering C23C 14/34; discharge devices therefor H01J 37/34)}</li> </ul>
Μ	H05K 3/18	<ul> <li>using precipitation techniques to apply the conductive material {(chemical coating of a substrate by decomposition C23C 18/00)}</li> </ul>
Μ	H05K 3/181	<ul> <li>• {by electroless plating (adhesives therefor <u>H05K 3/387; electroless plating</u> in general C23C 18/16)}</li> </ul>
U	H05K 3/22	<ul> <li>Secondary treatment of printed circuits {(<u>H05K 3/1283</u> takes precedence; embedding circuits in grooves by pressure <u>H05K 3/107</u>)}</li> </ul>
U	H05K 3/24	<ul> <li>Reinforcing the conductive pattern {(by solder coating <u>H05K 3/3457</u>)}</li> </ul>
Μ	H05K 3/241	<ul> <li>• {characterised by the electroplating method; means therefor, e.g. baths, or apparatus (electroplating in general C25D)}</li> </ul>
U	H05K 3/30	<ul> <li>Assembling printed circuits with electric components, e.g. with resistor</li> </ul>
U	H05K 3/32	<ul> <li>electrically connecting electric components or wires to printed circuits</li> </ul>
М	H05K 3/321	<ul> <li>• • {by conductive adhesive adhesives}(in general H01R 4/04)}</li> </ul>
Μ	H05K 3/34	<ul> <li>• by soldering {(soldering or desoldering apparatus H05K 13/04, B23K 1/00, B23K 3/00)}</li> </ul>
Μ	H05K 3/3457	<ul> <li>• • • {Solder materials or compositions (solder compositions per se B23K 35/24); Methods of application thereof}</li> </ul>
Μ	H05K 3/38	<ul> <li>Improvement of the adhesion between the insulating substrate and the metal (Laminates per se B32B)</li> </ul>

U	H05K 3/40	<ul> <li>Forming printed elements for providing electric connections to or between printed circuits</li> </ul>
Μ	H05K 3/4038	<ul> <li>              {Through-connections; {Through-connections or via Vertical interconnect access [VIA] connections (H05K 3/403 and , H05K 3/42 take precedence)      </li> </ul>
Μ	H05K 3/46	<ul> <li>Manufacturing multilayer circuits {(incorporating non-printed electric components in internal layers H05K 1/185)}</li> </ul>
М	H05K 5/00	Casings, cabinets or drawers for electric apparatus (in general A47B; radio receiver cabinets H04B 1/08; television receiver cabinets H04N 5/64 {; constructional details or arrangements for computers G06F 1/16})
U	H05K 7/00	Constructional details common to different types of electric apparatus (casings, cabinets, drawers <u>H05K 5/00</u> )
U	H05K 7/02	<ul> <li>Arrangements of circuit components or wiring on supporting structure</li> </ul>
Μ	H05K 7/10	<ul> <li>Plug-in assemblages of components {, e.g. IC sockets (for connection on printed circuit board H01R 23/6806)}</li> </ul>
Μ	H05K 7/12	<ul> <li>Resilient or clamping means for holding component to structure (holding two- part couplings together H01R 13/00)</li> </ul>
Μ	H05K 7/14	<ul> <li>Mounting supporting structure in casing or on frame or rack {(H05K 7/18 takes precedence; test adapters G01R 31/2808)}</li> </ul>
Μ	H05K 7/1462	<ul> <li>• {for programmable logic controllers [PLC] for automation and/or industrial process control (programmable logic controllers per se G05B 19/05)}</li> </ul>
U	H05K 7/1468	<ul> <li>• • {Mechanical features of input/output (I/O) modules}</li> </ul>
Μ	H05K 7/1469	<ul> <li>• • • {Terminal blocks for connecting sensors (terminal blocks in general H01R 9/24)}</li> </ul>
Μ	H05K 7/20	<ul> <li>Modifications to facilitate cooling, ventilating, or heating {(of printed circuits H05K 1/0201; of resistors H01C; of capacitors H01G; of individual semiconductor components H01L 23/34, H01L 31/024; of LEDs H01L 33/64; of personal computers G06F 1/20)}</li> </ul>
U	H05K 7/20009	<ul> <li>{using a gaseous coolant in electronic enclosures (in cabinets of standardized dimensions <u>H05K 7/20536</u>; in server cabinets <u>H05K 7/20709</u>; in vehicle electronic casings <u>H05K 7/20845</u>; in power control electronics <u>H05K 7/2089</u>; in displays <u>H05K 7/20954</u>)}</li> </ul>
U	H05K 7/20136	<ul> <li>• • {Forced ventilation, e.g. by fans (<u>H05K 7/202</u> takes precedence)}</li> </ul>
М	H05K 7/20172	•••• {Fan mounting or fan specifications (blowers in general F04D 29/601)}
М	H05K 7/20181	•••• {Filters; Louvers (filters in general B01D 46/00)}
Μ	H05K 7/20954	<ul> <li>{for display panels (cooling means for computer displays G06F 1/20; heating or cooling of liquid crystal cells G02F 1/133382; cooling for projectors G03B 21/16; plasma display panels per se H01J 17/49)}</li> </ul>
U	H05K 9/00	Screening of apparatus or components against electric or magnetic fields (devices for absorbing radiation from an antenna H01Q 17/00)
Μ	H05K 9/0001	<ul> <li>{Rooms, or chambers (building construction in general E04B; anechoic room chambers G01R 29/0821; nuclear magnetic resonance G01R 33/42)}</li> </ul>
Μ	H05K 9/0005	<ul> <li>{Shielded windows (window for building construction in general E06B 5/00)}</li> </ul>
М	H05K 9/0066	<ul> <li>{Constructional details of transient suppressor (protective circuit H02H)}</li> </ul>
Μ	H05K 9/0067	<ul> <li>{Devices for protecting against damage from electrostatic discharge (materials see H05K 9/0079)}</li> </ul>
U	H05K 9/0073	<ul> <li>{Shielding materials (<u>H05K 9/0003</u> takes precedence)}</li> </ul>
Μ	H05K 9/0075	<ul> <li>• {Magnetic shielding materials (magnetic material in general H01F 1/00; for electrical motor H02K 11/00; for transformer H01F 27/28)}</li> </ul>
Μ	H05K 9/0077	<ul> <li>• • {comprising superconductors (superconductors in general H01L 39/00)}</li> </ul>

U	H05K 9/0081	<ul> <li>{Electromagnetic shielding materials, e.g. EMI, RFI shielding (<u>H05K 9/0003</u> takes precedence)}</li> </ul>
Μ	H05K 9/009	<ul> <li>• {comprising electro-conductive fibres, e.g. metal fibres, carbon fibres, metallised textile fibres, electro-conductive mesh, woven, non-woven mat, fleece, cross-linked (screening during electrotherapy A61N 1/16)}</li> </ul>
U	H05K 13/00	Apparatus or processes specially adapted for manufacturing or adjusting assemblages of electric components
Μ	H05K 13/0053	<ul> <li>{MeansArrangements for helping with assisting the manual mounting of components, e.g. special tables, or light spots indicating the place for mounting (handtools H05K 13/0447)}</li> </ul>
М	H05K 13/02	<ul> <li>Feeding of components (in general B65G)</li> </ul>

# Project: MP0434 (G06F)

U	G06F 1/00	Details not covered by groups <u>G06F 3/00</u> – <u>G06F 13/00</u> and <u>G06F 21/00</u> (architectures of general purpose stored program computers <u>G06F 15/76</u> )
U	G06F 1/26	<ul> <li>Power supply means, e.g. regulation thereof (for memories G11C)</li> </ul>
U	G06F 1/32	Means for saving power
Μ	G06F 1/3203	<ul> <li>• {Power Managementmanagement, i.e. event-based initiation of power- saving mode}</li> </ul>
Μ	G06F 1/3206	<ul> <li>• • • {Monitoring a parameterof events, a device devices or an event triggeringparameters that trigger a change in power modality}</li> </ul>
Μ	G06F 1/3209	<ul> <li>         • • • {Monitoring remote activity, e.g. over telephone line, lines or network         <del>connection}connections     </del></li> </ul>
Μ	G06F 1/3212	<ul> <li> {Monitoring battery level/evels, i.ee.g. power saving action mode being initiated when battery voltage goes below a certain level}</li> </ul>
М	G06F 1/3215	• • • • {Monitoring of peripheral devices}
М	G06F 1/3218	••••• <mark>{</mark> of display devices <mark>}</mark>
М	G06F 1/3221	•••••• <del>{</del> of disk drive devices <del>}</del>
М	G06F 1/3225	••••• <mark>{</mark> of memory devices <del>}</del>
Μ	G06F 1/3228	<ul> <li>         • • • {Monitoring task completion, e.g. by use of idle timertimers, STOP command, WAIT command}stop commands or wait commands     </li> </ul>
М	G06F 1/3231	••••• {Monitoring user the presence-, absence or absence} movement of users
Μ	G06F 1/3234	
М	G06F 1/3237	• • • • {Power saving by disabling clock generation or distribution}
М	G06F 1/324	{Power saving by lowering clock frequency}
М	G06F 1/3246	••••      {Power saving by software initiated power-off}
Μ	G06F 1/3287	<ul> <li> <ul> <li></li></ul></li></ul>
М	G06F 1/329	•••• <del>{Power saving</del> by task scheduling <del>}</del>
Μ	G06F 1/3293	<ul> <li> {Power saving by switching to a less powerconsuming processor, e.g. sub-CPU}</li> </ul>
М	G06F 1/3296	•••• {Power saving by lowering the supply or operating voltage}

# Project: MP0435 (B05B)

U	B05B 1/00	Nozzles, spray heads or other outlets, with or without auxiliary devices such as valves, heating means (B05B 3/00, B05B 5/00, B05B 7/00 take precedence; {nozzles for baths with water or gas jets A61H 33/00, e.g. A61H 33/6063, A61H 33/6021, A61H 33/026 or A61H 33/027; Nozzles specially adapted for fire-extinguishing A62C 31/02; Nozzles for generating high velocity abrasive fluid jets B24C 5/04;} nozzles for jet-ink printing mechanisms B41J 2/135; {nozzles for filling containers B65B 39/00;} nozzles for liquid-dispensing, e.g. in vehicle service stations B67D 7/42) WARNING Group B05B 1/00 is impacted by reclassification into group B05B 1/002. Groups B05B 1/00 and B05B 1/002 should be considered to perform a complete	
		search.	
Μ	B05B 1/12	<ul> <li>capable of producing different kinds of discharge, e.g. either jet or spray (B05B 1/16 takes precedence having selectively-effective outlets B05B 1/16)</li> </ul>	
М	B05B 1/34	<ul> <li>designed to influence the nature of flow of the liquid or other fluent material, e.g. to produce swirl (B05B 1/30 takes precedencedesigned to control volume of flow B05B 1/30)</li> </ul>	
		$\frac{\text{WARNING}}{\text{Group } \underline{\text{B05B } 1/34}}$ is impacted by reclassification into group $\frac{\text{B05B } 1/34}{\text{B05B } 1/34}$ and $\frac{\text{B05B } 1/3402}{\text{B05B } 1/3402}$ should be considered to perform a complete search.	
М	B05B 3/00	Spraying or sprinkling apparatus with moving outlet elements or moving deflecting elements ( <u>B05B 5/00</u> takes precedence){; {Spraying or sprinkling heads with rotating elements located upstream the outlet}	
Μ	B05B 5/10	<ul> <li>Arrangements for supplying power, e.g. charging power (B05B 5/053 takes precedence in discharge apparatus B05B 5/053)</li> </ul>	
U	B05B 7/00	Spraying apparatus for discharge of liquids or other fluent materials from two or more sources, e.g. of liquid and air, of powder and gas ( <u>B05B 3/00,</u> <u>B05B 5/00</u> {, <u>B05B 11/06</u> } take precedence)	
Μ	B05B 7/02	- Spray pistols; Apparatus for discharge (B05B 7/14, B05B 7/16, B05B 7/24 take precedence for spraying particulate material B05B 7/14; with means for heating the material to be sprayed B05B 7/16; with means for supplying fluent material to a discharge device B05B 7/24)	

## Project: MP0436 (F22D)

M F22D PREHEATING, OR ACCUMULATING PREHEATED, FEED-WATER FOR STEAM GENERATION; FEED-WATER SUPPLY FOR STEAM GENERATION; CONTROLLING WATER LEVEL FOR STEAM GENERATION; AUXILIARY DEVICES FOR PROMOTING WATER CIRCULATION WITHIN BOILERS STEAM BOILERS(chemical treatment of water, e.g. purification, C02F; enclosed heat-exchange apparatus in general F28D; controlling in general G05)

# WARNING

In this subclass non-limiting references (in the sense of paragraph 39 of the Guide to the IPC) may still be displayed in the scheme.

# Project: MP0437 (F21L)

М	F21L 2/00	Systems of <u>electric</u> lighting devices (systems employing both electric and non-electric light sources or exchangeable light sources F21L 27/00)		
		WARNING Group F21L 2/00 is incomplete pending reclassification of documents from groups F21L 15/00 - F21L 15/14, F21L 2001/00, F21L 2003/00, F21L 2005/00		
		and <u>F21L 25/00</u> . All groups listed in this Warning should be considered in order to perform a complete search.		
Μ	F21L 27/00	Lighting devices or systems, employing combinations of electric and nonelectric light sources; Replacing or exchanging electric light sources with non-electric light sources or <u>vice versa</u> in lighting devices or systems		
Pro	Project: MP0437 (F41G)			
U	F41G 1/00	Sighting devices (for indirect laying of fire <u>F41G 3/16</u> ; bombsights		

		F41G 3/24 {; structurally associated with laser telemeters F41G 3/065; mounting tubular or beam shaped aiming devices on firearms F41G 11/001})
U	F41G 1/32	<ul> <li>Night sights, e.g. luminescent {(optical aspects of sighting devices <u>G02B 23/00</u>, G02B 27/00)}</li> </ul>

F41G 1/34 • • combined with light source, e.g. spot-light Μ

# Project: MP0437 (G02B)

G02B 26/00 Μ Optical devices or arrangements using movable or deformable optical elements for controlling the intensity, colour, phase, polarisation or direction of light, e.g. switching, gating, modulating (mechanically operable parts of lighting devices for the control of light order F21V; specially adapted for measuring characteristics of light G01J; using devices or arrangements the optical operation of which is modified by changing the optical properties of the medium of the devices or the arrangements G02F 1/00; devices or arrangements, the optical operation of which is modified by changing the optical properties of the medium of the devices or arrangements G02F 1/00; control of light in general G05D 25/00; control of light sources H01S 3/10, H05B 37/00 - H05B 43/00; mechanically operable parts of lighting devices for the control of light F21V)

## Project: MP0437 (G03B)

U	G03B 27/00	Photographic printing apparatus
U	G03B 27/02	<ul> <li>Exposure apparatus for contact printing</li> </ul>
Μ	G03B 27/04	<ul> <li>Copying apparatus without a relative movement between the original and the light source during exposure, e.g. printing frame, or printing box</li> </ul>

# Project: MP0437 (G09F)

- U G09F 13/00 Illuminated signs; Luminous advertising (G09F 9/00, G09F 11/00 take precedence; control of displays in general using static means to present variable information G09G)
- G09F 13/44 • with gas as a lighting source М

## Project: MP0437 (H01J)

U	H01J 61/00	Gas- or vapour-discharge lamps (use for sterilising milk products <u>A23C</u> ; use for medical purposes <u>A61N 5/00</u> ; use for disinfecting water <u>C02F</u> ; use for lighting <u>F21</u> ; {use for advertising <u>G09F</u> }; circuits therefor <u>H05B</u> ; arc lamps with consumable electrodes <u>H05B</u> ; electroluminescent lamps <u>H05B</u> )	
Μ	H01J 61/96	<ul> <li>Lamps with light-emitting discharge path and separately-heated incandescent body within a common envelope, e.g. for simulating daylight (lamps with filament heated only by non-luminous discharge H01K)</li> </ul>	
Pro	ject: MP0437 (H01	К)	
for manufacture applicable to both discharge devices and include lamps <u>H01J;</u> light sources using a combination of incandesc		ELECTRIC INCANDESCENT LAMPS (details or , apparatus or processes for manufacture applicable to both discharge devices and incandescent lamps H01J; light sources using a combination of incandescent and other types of light generation H01J 61/96, H05B 35/00; circuits therefor H05B)	
		NOTE In this subclass, the following term is used with the meaning indicated: • "lamp" includes tubes emitting ultra-violet or infra-red light.	
		<u>WARNING</u> In this subclass non-limiting references (in the sense of paragraph 39 of the Guide to the IPC) may still be displayed in the scheme.	
U	H01K 7/00	Lamps for purposes other than general lighting ( <u>H01K 9/00</u> - <u>H01K 13/00</u> take precedence)	
М	H01K 7/02	<ul> <li>for producing a narrow beam of light; for approximating a pointlike source of light, e.g. for searchlight, for cinematographic projector (producing narrow beams by optical means external to lamp F21producing narrow beams by optical means external to lamp F21V)</li> </ul>	
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## Project: MP0437 (H01L)

H01L SEMICONDUCTOR DEVICES; ELECTRIC SOLID STATE DEVICES Μ NOT OTHERWISE PROVIDED FOR (use of semiconductor devices for measuring G01; resistors in general H01C; magnets, inductors {in general} , transformers H01F; capacitors in general H01G; electrolytic devices H01G 9/00; batteries, accumulators H01M; waveguides, resonators, or lines of the waveguide type H01P; line connectors, current collectors H01R; stimulated emission devices H01S; stimulated-emission devices H01S; electromechanical resonators H03H; loudspeakers, microphones, gramophone pick-ups or like acoustic electromechanical transducers H04R; electric light sources in general H05B; printed circuits, hybrid circuits, casings or constructional details of electricelectrical apparatus, manufacture of assemblages of electrical components H05K; use of semiconductor devices in circuits having a particular application, see the subclass for the application)

#### <u>NOTES</u>

- 1. This subclass covers:
  - electric solid state devices which are not covered by any other subclass and details thereof, and includes: semiconductor devices adapted for rectifying, amplifying, oscillating or switching; semiconductor devices sensitive to radiation; electric solid state devices using thermoelectric, superconductive, piezo-electric, electrostrictive, magnetostrictive, galvanomagnetic or bulk negative resistance effects and integrated circuit devices;
  - photoresistors, magnetic field dependent resistors, field effect resistors, capacitors with potential-jump barrier, resistors with potential-jump barrier

or surface barrier, incoherent light emitting diodes and thin-film or thick-film circuits;

 processes and apparatus adapted for the manufacture or treatment of such devices, except where such processes relate to single-step processes for which provision exists elsewhere.

2. In this subclass, the following terms or expressions are used with the meaning indicated:

- "wafer" means a slice of semiconductor or crystalline substrate material, which can be modified by impurity diffusion (doping), ion implantation or epitaxy, and whose active surface can be processed into arrays of discrete components or integrated circuits;
- "solid state body" means the body of material within which, or at the surface of which, the physical effects characteristic of the device occur. In thermoelectric devices, it includes all materials in the current path. Regions in or on the body of the device (other than the solid state body itself), which exert an influence on the solid state body electrically, are considered to be "electrodes" whether or not an external electrical connection is made thereto. An electrode may include several portions and the term includes metallic regions which exert influence on the solid state body through an insulating region (e.g. capacitive coupling) and inductive coupling arrangements to the body. The dielectric region in a capacitive arrangement is regarded as part of the electrode. In arrangements including several portions, only those portions which exert an influence on the solid state body by virtue of their shape, size, or disposition or the material of which they are formed are considered to be part of the electrode. The other portions are considered to be "arrangements for conducting electric current to or from the solid state body" or "interconnections between solid state components formed in or on a common substrate", i .e. leads;
- "device" means an electric circuit element; where an electric circuit element is one of a plurality of elements formed in or on a common substrate it is referred to as a "component";
- "complete device" is a device in its fully assembled state which may or may not require further treatment, e.g. electroforming, before it is ready for use but which does not require the addition of further structural units;
- "parts" includes all structural units which are included in a complete device;
- "container" is an enclosure forming part of the complete device and is
  essentially a solid construction in which the body of the device is placed, or
  which is formed around the body without forming an intimate layer thereon.
  An enclosure which consists of one or more layers formed on the body and
  in intimate contact therewith is referred to as an "encapsulation";
- "integrated circuit" is a device where all components, e.g. diodes, resistors, are built up on a common substrate and form the device including interconnections between the components;
- "assembly" of a device is the building up of the device from its component constructional units and includes the provision of fillings in containers.

3. In this subclass, both the process or apparatus for the manufacture or treatment of a device and the device itself are classified, whenever both of these are described sufficiently to be of interest.

4. Attention is drawn to Note (3) after the title of section <u>C</u>, which Note indicates to which version of the periodic table of chemical elements the IPC refers. In this subclass, the Periodic System used is the 8 group system indicated by Roman numerals in the Periodic Table thereunder.

# WARNINGS

1. The following IPC groups are not in the CPC scheme. The subject matter for<br/>these IPC groups is classified in the following CPC groups:<br/>H01L 21/301H01L 21/301covered byH01L 21/30

H01L 21/328	covered by	H01L 29/66075
H01L 21/329	covered by	H01L 29/66083
H01L 21/33	covered by	H01L 29/66227
H01L 21/331	covered by	H01L 29/66234
H01L 21/332	covered by	H01L 29/66363
H01L 21/334	covered by	H01L 29/66075
H01L 21/335	covered by	H01L 29/66409
H01L 21/336	covered by	H01L 29/66477
H01L 21/337	covered by	H01L 29/66893
H01L 21/338	covered by	H01L 29/66848
H01L 21/339	covered by	H01L 29/66946
H01L 21/36-H01L 21/368	covered by	
H01L 21/58	covered by	H01L 24/80
H01L 21/60	covered by	H01L 24/80
H01L 21/66	covered by	H01L 22/00
H01L 21/603	covered by	H01L 24/80
H01L 21/607	covered by	H01L 24/80
H01L 21/8242	covered by	H01L 27/10844
H01L 21/8244	covered by	<u>H01L 27/11</u>
H01L 21/8246	covered by	H01L 27/112
H01L 21/98	covered by	H01L 25/50
H01L 29/38	covered by	H01L 29/04-H01L 29/365
H01L 29/96	covered by	H01L 29/68-H01L 29/945
H01L 51/30	covered by	H01L 51/0032
H01L 51/40	covered by	H01L 51/0001
H01L 51/46	covered by	H01L 51/0032
H01L 51/48	covered by	H01L 51/0001
H01L 51/54	covered by	H01L 51/0032

2. In this subclass non-limiting references (in the sense of paragraph 39 of the Guide to the IPC) may still be displayed in the scheme.

U H01L 27/00 Devices consisting of a plurality of semiconductor or other solid-state components formed in or on a common substrate (details thereof H01L 23/00, H01L 29/00 - H01L 51/00; assemblies consisting of a plurality of individual solid state devices H01L 25/00)

## <u>NOTES</u>

1. In this group, with the exception of groups <u>H01L 27/115</u> - <u>H01L 27/11597</u>, the last place priority rule is applied, i.e. at each hierarchical level, in the absence of an indication to the contrary, classification is made in the last appropriate place.

2. When classifying in this group, subject matter relating to electrically programmable read-only memories is classified in group <u>H01L 27/115</u>, irrespective of the last place priority rule.

M H01L 27/14 • including semiconductor components sensitive to infra-red radiation, light, electromagnetic radiation of shorter wavelength; or corpuscular radiation and specially adapted either for the conversion of the energy of such radiation into electrical energy or for the control of electrical energy by such radiation (radiation-sensitive components structurally associated with one or more electric light sources only H01L 31/14; couplings of light guides with optoelectronic elements G02B 6/42)

U	H01L 31/00	Semiconductor devices sensitive to infra-red radiation, light, electromagnetic radiation of shorter wavelength or corpuscular radiation and adapted either for the conversion of the energy of such radiation into electrical energy or for the control of electrical energy by such radiation; Processes or apparatus peculiar to the manufacture or treatment thereof or of parts thereof; Details thereof (H01L 51/42 takes precedence; devices consisting of a plurality of solid state components formed in, or on, a common substrate, other than combinations of radiation- sensitive components with one or more electric light sources, H01L 27/00; measurement of X-radiation, gamma radiation, corpuscular radiation or cosmic radiation with semiconductor detectors G01T 1/24, with resistance detectors G01T 1/26; measurement of neutron radiation with semiconductor detectors G01T 3/08; couplings of light guides with optoelectronic elements G02B 6/42; obtaining energy from radioactive sources G21H)
U	H01L 31/12	<ul> <li>structurally associated with, e.g. formed in or on a common substrate with, one or more electric light sources, e.g. electroluminescent light sources, and electrically or optically coupled thereto (semiconductor devices with at least one potential barrier or surface barrier adapted for light emission <u>H01L 33/00</u>; amplifiers using electroluminescent element and photocell <u>H03F 17/00</u>; electroluminescent light sources <u>per se H05B 33/00</u>)</li> </ul>
Μ	H01L 31/14	<ul> <li>the light source or sources being controlled by the semiconductor device sensitive to radiation, e.g. image converters, image amplifiers, or image storage devices</li> </ul>

## Project: RP0058-F (A47B)

M A47B 65/00 Book-troughs; Accessories specially adapted for book-storing, e.g. bookends WARNING

Groups A47B 65/10 - A47B 65/20 are incomplete pending reclassification of documents from group A47B 65/00.

Until reclassification is complete, groups A47B 65/00 and A47B 65/10 - A47B 65/20 should be considered in order to perform a complete search.

## Project: RP0134 (B29K)

M B29K

## INDEXING SCHEME ASSOCIATED WITH SUBCLASSES <u>B29B</u>, <u>B29C</u> OR <u>B29D</u>, RELATING TO MOULDING MATERIALS OR TO MATERIALS FOR {MOULDS, } REINFORCEMENTS, FILLERS OR PREFORMED PARTS, e.g. INSERTS

NOTES

1. This subclass constitutes an indexing scheme associated with subclasses <u>B29B</u>, <u>B29C</u> or <u>B29D</u>.

2. In this subclass, the following term is used with the meaning indicated: "rubber" covers: natural or conjugated diene rubbers; rubber in general (for a specific rubber, other than a natural rubber or a conjugated diene rubber, see the group provided for such macromolecular compounds)

- "rubber" covers:
  - a. natural or conjugated diene rubbers;
  - b. rubber in general (for a specific rubber, other than a natural rubber or a conjugated diene rubber, see the group provided for such macromolecular compounds

3. Documents relating to compositions or properties of the materials to be shaped, said compositions having a particular influence on the shaping technique, should be classified in the shaping technique, e.g. <u>B29C 39/003</u>,

<u>B29C 41/003, B29C 43/003, B29C 45/0001, B29C 47/0004, B29C 49/0005, B29C 51/002, B29C 53/005, B29C 55/005, B29C 61/003, B29C 63/0017</u> and B29C 66/70.

3. *4.* Documents relating to compositions or properties of the materials to be shaped, said compositions having a particular influence on the shaping technique, should be classified in the shaping technique, e.g. B29C 39/003, B29C 41/003, B29C 43/003, B29C 45/0001, B29C 47/0004, B29C 49/0005, B29C 51/002, B29C 53/005, B29C 55/005, B29C 61/003, B29C 63/0017 and **B2965/00S** 

Copolymers are indexed with the same indexing code as the majority polymers

5. Compositions for moulding materials, condition, form or state of moulded material: <u>B29K 2001/00</u> - <u>B29K 2105/00</u>

6. Compositions for reinforcements: <u>B29K 2201/00</u> - <u>B29K 2313/00</u>

7. Compositions for fillers: <u>B29K 2401/00</u> - <u>B29K 2511/00</u>

8. Compositions for preformed parts: <u>B29K 2601/00</u> - <u>B29K 2713/00</u>

9. Compositions for moulds: <u>B29K 2801/00</u> - <u>B29K 2913/00</u>

10. Properties of moulding materials, reinforcements, fillers, preformed parts or moulds: <u>B29K 2995/00</u>

## WARNING

1. The following IPC groups are not in the CPC scheme. The subject matter for these IPC groups is classified in the following CPC groups:-

<del>B29K 105/02</del>	covered by	<del>B29K 2995/0064</del>
B29K 105/22	covered by	B29K 2705/00
B29K 105/28	covered by	B29K 2995/0025
B29K 105/30	covered by	<u>B29K 2995/003</u>
B29K 105/32	covered by	B29K 2995/0026
B29K 105/34	covered by	<u>B29K 2995/002,</u>
		<u>B29K 2995/0007,</u> and
		B29K 2995/0015

Subclass indexes

Compositions for moulding materials, condition, form or state of moulded material: B29K1/00 - B29K105/00 Compositions for reinforcements: B29K201/00 - B29K313/00 Compositions for fillers: B29K401/00 - B29K511/00 Compositions for preformed parts: B29K601/00 - B29K713/00 Compositions for moulds: B29K801/00 - B29K913/00 Properties of moulding materials, reinforcements, fillers, preformed parts or moulds: B29K995/00 Compositions for moulding materials; Condition, form or state of moulded material 2. From the date indicated below, the following groups have been deleted

from the classification scheme. The documents of these groups have been transferred to the new groups as follows : B29K105/28 transfered to B29K 2995/0025 B29K105/30 transfered to B29K 2995/003 B29K105/32 transfered to B29K 2995/0026 B29K105/34 transfered to B29K 2995/002, B29K 2995/0007, B29K00D4

# B29K 2001/00 Use of cellulose, modified cellulose or cellulose derivatives, e.g. viscose, as moulding material <del>{(as such C08L 1/00)}</del>

- {Cellulose derivatives (as such C08L 1/08)}
- M B29K 2001/12

Μ

Μ

M B29K 2001/14

B29K 2001/08

- • {Cellulose acetate (as such C08L 1/12)}
- {Cellulose acetate-butyrate (as such C08L 1/14)}

Μ	B29K 2001/18	<ul> <li>         • {Cellulose nitrate (as such C08L 1/18)}     </li> </ul>
М	B29K 2003/00	Use of <del>{</del> starch or derivatives as moulding material <del>(as such C08L 3/00)}</del>
М	B29K 2005/00	P <del>olysaccharides</del> Use of polysaccharides or derivatives <mark>as moulding material(as such C08L 5/00)</mark>
М	B29K 2007/00	Use of natural rubber as moulding material <del>{(as such C08L 7/00)}</del>
М	B29K 2009/00	Use of rubber derived from conjugated dienes, as moulding material <del>{(as</del> <del>such C08L 9/00)}</del>
Μ	B29K 2009/06	<ul> <li>{SBR}SB polymers, i.e. butadiene-styrene {rubbers polymers(as such C08L 9/06)}</li> </ul>
М	B29K 2011/00	Use of <del>{</del> rubber derived from chloroprene as moulding material <del>(as such</del> C08L 11/00)}
М	B29K 2019/00	Use of rubber not provided for in a single one of main groups <mark>{B29K 2007/00</mark> - <mark>{B29K 2011/00},}</mark> as moulding material
М	B29K 2021/00	Use of <del>{</del> unspecified rubbers as moulding material <del>(as such C08L 21/00)}</del>
Μ	B29K 2023/00	Use of polyalkenes {or derivatives thereof} as moulding material <del>{(as such</del> C08L 23/00)}
Μ	B29K 2023/04	<ul> <li>{Polymers of ethylene (as such C08L 23/04)}</li> </ul>
Μ	B29K 2023/06	<ul> <li>• {PE, i.e. polyethylene (as such C08L 23/06)}</li> </ul>
Μ	B29K 2023/08	<ul> <li>{UseCopolymers of copolymers of ethylene as moulding material (as such C08L 23/08; B29K 2023/16 takes precedence)}</li> </ul>
Μ	B29K 2023/10	<ul> <li>{Polymers of propylene (as such C08L 23/10)}</li> </ul>
Μ	B29K 2023/12	<ul> <li>• {PP, i.e. polypropylene (as such C08L 23/12)}</li> </ul>
Μ	B29K 2023/14	<ul> <li>• {Copolymers of polypropylene (as such C08L 23/14; B29K 2023/16 takes precedence)}</li> </ul>
Μ	B29K 2023/16	<ul> <li>{EPM, i.e. ethylene-propylene copolymers; EPDM, i.e. ethylene-propylene- diene copolymers; EPT, i.e. ethylene-propylene terpolymers (as such C08L 23/16)}</li> </ul>
Μ	B29K 2023/18	<ul> <li>{Polymers of hydrocarbons having four or more carbon atoms, e.g. polymers of butylene (, e.g. PB, i.e. polybutylene) (as such C08L 23/18)}</li> </ul>
Μ	B29K 2023/22	<ul> <li>• {Copolymers of isobutene, e.g. butyl rubber (as such C08L 23/22)}</li> </ul>
М	B29K 2023/38	<ul> <li>{Polymers of cycloalkenes, e.g. norbornene, or cyclopentene}</li> </ul>
М	B29K 2025/00	Use of polymers of vinyl-aromatic compounds {or derivatives thereof} as moulding material <del>{(as such C08L 25/00)}</del>
Μ	B29K 2025/04	<ul> <li>{Polymers of styrene (as such C08L 25/04)}</li> </ul>
М	B29K 2025/06	<ul> <li>         {PS, i.e. polystyrene (as such C08L 25/06)}     </li> </ul>
Μ	B29K 2025/08	<ul> <li>{Copolymers of styrene, e.g. AS or SAN, i.e. acrylonitrile styrene (as such C08L 25/08; B29K 2055/02 takes precedence)}</li> </ul>
М	B29K 2027/00	Use of polyvinylhalogenides {or derivatives thereof} as moulding material <del>{(as such C08L 27/00)}</del>
М	B29K 2027/06	<ul> <li>{PVC, i.e. polyvinylchloride (as such C08L 27/06)}</li> </ul>
Μ	B29K 2027/08	<ul> <li>{PVDC, i.e. polyvinylidene chloride (as such C08L 27/08)}</li> </ul>
М	B29K 2027/12	<ul> <li>containing fluorine {(as such C08L 27/12)}</li> </ul>
Μ	B29K 2027/14	<ul> <li>• {PVF, i.e. polyvinyl fluoride (as such C08L 27/14)}</li> </ul>
Μ	B29K 2027/16	<ul> <li>• {PVDF, i.e. polyvinylidene fluoride (as such C08L 27/16)}</li> </ul>

Μ	B29K 2027/18	<ul> <li>PTFE, i.e. polytetrafluorethene {(as such C08L 27/18)PTFE, i.e. polytetrafluorethene {, e.g. ePTFE, i.e. expanded polytetrafluorethene, Gore Tex (R)}</li> </ul>
М	B29K 2029/00	Use of polyvinylalcohols, polyvinylethers, polyvinylaldehydes, polyvinylketones or polyvinylketals {or derivatives thereof} as moulding material <del>{(as such C08L 29/00)}</del>
Μ	B29K 2029/04	<ul> <li>{PVOH, i.e. polyvinyl alcohol (as such C08L 29/04; B29K 2031/04 takes precedence)}</li> </ul>
М	B29K 2031/00	Use of polyvinylesters {or derivatives thereof} as moulding material <del>{(as</del> <del>such C08L 31/00)}</del>
Μ	B29K 2031/04	<ul> <li>{Polymers of vinyl acetate, e.g. PVAc, i.e. polyvinyl acetate (as such C08L 31/04)}</li> </ul>
М	B29K 2033/00	Use of polymers of unsaturated acids or derivatives thereof as moulding material <u>{B29K 2035/00</u> takes precedence} <del>({as such C08L 33/00;}</del> B29K 2035/00 takes precedence)
М	B29K 2033/04	<ul> <li>Polymers of esters {(as such C08L 33/04)}</li> </ul>
Μ	B29K 2033/08	<ul> <li>{Polymers of acrylic acid esters, e.g. PMA, i.e. polymethylacrylate (as such C08L 33/08)}</li> </ul>
Μ	B29K 2033/12	<ul> <li>• {Polymers of methacrylic acid esters, e.g. PMMA, i.e. polymethylmethacrylate (as such C08L 33/12)}</li> </ul>
Μ	B29K 2033/18	<ul> <li>Polymers of nitriles {(as such C08L 33/18)}</li> </ul>
М	B29K 2033/20	<ul> <li>PAN, i.e. polyacrylonitrile {(as such C08L 33/20)}</li> </ul>
Μ	B29K 2033/26	<ul> <li>{Polymers of acrylamide or methacrylamide (as such C08L 33/26)}</li> </ul>
М	B29K 2035/00	Use of polymers of unsaturated polycarboxylic acids {or derivatives thereof} as moulding material <del>{(as such C08L 35/00)}</del>
М	B29K 2039/00	Use of polymers with unsaturated aliphatic radicals and with a nitrogen or a heterocyclic ring containing nitrogen in a side chain or derivatives thereof as moulding material (as such C08L 39/00)
М	B29K 2039/06	<ul> <li>Polymers of N-vinyl-pyrrolidones (as such C08L 39/06)</li> </ul>
М	B29K 2039/08	<ul> <li>Polymers of vinyl-pyridine (as such C08L 39/08)</li> </ul>
М	B29K 2045/00	Use of polymers of unsaturated cyclic compounds having no unsaturated aliphatic groups in a side-chain, e.g. coumarone-indene resins <del>{</del> or derivatives thereof <del>}</del> , as moulding material <del>{(as such C08L 45/00)}</del>
Μ	B29K 2049/00	Use of polyacetylene or cyanic ester resins, i.e. polymers having one or more carbon-tocarbon triple bonds or derivatives thereof, as moulding material <del>(as such C08L 49/00)</del>
М	B29K 2055/00	Use of specific polymers obtained by polymerisation reactions only involving carbon-to-carbon unsaturated bonds, not provided for in a single one of main groups <mark>{B29K 2023/00</mark> - <del>{B29K 2049/00</del> , e.g. having a vinyl group}, as moulding material <del>{(as such C08L 55/00)}</del>
Μ	B29K 2055/02	<ul> <li>ABS polymers, i.e. acrylonitrile-butadiene-styrene polymers</li></ul>
М	B29K 2059/00	Use of polyacetals {, e.g. POM, i.e. polyoxymethylene or derivatives thereof}, as moulding material; or derivatives thereof}, as moulding material {(as such C08L 59/00)}
Μ	B29K 2061/00	Use of condensation polymers of aldehydes or ketones {or derivatives thereof} <mark>,</mark> as moulding material <del>{(as such C08L 61/00)}</del>

M M	B29K 2061/04 B29K 2061/20	<ul> <li>Phenoplasts <del>{(as such C08L 61/04)}</del></li> <li>Aminoplasts <del>{(as such C08L 61/20)}</del></li> </ul>
м	B29K 2063/00	Use of {EP, i.e.} epoxy resins {or derivatives thereof}, as moulding material {(as such C08L 63/00)}
М	B29K 2065/00	Use of polyphenylenes or polyxylylenes as moulding material(as such C08L 65/02)or polyxylylenes (as such C08L 65/04)as moulding material
М	B29K 2067/00	Use of polyesters {or derivatives thereof} <mark>,</mark> as moulding material <del>{(as such</del> <del>C08L 67/00)}</del>
М	B29K 2067/04	<ul> <li>{Polyesters derived from hydroxycarboxylic acids (as such C08L 67/04)}</li> </ul>
М	B29K 2067/06	<ul> <li>{Unsaturated polyesters (as such C08L 67/06)}</li> </ul>
М	B29K 2069/00	Use of <del>{</del> PC, i.e. <del>}</del> polycarbonates {or derivatives thereof} <mark>,</mark> as moulding material <del>{(as such C08L 69/00)}</del>
М	B29K 2071/00	Use of polyethers <del>,</del> {, e.g. PEEK, i.e. polyether-etherketone or PEK, i.e. polyetherketone or derivatives thereof}, as moulding material <del>{(as such</del> <del>C08L 71/00)}</del>
Μ	B29K 2071/02	<ul> <li>{Polyalkylene oxides, e.g. PEO, i.e. polyethylene oxide, or derivatives thereof (as such C08L 71/02)}</li> </ul>
Μ	B29K 2071/12	<ul> <li>{PPO, i.e. polyphenylene oxide (as such C08L 71/12); PPE, i.e. polyphenylene ether}</li> </ul>
М	B29K 2073/00	Use of other polymers having oxygen as the only hetero atom in the main chain <mark>,</mark> as moulding material <del>{(as such C08L 73/00)}</del>
М	B29K 2075/00	Use of {PU, i.e.} polyureas or polyurethanes {or derivatives thereof} <mark>,</mark> as moulding material <del>{(as such C08L 75/00)}</del>
М	B29K 2075/02	<ul> <li>{Polyureas (as such C08L 75/02)}</li> </ul>
М	B29K 2077/00	Use of {PA, i.e.} polyamides, e.g. polyesteramides {or derivatives thereof} <mark>,</mark> as moulding material <del>{(as such C08L 77/00)}</del>
М	B29K 2077/10	<ul> <li>{Aromatic polyamides (Polyaramides)[polyaramides] or derivatives thereof (such as C08L 77/10)}</li> </ul>
м	B29K 2079/00	Use of polymers having nitrogen, with or without oxygen, or carbon only, in the main chain {, not provided for in groups <u>B29K 2061/00</u> - <u>B29K 2077/00</u> }, as moulding material <del>{(as such C08L 79/00)}</del>
М	B29K 2079/08	<ul> <li>{PI, i.e. polyimides or derivatives thereof (as such C08L 79/08)}</li> </ul>
Μ	B29K 2079/085	<ul> <li>{Thermoplastic polyimides, e.g. polyesterimides, polyetherimides [PEI], i.e. polyetherimides, or polyamideimides; Derivatives thereof}</li> </ul>
М	B29K 2081/00	Use of polymers having sulfur, with or without nitrogen, oxygen <del>,</del> or carbon only, in the main chain, as moulding material <del>{(as such C08L 81/00)}</del>
Μ	B29K 2081/04	<ul> <li>{Polysulfides, e.g. PPS, i.e. polyphenylene sulfide or derivatives thereof (as such C08L 81/04)}</li> </ul>
Μ	B29K 2081/06	<ul> <li>{PSU, i.e. polysulfones; PES, i.e. polyethersulfones or derivatives thereof (as such C08L 81/06)}</li> </ul>
М	B29K 2083/00	Use of polymers having silicon, with or without sulfur, nitrogen, oxygen, or carbon only, in the main chain, as moulding material <del>{(as such C08L 83/00)}</del>
Μ	B29K 2083/005	<ul> <li>{Liquid Silicone Rubbers [LSR] LSR, i.e. liquid silicone rubbers, or derivatives thereof}</li> </ul>

М	B29K 2085/00	Use of polymers having <del>other</del> elements <del>{other</del> than silicon, {sulfur,} nitrogen, oxygen <del>, and or</del> carbon <del>} only</del> in the main chain, as moulding material <del>{(as such C08L 85/00)}</del>
Μ	B29K 2086/00	Use of specific polymers obtained by polycondensation or polyaddition, not provided for in a single one of main groups <a>[B29K 2059/00]</a> - <a>B29K 2085/00]</a> , as moulding material
М	B29K 2089/00	Use of proteins, e.g. casein, gelatine or derivatives thereof, as moulding material <mark>(as such C08L 89/00)</mark>
М	B29K 2091/00	Use of waxes as moulding material <del>{(as such C08L 91/06)}</del>
М	B29K 2093/00	Use of natural resins (as such C08L 93/00), e.g. shellac (as such C08L 93/02)Use of natural resins, e.g. shellac, or derivatives thereof, as moulding material (B29K 2001/00, B29K 2003/00, B29K 2005/00, B29K 2007/00 and B29K 2089/00 take precedence)
М	B29K 2095/00	Use of bituminous materials as moulding material <del>{(as such C08L 95/00)}</del>
U	B29K 2096/00	Use of specified macromolecular materials not provided for in a single one of main groups <u>B29K 2001/00</u> - <u>B29K 2095/00</u> , as moulding material
М	B29K 2096/02	<ul> <li>Graft polymers (B29K 2055/02 takes precedence)</li> </ul>
М	B29K 2096/04	<ul> <li>Block polymers (B29K 2055/02 takes precedence)</li> </ul>
Μ	B29K 2101/00	Use of unspecified macromolecular compounds as moulding material {( <del>unspecified rubbers B29K 2021/00 {; as such C08L 101/00}<i>use of unspecified rubbers <u>B29K 2021/00</u>)}</i></del>
U	B29K 2105/00	Condition, form or state of moulded material {or of the material to be shaped}
U	B29K 2105/0005	<ul> <li>{containing compounding ingredients (releasing, lubricating or separating agents <u>B29C 33/56</u>, fibers <u>B29K 2105/08</u>, <u>B29K 2105/12</u>; fillers <u>B29K 2105/16</u>, recycled material <u>B29K 2105/26</u>)}</li> </ul>
М	B29K 2105/0044	<ul> <li>{Stabilisers, e.g. against oxydation, light, or heat}</li> </ul>
М	B29K 2105/0097	<ul> <li>{Glues, or adhesives, e.g. hot melts, or thermofusible adhesives}</li> </ul>
С	B29K 2105/02	<ul> <li>heat-shrinkable {(<u>B29K 2995/0049</u> takes precedence)}</li> </ul>
		<u>WARNING</u> Group <u>B29K 2105/02</u> is impacted by reclassification into group <u>B29K 2995/0049</u> . Groups <u>B29K 2105/02</u> and <u>B29K 2995/0049</u> should be considered in order to perform a complete search.
U	B29K 2105/06	containing reinforcements, fillers or inserts
М	B29K 2105/08	<ul> <li>of continuous length, e.g. cords, rovings, mats, fabrics, strands, or yarns</li> </ul>
U	B29K 2105/0854	<ul> <li>• • {in the form of a non-woven mat}</li> </ul>
М	B29K 2105/0863	{ Sheet SMC, i.e. sheet moulding compound [SMC]
U	B29K 2105/10	• • • {Cords, strands or rovings, e.g.} oriented {cords, strands or rovings}
М	B29K 2105/101	• • • • { <del>oriented</del> Oriented}
М	B29K 2105/102	<pre>{circonferentiallycircumferentially}</pre>
М	B29K 2105/12	<ul> <li>of short lengths, e.g. chopped filaments, staple fibres, or bristles</li> </ul>
М	B29K 2105/122	<ul> <li>{microfibres, nanofibres or nanofibers}</li> </ul>
М	B29K 2105/124	• • • { <del>nanofibres</del> Nanofibers}
U	B29K 2105/16	Fillers

Μ	B29K 2105/165	<ul> <li>• • {Hollow fillers, e.g. microballoons, or expanded particles}</li> </ul>
U	B29K 2105/20	Inserts
М	B29K 2105/206	<ul> <li>• • {Meshes, lattices, <u>or</u>nets}</li> </ul>
U	B29K 2105/25	• {Solid}
М	B29K 2105/251	<ul> <li>• {Particles, powder, <u>or</u> granules (expandable particles <u>B29K 2105/046</u>)}</li> </ul>
U	B29K 2105/253	<ul> <li>• {Preform}</li> </ul>
М	B29K 2105/255	<ul> <li>• • {Block, tabletBlocks or tablets}</li> </ul>
М	B29K 2105/256	<ul> <li>• • {SheetSheets, plateplates, blank, filmblanks or films}</li> </ul>
М	B29K 2105/258	• • • { <del>tubular</del> <i>Tubular</i> }
Μ	B29K 2105/26	<ul> <li>Scrap {or recycled material}</li> </ul>
М	B29K 2201/00	Use of cellulose, modified cellulose or cellulose derivatives, e.g. viscose, as reinforcement <del>{(as such C08L 1/00)}</del>
		NOTE
		Copolymers are indexed with the same indexing code as the majority polymers
Μ	B29K 2201/08	<ul> <li>{Cellulose derivatives (as such C08L 1/08)}</li> </ul>
Μ	B29K 2201/12	<ul> <li>{Cellulose acetate (as such C08L 1/12)}</li> </ul>
Μ	B29K 2201/14	<ul> <li>{Cellulose acetate-butyrate (as such C08L 1/14)}</li> </ul>
Μ	B29K 2201/18	<ul> <li>{Cellulose nitrate (as such C08L 1/18)}</li> </ul>
М	B29K 2203/00	Use of <del>{</del> starch or derivatives as reinforcement (as such C08L 3/00)}
М	B29K 2205/00	Polysaccharides Use of polysaccharides or derivatives as reinforcement(as such C08L 5/00)
М	B29K 2207/00	Use of natural rubber as reinforcement <del>{(as such C08L 7/00)}</del>
M M	B29K 2207/00 B29K 2209/00	Use of natural rubber as reinforcement <del>{(as such C08L 7/00)}</del> Use of rubber derived from conjugated dienes as reinforcement <del>{(as such</del> <del>C08L 9/00)}</del>
		Use of rubber derived from conjugated dienes as reinforcement <del>{(as such</del>
м	B29K 2209/00	Use of rubber derived from conjugated dienes as reinforcement <del>{(as such</del> C08L 9/00)} • <del>{SBR}SB polymers</del> , i.e. butadiene-styrene <del>{rubbers polymers(as such</del>
M	<b>B29K 2209/00</b> B29K 2209/06	Use of rubber derived from conjugated dienes as reinforcement <del>{(as such C08L 9/00)}</del> • <del>{SBR}SB polymers</del> , i.e. butadiene-styrene <del>{rubbers polymers(as such C08L 9/06)}</del> Use of <del>{rubber derived from chloroprene as reinforcement <u>{as such</u>}</del>
м м	B29K 2209/00 B29K 2209/06 B29K 2211/00	Use of rubber derived from conjugated dienes as reinforcement <del>{(as such C08L 9/00)}</del> • <del>{SBR}SB polymers</del> , i.e. butadiene-styrene <del>{rubbers polymers(as such C08L 9/06)}</del> Use of <del>{rubber derived from chloroprene as reinforcement <del>{as such C08L 11/00}}</del> Use of rubber not provided for in a single one of main groups</del>
м м м	B29K 2209/00 B29K 2209/06 B29K 2211/00 B29K 2219/00	Use of rubber derived from conjugated dienes as reinforcement <del>{(as such C08L 9/00)}</del> • <del>{SBR}SB polymers</del> , i.e. butadiene-styrene <del>{rubbers polymers(as such C08L 9/06)}</del> Use of <del>{rubber derived from chloroprene as reinforcement <del>{as such C08L 11/00}}</del> Use of rubber not provided for in a single one of main groups <del>{B29K 2207/00 - {B29K 2211/00}</del>}, as reinforcement</del>
м м м	B29K 2209/00 B29K 2209/06 B29K 2211/00 B29K 2219/00 B29K 2221/00	Use of rubber derived from conjugated dienes as reinforcement <del>{(as such C08L 9/00)}</del> • <del>{SBR}SB polymers</del> , i.e. butadiene-styrene <del>{rubbers polymers(as such C08L 9/06)}</del> Use of <del>{rubber derived from chloroprene as reinforcement <del>{as such C08L 11/00}}</del> Use of rubber not provided for in a single one of main groups <del>{B29K 2207/00 - {B29K 2211/00}, as reinforcement</del> Use of <del>{unspecified rubbers as reinforcement <del>{as such C08L 21/00}}</del> Use of polyalkenes {or derivatives thereof} as reinforcement <del>{(as such C08L 21/00)}</del></del></del>
M M M M	B29K 2209/00 B29K 2209/06 B29K 2211/00 B29K 2219/00 B29K 2221/00 B29K 2223/00	Use of rubber derived from conjugated dienes as reinforcement <del>{(as such C08L 9/00)}</del> • <del>{SBR}SB polymers</del> , i.e. butadiene-styrene <del>{rubbers polymers(as such C08L 9/06)}</del> Use of <del>{rubber derived from chloroprene as reinforcement <del>{as such C08L 11/00}}</del> Use of rubber not provided for in a single one of main groups <del>{B29K 2207/00 - {B29K 2211/00}, as reinforcement {as such C08L 21/00}}</del> Use of <del>{unspecified rubbers as reinforcement <del>{as such C08L 21/00}}</del> Use of polyalkenes {or derivatives thereof} as reinforcement <del>{as such C08L 21/00}}</del></del></del>
M M M M M	B29K 2209/00         B29K 2209/06         B29K 2211/00         B29K 2219/00         B29K 2221/00         B29K 2223/00         B29K 2223/04	Use of rubber derived from conjugated dienes as reinforcement-{(as such C08L 9/00)} • {SBR}SB polymers, i.e. butadiene-styrene {rubbers-polymers(as such C08L 9/06)} Use of {rubber derived from chloroprene as reinforcement-{as such C08L 11/00)} Use of rubber not provided for in a single one of main groups {B29K 2207/00 - {B29K 2211/00}, as reinforcement {B29K 2207/00 - {B29K 2211/00}, as reinforcement Use of {unspecified rubbers as reinforcement {as such C08L 21/00)} Use of polyalkenes {or derivatives thereof} as reinforcement-{{as such C08L 23/00}} • {Polymers of ethylene-{as such C08L 23/04}}
м м м м м м	B29K 2209/00         B29K 2209/06         B29K 2211/00         B29K 2219/00         B29K 2221/00         B29K 2223/00         B29K 2223/04         B29K 2223/06	Use of rubber derived from conjugated dienes as reinforcement {(as such C08L 9/00)} • {SBR}SB polymers, i.e. butadiene-styrene {rubbers polymers(as such C08L 9/06)} Use of {rubber derived from chloroprene as reinforcement {as such C08L 11/00)} Use of rubber not provided for in a single one of main groups {B29K 2207/00 - {B29K 2211/00}, as reinforcement Use of {unspecified rubbers as reinforcement {as such C08L 21/00}} Use of polyalkenes {or derivatives thereof} as reinforcement {{as such C08L 23/00}} • {Polymers of ethylene {as such C08L 23/04}} • • {Use of copolymers of ethylene as reinforcement {as such C08L 23/08;
M M M M M M M	B29K 2209/00 B29K 2209/06 B29K 2211/00 B29K 2219/00 B29K 2221/00 B29K 2223/00 B29K 2223/04 B29K 2223/06 B29K 2223/08	<ul> <li>Use of rubber derived from conjugated dienes as reinforcement {(as such C08L 9/00)}</li> <li>(SBR}SB polymers, i.e. butadiene-styrene {rubbers polymers(as such C08L 9/06)}</li> <li>Use of {rubber derived from chloroprene as reinforcement (as such C08L 11/00)}</li> <li>Use of rubber not provided for in a single one of main groups {B29K 2207/00 - {B29K 2211/00}, as reinforcement</li> <li>Use of {unspecified rubbers as reinforcement (as such C08L 21/00)}</li> <li>Use of polyalkenes {or derivatives thereof} as reinforcement {(as such C08L 21/00)}</li> <li>(Polymers of ethylene (as such C08L 23/04)}</li> <li>(PE, i.e. polyethylene (as such C08L 23/06))</li> <li>Use of copolymers of ethylene as reinforcement (as such C08L 23/08; B29K 2223/16 takes precedence))</li> </ul>
м м м м м м м м	B29K 2209/00         B29K 2209/06         B29K 2211/00         B29K 2219/00         B29K 2221/00         B29K 2223/00         B29K 2223/04         B29K 2223/08         B29K 2223/08         B29K 2223/10	<ul> <li>Use of rubber derived from conjugated dienes as reinforcement {(as such C08L 9/00)}</li> <li>(\$BR}\$SB polymers, i.e. butadiene-styrene {rubbers polymers(as such C08L 9/06)}</li> <li>Use of {rubber derived from chloroprene as reinforcement (as such C08L 11/00)}</li> <li>Use of rubber not provided for in a single one of main groups {B29K 2207/00 - {B29K 2211/00}, as reinforcement</li> <li>Use of {unspecified rubbers as reinforcement (as such C08L 21/00)}</li> <li>Use of polyalkenes {or derivatives thereof} as reinforcement {(as such C08L 21/00)}</li> <li>(Polymers of ethylene (as such C08L 23/04))</li> <li>(PE, i.e. polyethylene (as such C08L 23/06))</li> <li>Use of copolymers of ethylene as reinforcement (as such C08L 23/08; B29K 2223/16 takes precedence))</li> <li>(Polymers of propylene (as such C08L 23/10))</li> </ul>

М	B29K 2239/06	<ul> <li>Polymers of N-vinyl-pyrrolidones (as such C08L 39/06)</li> </ul>
Μ	B29K 2239/00	Use of polymers with unsaturated aliphatic radicals and with a nitrogen or a heterocyclic ring containing nitrogen in a side chain or derivatives thereof, as reinforcement (as such C08L 39/00)
Μ	B29K 2235/00	Use of polymers of unsaturated polycarboxylic acids {or derivatives thereof} as reinforcement <del>{(as such C08L 35/00)}</del>
М	B29K 2233/26	<ul> <li>{Polymers of acrylamide or methacrylamide (as such C08L 33/26)}</li> </ul>
Μ	B29K 2233/20	<ul> <li>PAN, i.e. polyacrylonitrile {(as such C08L 33/20)}</li> </ul>
М	B29K 2233/18	<ul> <li>Polymers of nitriles <del>{(as such C08L 33/18)}</del></li> </ul>
Μ	B29K 2233/12	<ul> <li>{Polymers of methacrylic acid esters, e.g. PMMA, i.e. polymethylmethacrylate (as such C08L 33/12)}</li> </ul>
Μ	B29K 2233/08	<ul> <li>{Polymers of acrylic acid esters, e.g. PMA, i.e. polymethylacrylate (as such C08L-33/08)}</li> </ul>
М	B29K 2233/04	<ul> <li>Polymers of esters {(as such C08L 33/04)}</li> </ul>
Μ	B29K 2233/00	Use of polymers of unsaturated acids or derivatives thereof <mark>,</mark> as reinforcement {( <del>as such C08L 33/00<u>B29K 2235/00</u> takes precedence</del> )} <del>(B29K 2035/00 takes precedence)</del>
Μ	B29K 2231/04	<ul> <li>{Polymers of vinyl acetate, e.g. PVAc, i.e. polyvinyl acetate (as such C08L 31/04)}</li> </ul>
М	B29K 2231/00	Use of polyvinylesters {or derivatives thereof} as reinforcement <del>{(as such</del> <del>C08L 31/00)}</del>
М	B29K 2229/04	<ul> <li>{PVOH, i.e. polyvinyl alcohol (as such C08L 29/04; B29K 2231/04 takes precedence)}</li> </ul>
Μ	B29K 2229/00	Use of polyvinylalcohols, polyvinylethers, polyvinylaldehydes, polyvinylketones or polyvinylketals {or derivatives thereof <del>},}</del> as reinforcement <del>{(as such C08L 29/00)}</del>
Μ	B29K 2227/18	<ul> <li>PTFE, i.e. polytetrafluorethene {(as such C08L 27/18)PTFE, i.e. polytetrafluorethene {, e.g. ePTFE, i.e. expanded polytetrafluorethene, Gore Tex (R)}</li> </ul>
М	B29K 2227/16	<ul> <li>• {PVDF, i.e. polyvinylidene fluoride (as such C08L 27/16)}</li> </ul>
М	B29K 2227/14	<ul> <li>{PVF, i.e. polyvinyl fluoride (as such C08L 27/14)}</li> </ul>
М	B29K 2227/12	<ul> <li>containing fluorine {(as such C08L 27/12)}</li> </ul>
М	B29K 2227/08	<ul> <li>{PVDC, i.e. polyvinylidene chloride (as such C08L 27/08)}</li> </ul>
М	B29K 2227/06	<ul> <li>PVC, i.e. polyvinylchloride {(as such C08L 27/06)}</li> </ul>
М	B29K 2227/00	Use of polyvinylhalogenides {or derivatives thereof} as reinforcement <del>{(as</del> <del>such C08L 27/00)}</del>
М	B29K 2225/08	<ul> <li>{Copolymers of styrene, e.g. AS or SAN, i.e. acrylonitrile styrene (as such C08L 25/08; B29K 2255/02 takes precedence)}</li> </ul>
М	B29K 2225/06	<ul> <li>{PS, i.e. polystyrene (as such C08L 25/06)}</li> </ul>
М	B29K 2225/04	<ul> <li>{Polymers of styrene (as such C08L 25/04)}</li> </ul>
Μ	B29K 2225/00	Use of polymers of vinyl-aromatic compounds {or derivatives thereof} as reinforcement <del>{(as such C08L 25/00)}</del>
Μ	B29K 2223/38	<ul> <li>{Polymers of cycloalkenes, e.g. norbornene, or cyclopentene}</li> </ul>
М	B29K 2223/22	<ul> <li>• {Copolymers of isobutene, e.g. butyl rubber (as such C08L 23/22)}</li> </ul>
М	B29K 2223/18	<ul> <li>{Polymers of hydrocarbons having four or more carbon atoms, e.g. polymers of butylene (, e.g. PB, i.e. polybutylene) (as such C08L 23/18)}</li> </ul>

М	B29K 2239/08	<ul> <li>Polymers of vinyl-pyridine (as such C08L 39/08)</li> </ul>
Μ	B29K 2245/00	Use of polymers of unsaturated cyclic compounds having no unsaturated aliphatic groups in a side-chain, e.g. coumarone-indene resins {or derivatives thereof }, as reinforcement <del>{(as such C08L 45/00)}</del>
М	B29K 2249/00	Use of polyacetylene or cyanic ester resins, i.e. polymers having one or more carbon-to carbon triple bonds or derivatives thereof, as reinforcement (as such C08L 49/00)
Μ	B29K 2255/00	Use of specific polymers obtained by polymerisation reactions only involving carbon-to-carbon unsaturated bonds, not provided for in a single one of main groups <u>{B29K 2223/00</u> - <u>{B29K 2249/00}</u> , e.g. having a vinyl group}, as reinforcement <u>{(as such C08L 55/00)}</u>
Μ	B29K 2255/02	<ul> <li>ABS polymers, i.e. acrylonitrile-butadiene-styrene polymers {(as such C08L 55/02)}</li> </ul>
Μ	B29K 2259/00	Use of polyacetals {, e.g. POM, i.e. polyoxymethylene or derivatives thereof}, as reinforcement; or derivatives thereof}, as reinforcement {(as such C08L 59/00)}
Μ	B29K 2261/00	Use of condensation polymers of aldehydes or ketones {or derivatives thereof}, as reinforcement <del>{(as such C08L 61/00)}</del>
М	B29K 2261/04	<ul> <li>Phenoplasts {(as such C08L 61/04)}</li> </ul>
М	B29K 2261/20	<ul> <li>Aminoplasts <del>{(as such C08L 61/20)}</del></li> </ul>
М	B29K 2263/00	Use of {EP, i.e.} epoxy resins {or derivatives thereof} as reinforcement <del>{(as</del> such C08L 63/00)}
Μ	B29K 2265/00	Use of polyphenylenes <mark>or polyxylylenes, as reinforcement<del>(as such</del> <del>C08L 65/02)or polyxylylenes (as such C08L 65/04), as reinforcement</del></mark>
Μ	B29K 2267/00	Use of polyesters {or derivatives thereof} as reinforcement <del>{(as such</del> <del>C08L 67/00)}</del>
М	B29K 2267/04	<ul> <li>{Polyesters derived from hydroxycarboxylic acids (as such C08L 67/04)}</li> </ul>
М	B29K 2267/06	<ul> <li>{Unsaturated polyesters (as such C08L 67/06)}</li> </ul>
Μ	B29K 2269/00	Use of {PC, i.e.} polycarbonates {or derivatives thereof} as reinforcement <del>{(as such C08L 69/00)}</del>
М	B29K 2271/00	Use of polyethers <del>,</del> { <mark>,</mark> e.g. PEEK, i.e. polyether-etherketone or PEK, i.e. polyetherketone or derivatives thereof <mark>},} as reinforcement <del>{(as such</del> <del>C08L 71/00)}</del></mark>
Μ	B29K 2271/02	<ul> <li>{Polyalkylene oxides, e.g. PEO, i.e. polyethylene oxide or derivatives thereof (as such C08L 71/02)}</li> </ul>
Μ	B29K 2271/12	<ul> <li>{PPO, i.e. polyphenylene oxide (as such C08L 71/12); PPE, i.e. polyphenylene ether}</li> </ul>
Μ	B29K 2273/00	Use of other polymers having oxygen as the only hetero atom in the main chain, as reinforcement <del>{(as such C08L 73/00)}</del>
М	B29K 2275/00	Use of {PU, i.e.} polyureas or polyurethanes {or derivatives thereof <del>},}</del> as reinforcement <del>{(as such C08L 75/00)}</del>
М	B29K 2275/02	<ul> <li>{Polyureas {(as such C08L 75/02)}</li> </ul>
М	B29K 2277/00	Use of {PA, i.e.} polyamides, e.g. polyesteramides {or derivatives thereof},} as reinforcement {(as such C08L 77/00)}
Μ	B29K 2277/10	<ul> <li>{Aromatic polyamides <u>{</u>Polyaramides<u>}</u> or derivatives thereof <del>(as such</del> C08L 77/10)}</li> </ul>

М	B29K 2279/00	Use of polymers having nitrogen, with or without oxygen, or carbon only, in the main chain {not provided for in groups <u>B29K 2261/00</u> - <u>B29K 2277/00</u> },} as reinforcement <del>{(as such C08L 79/00)}</del>
М	B29K 2279/08	<ul> <li>{PI, i.e. polyimides or derivatives thereof (as such C08L 79/08)}</li> </ul>
Μ	B29K 2279/085	<ul> <li>{Thermoplastic polyimides, e.g. polyesterimides, polyetherimides [PEI], i.e.</li> <li>polyetherimides, or polyamideimides; Derivatives thereof}</li> </ul>
М	B29K 2281/00	Use of polymers having sulfur, with or without nitrogen, oxygen <del>,</del> or carbon only, in the main chain, as reinforcement <del>{(as such C08L 81/00)}</del>
Μ	B29K 2281/04	<ul> <li>{Polysulfides, e.g. PPS, i.e. polyphenylene sulfide, or derivatives thereof (as such C08L 81/04)}</li> </ul>
Μ	B29K 2281/06	<ul> <li>{PSU, i.e. polysulfones or derivatives thereof; PES, i.e. polyethersulfones, or derivatives thereof (as such C08L 81/06)}</li> </ul>
М	B29K 2283/00	Use of polymers having silicon, with or without sulfur, nitrogen, oxygen <del>,</del> or carbon only, in the main chain, as reinforcement <del>{(as such C08L 83/00)}</del>
Μ	B29K 2283/005	<ul> <li>{Liquid Silicone Rubbers [LSR] LSR, i.e. liquid silicone rubbers, or derivatives thereof}</li> </ul>
М	B29K 2285/00	Use of polymers having other elements <mark>{</mark> than silicon, sulfur, nitrogen, oxygen <del>, and or</del> carbon <del>} only</del> in the main chain, as reinforcement <del>{(as such <mark>C08L 85/00)}</mark></del>
Μ	B29K 2286/00	Use of specific polymers obtained by polycondensation or polyaddition, not provided for in a single one of main groups <mark>{B29K 2259/00</mark> - B29K 2285/00,} as reinforcement
М	B29K 2289/00	Use of proteins, e.g. casein, gelatine or derivatives thereof, as reinforcement <del>(as such C08L 89/00)</del>
Μ	B29K 2291/00	Use of waxes as reinforcement <del>{(as such C08L 91/06)}</del>
Μ	B29K 2293/00	Use of natural resins (as such C08L 93/00), e.g. shellac (as such C08L 93/02)Use of natural resins, e.g. shellac, or derivatives thereof, as reinforcement (B29K 2201/00, B29K 2203/00, B29K 2205/00, B29K 2207/00 and , B29K 2289/00 take precedence)
М	B29K 2295/00	Use of bituminous materials, as reinforcement <del>{(as such C08L 95/00)}</del>
М	B29K 2296/00	Use of specified macromolecular materials not provided for in a single one of main groups <mark>{B29K 2201/00</mark> - B29K 2295/00,} as reinforcement
Μ	B29K 2301/00	Use of unspecified macromolecular compounds as reinforcement ( <del>unspecified rubbers B29K 2221/00</del> - <i>use of unspecified rubbers</i> { <u>B29K 2221/00</u> }) <del>{(as such C08L 101/00)}</del>
U	B29K 2305/00	Use of metals, their alloys or their compounds, as reinforcement <u>NOTE</u> Alloys or compounds of specified metals are indexed with the same code as the specified metals.
U	B29K 2305/08	Transition metals
М	B29K 2305/14	<ul> <li>• {Noble metals, e.g. Silversilver, Gold, Platinumgold or platinum}</li> </ul>
U	B29K 2311/00	Use of natural products or their composites, not provided for in groups <u>B29K 2201/00</u> - <u>B29K 2309/00,</u> as reinforcement
М	B29K 2311/06	• Bone, horn,– <u>or</u> ivory
Μ	B29K 2311/10	<ul> <li>Natural fibres, e.g. wool, or cotton</li> </ul>

М	B29K 2311/14	• Wood, e.g. woodboard <del>, or</del> fibreboard
Μ	B29K 2313/00	Textile Use of textile products <del>,</del> or fabrics as reinforcement (B29K 2105/06) takes precedence)
М	B29K 2401/00	Use of cellulose, modified cellulose or cellulose derivatives, e.g. viscose, as filler <del>{(as such C08L 1/00)}</del>
		NOTE Copolymers are indexed with the same indexing code as the majority polymers
М	B29K 2401/08	<ul> <li>{Cellulose derivatives (as such C08L 1/08)}</li> </ul>
М	B29K 2401/12	<ul> <li>         • {Cellulose acetate (as such C08L 1/12)}     </li> </ul>
М	B29K 2401/14	<ul> <li>• {Cellulose acetate-butyrate (as such C08L 1/14)}</li> </ul>
М	B29K 2401/18	<ul> <li>• {Cellulose nitrate (as such C08L 1/18)}</li> </ul>
М	B29K 2403/00	Use of <del>{</del> starch or derivatives as filler <del>(as such C08L 3/00)}</del>
М	B29K 2405/00	Polysaccharides Use of polysaccharides or derivatives as filler(as such C08L 5/00)
М	B29K 2407/00	Use of natural rubber as filler <del>{(as such C08L 7/00)}</del>
М	B29K 2409/00	Use of rubber derived from conjugated dienes <mark>,</mark> as filler <del>{(as such</del> <del>C08L 9/00)}</del>
Μ	B29K 2409/06	<ul> <li>{SBR}SB polymers, i.e. butadiene-styrene {rubbers-polymers(as such C08L 9/06)}</li> </ul>
М	B29K 2411/00	Use of <del>{</del> rubber derived from chloroprene as filler <del>(as such C08L 11/00)}</del>
	B29K 2419/00	Use of rubber not provided for in a single one of main groups
М	B29K 2419/00	<u>{B29K 2407/00</u> - <u>{B29K 2411/00</u> }, as filler
м	B29K 2419/00	
		<u>{B29K 2407/00</u> - <u>{B29K 2411/00</u> }, as filler
М	B29K 2421/00	<pre>{B29K 2407/00 - {B29K 2411/00}, as filler</pre> Use of {unspecified rubbers as filler (as such C08L 21/00)}
M	B29K 2421/00 B29K 2423/00	<pre>{B29K 2407/00 - {B29K 2411/00}, as filler Use of {unspecified rubbers as filler (as such C08L 21/00)} Use of polyalkenes {or derivatives thereof} as filler {(as such C08L 23/00)}</pre>
<b>М</b> М	<b>B29K 2421/00</b> <b>B29K 2423/00</b> B29K 2423/04	<pre>{B29K 2407/00 - {B29K 2411/00}, as filler Use of {unspecified rubbers as filler (as such C08L 21/00)} Use of polyalkenes {or derivatives thereof} as filler {(as such C08L 23/00)} . {Polymers of ethylene (as such C08L 23/04)}</pre>
<b>М</b> М М	<b>B29K 2421/00</b> <b>B29K 2423/00</b> B29K 2423/04 B29K 2423/06	<pre>{B29K 2407/00 - {B29K 2411/00}, as filler Use of {unspecified rubbers as filler (as such C08L 21/00)} Use of polyalkenes {or derivatives thereof} as filler {(as such C08L 23/00)} • {Polymers of ethylene (as such C08L 23/04)} • • {PE, i.e. polyethylene (as such C08L 23/06)} • • {Use of copolymers of ethylene as filler (as such C08L 23/08; B29K 2423/16)</pre>
<b>М</b> М М	<b>B29K 2421/00</b> <b>B29K 2423/00</b> B29K 2423/04 B29K 2423/06 B29K 2423/08	<pre>{B29K 2407/00 - {B29K 2411/00}, as filler Use of {unspecified rubbers as filler (as such C08L 21/00)} Use of polyalkenes {or derivatives thereof} as filler {(as such C08L 23/00)} • {Polymers of ethylene (as such C08L 23/04)} • • {PE, i.e. polyethylene (as such C08L 23/06)} • • {Use of copolymers of ethylene as filler (as such C08L 23/08; B29K 2423/16 takes precedence)} • {Polymers of propylene (as such C08L 23/10)} • • {PP, i.e. polypropylene (as such C08L 23/12)}</pre>
<b>М</b> М М М	<b>B29K 2421/00</b> <b>B29K 2423/00</b> B29K 2423/04 B29K 2423/06 B29K 2423/08 B29K 2423/10	(B29K 2407/00 - {B29K 2411/00}, as filler Use of {unspecified rubbers as filler (as such C08L 21/00)} Use of polyalkenes {or derivatives thereof} as filler {(as such C08L 23/00)} • {Polymers of ethylene (as such C08L 23/04)} • {PE, i.e. polyethylene (as such C08L 23/06)} • {Use of copolymers of ethylene as filler (as such C08L 23/08; B29K 2423/16 takes precedence)} • {Polymers of propylene (as such C08L 23/10)} • {Polymers of propylene (as such C08L 23/10)} • {PP, i.e. polypropylene (as such C08L 23/12)} • {Copolymers of polypropylene (as such C08L 23/14; B29K 2423/16 takes precedence)}
<b>М</b> М М М	B29K 2421/00 B29K 2423/00 B29K 2423/04 B29K 2423/06 B29K 2423/08 B29K 2423/10 B29K 2423/12	(B29K 2407/00 - {B29K 2411/00}, as filler Use of {unspecified rubbers as filler (as such C08L 21/00)} Use of polyalkenes {or derivatives thereof} as filler {(as such C08L 23/00)} • {Polymers of ethylene (as such C08L 23/04)} • {PE, i.e. polyethylene (as such C08L 23/06)} • {Use of copolymers of ethylene as filler (as such C08L 23/08; B29K 2423/16 takes precedence)} • {Polymers of propylene (as such C08L 23/10)} • {Polymers of propylene (as such C08L 23/10)} • {PP, i.e. polypropylene (as such C08L 23/12)} • {Copolymers of polypropylene (as such C08L 23/14; B29K 2423/16 takes
M M M M M M	B29K 2421/00 B29K 2423/00 B29K 2423/04 B29K 2423/06 B29K 2423/08 B29K 2423/10 B29K 2423/12 B29K 2423/14	<b>(B29K 2407/00 - {B29K 2411/00}, as filler Use of {unspecified rubbers as filler <del>{as such C08L 21/00}}</del> <b>Use of polyalkenes {or derivatives thereof} as filler <del>{(as such C08L 23/00)}</del> • {Polymers of ethylene <del>{as such C08L 23/04}}</del> • {PE, i.e. polyethylene <del>{as such C08L 23/06</del>}} • {Use of copolymers of ethylene as filler <del>{as such C08L 23/08; B29K 2423/16</del> takes precedence}} • {Polymers of propylene <del>{as such C08L 23/10}}</del> • {Polymers of propylene <del>{as such C08L 23/10}}</del> • {PP, i.e. polypropylene <del>{as such C08L 23/10}}</del> • {Copolymers of polypropylene <del>{as such C08L 23/12}}</del> • {Copolymers of polypropylene <del>{as such C08L 23/12}}</del> • {EPM, i.e. ethylene-propylene copolymers; EPDM, i.e. ethylene-propylene-diene copolymers; EPT, i.e. ethylene-propylene terpolymers <del>{as such C08L 23/14; B29K 2423/16</del> takes precedence}}</b></b>
<b>М</b> М М М М	B29K 2421/00 B29K 2423/00 B29K 2423/04 B29K 2423/06 B29K 2423/08 B29K 2423/10 B29K 2423/12 B29K 2423/14 B29K 2423/16	<pre>{B29K 2407/00 - {B29K 2411/00}, as filler Use of {unspecified rubbers as filler (as such C08L 21/00)} Use of polyalkenes {or derivatives thereof} as filler {(as such C08L 23/00)} . {Polymers of ethylene (as such C08L 23/04)} . {PE, i.e. polyethylene (as such C08L 23/06)} . {Use of copolymers of ethylene as filler (as such C08L 23/08; B29K 2423/16 takes precedence)} . {Polymers of propylene (as such C08L 23/10)} . {Polymers of propylene (as such C08L 23/12)} . {Copolymers of polypropylene (as such C08L 23/14; B29K 2423/16 takes precedence)} . {EPM, i.e. ethylene-propylene copolymers; EPDM, i.e. ethylene-propylene- diene copolymers; EPT, i.e. ethylene-propylene terpolymers (as such C08L 23/16)} . {Polymers of hydrocarbons having four or more carbon atoms, e.g. polymers of</pre>
м м м м м м	B29K 2421/00 B29K 2423/00 B29K 2423/04 B29K 2423/06 B29K 2423/08 B29K 2423/10 B29K 2423/12 B29K 2423/14 B29K 2423/16 B29K 2423/18	<pre>{B29K 2407/00 - {B29K 2411/00}, as filler Use of {unspecified rubbers as filler {as such C08L 21/00}} Use of polyalkenes {or derivatives thereof} as filler {(as such C08L 23/00)}</pre>
м м м м м м м	B29K 2421/00 B29K 2423/00 B29K 2423/04 B29K 2423/06 B29K 2423/08 B29K 2423/10 B29K 2423/12 B29K 2423/14 B29K 2423/16 B29K 2423/18 B29K 2423/22	<pre>{B29K 2407/00 - {B29K 2411/00}, as filler Use of {unspecified rubbers as filler (as such C08L 21/00)} Use of polyalkenes {or derivatives thereof} as filler {(as such C08L 23/00)}</pre>
м м м м м м м м	B29K 2421/00 B29K 2423/00 B29K 2423/04 B29K 2423/06 B29K 2423/08 B29K 2423/10 B29K 2423/12 B29K 2423/14 B29K 2423/16 B29K 2423/18 B29K 2423/22 B29K 2423/38	{B29K 2407/00 - {B29K 2411/00}, as filler Use of {unspecified rubbers as filler {as such C08L 21/00)} Use of polyalkenes {or derivatives thereof} as filler {(as such C08L 23/00)} • {Polymers of ethylene {as such C08L 23/04}} • {Pe, i.e. polyethylene {as such C08L 23/06}} • {Use of copolymers of ethylene as filler (as such C08L 23/08; B29K 2423/16 takes precedence)} • {Polymers of propylene {as such C08L 23/10}} • {Polymers of propylene (as such C08L 23/10)} • {Polymers of propylene (as such C08L 23/10)} • {Polymers of polypropylene (as such C08L 23/12)} • {Copolymers of polypropylene (as such C08L 23/14; B29K 2423/16 takes precedence)} • {PP, i.e. ethylene-propylene copolymers; EPDM, i.e. ethylene-propylene-diene copolymers; EPT, i.e. ethylene-propylene terpolymers (as such C08L 23/16)} • {Polymers of hydrocarbons having four or more carbon atoms, e.g. polymers of butylene {, e.g. PB, i.e. polybutylene) (as such C08L 23/18)} • {Copolymers of isobutene, e.g. butyl rubber (as such C08L 23/22)} • {Polymers of cycloalkenes, e.g. norbornene; or cyclopentene} Use of polymers of vinyl-aromatic compounds {or derivatives thereof} as

Μ	B29K 2425/08	<ul> <li>• {Copolymers of styrene, e.g. AS or SAN, i.e. acrylonitrile styrene (as such C08L 25/08; B29K 2455/02 takes precedence)}</li> </ul>
Μ	B29K 2427/00	Use of polyvinylhalogenides {or derivatives thereof} as filler <del>{(as such</del> <del>C08L 27/00)}</del>
М	B29K 2427/06	<ul> <li>PVC, i.e. polyvinylchloride {(as such C08L 27/06)}</li> </ul>
М	B29K 2427/08	<ul> <li>{PVDC, i.e. polyvinylidene chloride (as such C08L 27/08)}</li> </ul>
М	B29K 2427/12	<ul> <li>containing fluorine {(as such C08L 27/12)}</li> </ul>
М	B29K 2427/14	<ul> <li>• {PVF, i.e. polyvinyl fluoride (as such C08L 27/14)}</li> </ul>
М	B29K 2427/16	<ul> <li>{PVDF, i.e. polyvinylidene fluoride (as such C08L 27/16)}</li> </ul>
Μ	B29K 2427/18	<ul> <li>PTFE, i.e. polytetrafluorethene {(as such C08L 27/18)PTFE, i.e. polytetrafluorethene {, e.g. ePTFE, i.e. expanded polytetrafluorethene, Gore Tex (R)}</li> </ul>
М	B29K 2429/00	Use of polyvinylalcohols, polyvinylethers, polyvinylaldehydes, polyvinylketones or polyvinylketals {or derivatives thereof <mark>},}</mark> as filler <del>{(as</del> <del>such C08L 29/00)}</del>
Μ	B29K 2429/04	<ul> <li>{PVOH, i.e. polyvinyl alcohol (as such C08L 29/04; B29K 2431/04 takes precedence)}</li> </ul>
Μ	B29K 2431/00	Use of polyvinylesters {or derivatives thereof} as filler <del>{(as such</del> <del>C08L 31/00)}</del>
Μ	B29K 2431/04	<ul> <li>{Polymers of vinyl acetate, e.g. PVAc, i.e. polyvinyl acetate (as such C08L-31/04)}</li> </ul>
М	B29K 2433/00	Use of polymers of unsaturated acids or derivatives thereof <mark>,</mark> as filler <del>{(as</del> <del>such C08L 33/00)}</del> ( <u>B29K 2435/00</u> takes precedence)
М	B29K 2433/04	<ul> <li>Polymers of esters <del>{(as such C08L 33/04)}</del></li> </ul>
Μ	B29K 2433/08	<ul> <li>{Polymers of acrylic acid esters, e.g. PMA, i.e. polymethylacrylate (as such C08L 33/08)}</li> </ul>
Μ	B29K 2433/12	<ul> <li>{Polymers of methacrylic acid esters, e.g. PMMA, i.e. polymethylmethacrylate (as such C08L 33/12)}</li> </ul>
М	B29K 2433/18	<ul> <li>Polymers of nitriles {(as such C08L 33/18)}</li> </ul>
М	B29K 2433/20	<ul> <li>PAN, i.e. polyacrylonitrile {(as such C08L 33/20)}</li> </ul>
М	B29K 2435/00	Use of polymers of unsaturated polycarboxylic acids {or derivatives thereof} as filler <del>{(as such C08L 35/00)}</del>
М	B29K 2439/00	Use of polymers with unsaturated aliphatic radicals and with a nitrogen or a heterocyclic ring containing nitrogen in a side chain or derivatives thereof, as filler (as such C08L 39/00)
М	B29K 2439/06	<ul> <li>Polymers of N-vinyl-pyrrolidones (as such C08L 39/06)</li> </ul>
М	B29K 2439/08	<ul> <li>Polymers of vinyl-pyridine (as such C08L 39/08)</li> </ul>
М	B29K 2445/00	Use of polymers of unsaturated cyclic compounds having no unsaturated aliphatic groups in a side-chain, e.g. coumarone-indene resins {or derivatives thereof}, as filler <del>{(as such C08L 45/00)}</del>
М	B29K 2449/00	Use of polyacetylene or cyanic ester resins, i.e. polymers having one or more carbon-to <mark>-</mark> carbon triple bonds or derivatives thereof, as filler <del>(as such C08L 49/00)</del>
М	B29K 2455/00	Use of specific polymers obtained by polymerisation reactions only involving carbon-to-carbon unsaturated bonds, not provided for in a single one of main groups B29K 2023/00{B29K 2423/00} - {B29K 2449/00B29K49/00, e.g. having a vinyl group}, as filler <del>{(as such C08L 55/00)}</del>

Μ	B29K 2455/02	<ul> <li>ABS polymers, i.e. acrylonitrile-butadiene-styrene polymers        </li></ul>
М	B29K 2459/00	Use of polyacetals {, e.g. POM, i.e. polyoxymethylene <mark> or derivatives</mark> thereof}, as filler <mark>; or derivatives thereof}, as filler {(as such C08L 59/00)}</mark>
М	B29K 2461/00	Use of condensation polymers of aldehydes or ketones {or derivatives thereof}, as filler <del>{(as such C08L 61/00)}</del>
Μ	B29K 2461/04	<ul> <li>Phenoplasts {(as such C08L 61/04)}</li> </ul>
Μ	B29K 2461/20	<ul> <li>Aminoplasts {(as such C08L 61/20)}</li> </ul>
М	B29K 2463/00	Use of {EP, i.e.} epoxy resins {or derivatives thereof} as filler <del>{(as such</del> <del>C08L 63/00)}</del>
М	B29K 2465/00	Use of polyphenylenes <mark>or polyxylylenes as filler<del>(as such C08L 65/02)or</del> <del>polyxylylenes (as such C08L 65/04), as filler</del></mark>
М	B29K 2467/00	Use of polyesters {or derivatives thereof} as filler <del>{(as such C08L 67/00)}</del>
М	B29K 2467/003	<ul> <li>{PET, i.e. poylethylenepolyethylene terephthalate}</li> </ul>
М	B29K 2467/04	<ul> <li>{Polyesters derived from hydroxycarboxylic acids (as such C08L 67/04)}</li> </ul>
М	B29K 2467/06	<ul> <li>{Unsaturated polyesters (as such C08L 67/06)}</li> </ul>
М	B29K 2469/00	Use of {PC, i.e.} polycarbonates {or derivatives thereof} as filler <del>{(as such</del> <del>C08L 69/00)}</del>
М	B29K 2471/00	Use of polyethers <del>,</del> { <mark>,</mark> e.g. PEEK, i.e. polyether-etherketone or PEK, i.e. polyetherketone or derivatives thereof <mark>},} as filler <del>{{as such C08L 71/00}}</del></mark>
Μ	B29K 2471/02	<ul> <li>{Polyalkylene oxides, e.g. PEO, i.e. polyethylene oxide or derivatives thereof (as such C08L 71/02)}</li> </ul>
Μ	B29K 2471/12	<ul> <li>{PPO, i.e. polyphenylene oxide (as such C08L 71/12); PPE, i.e. polyphenylene ether}</li> </ul>
М	B29K 2473/00	Use of other polymers having oxygen as the only hetero atom in the main chain, as filler <del>{(as such C08L 73/00)}</del>
М	B29K 2475/00	Use of {PU, i.e.} polyureas or polyurethanes {or derivatives thereof <mark>},}</mark> as filler <del>{{as such C08L 75/00}}</del>
М	B29K 2475/02	<ul> <li>{Polyureas {(as such C08L 75/02)}</li> </ul>
М	B29K 2477/00	Use of {PA, i.e.} polyamides, e.g. polyesteramides {or derivatives thereof }, as filler <del>{(as such C08L 77/00)}</del>
Μ	B29K 2477/10	<ul> <li>{Aromatic polyamides (Polyaramides)[polyaramides] or derivatives thereof (as such C08L 77/10)}</li> </ul>
М	B29K 2479/00	Use of polymers having nitrogen, with or without oxygen <del>,</del> or carbon only, in the main chain {not provided for in groups <u>B29K 2461/00</u> - <u>B29K 2477/00</u> }, as filler <del>{(as such C08L 79/00)}</del>
М	B29K 2479/08	<ul> <li>{PI, i.e. polyimides or derivatives thereof (as such C08L 79/08)}</li> </ul>
Μ	B29K 2479/085	<ul> <li>{Thermoplastic polyimides, e.g. polyesterimides, polyetherimides [PEI], i.e.</li> <li>polyetherimides, or polyamideimides; Derivatives thereof}</li> </ul>
М	B29K 2481/00	Use of polymers having sulfur, with or without nitrogen, oxygen <del>,</del> or carbon only, in the main chain, as filler <del>{(as such C08L 81/00)}</del>
Μ	B29K 2481/04	<ul> <li>{Polysulfides, e.g. PPS, i.e. polyphenylene sulfide or derivatives thereof (as such C08L 81/04)}</li> </ul>
Μ	B29K 2481/06	<ul> <li>{PSU, i.e. polysulfones; PES, i.e. polyethersulfones or derivatives thereof (as such C08L 81/06)}</li> </ul>

М	B29K 2483/00	Use of polymers having silicon, with or without sulfur, nitrogen, oxygen <del>,</del> or carbon only, in the main chain, as filler <del>{(as such C08L 83/00)}</del>
Μ	B29K 2483/005	<ul> <li>{Liquid Silicone Rubbers [LSR] LSR, i.e. liquid silicone rubbers or derivatives thereof}</li> </ul>
М	B29K 2485/00	Use of polymers having other elements <del>{</del> than silicon, <del>{</del> sulfur, <del>}</del> nitrogen, oxygen <del>, and or</del> carbon <del>} only</del> in the main chain, as filler <del>{(as such</del> <del>C08L 85/00)}</del>
М	B29K 2486/00	Use of specific polymers obtained by polycondensation or polyaddition, not provided for in a single one of main groups <u>{B29K 2459/00</u> - <u>B29K 2485/00,}</u> as filler
М	B29K 2489/00	Use of proteins, e.g. casein <del>, or</del> gelatine or derivatives thereof, as filler <del>(as</del> <del>such C08L 89/00)</del>
М	B29K 2491/00	Use of waxes as filler <del>{(as such C08L 91/06)}</del>
М	B29K 2493/00	Use of natural resins (as such C08L 93/00), e.g. shellac (as such C08L 93/02)Use of natural resins, e.g. shellac, or derivatives thereof, as filler (B29K 2401/00, B29K 2403/00, B29K 2405/00, B29K 2407/00 and , B29K 2489/00 take precedence)
М	B29K 2495/00	Use of bituminous materials, as filler <del>{(as such C08L 95/00)}</del>
Μ	B29K 2496/00	Use of specified macromolecular materials not provided for in a single one of main groups <mark>{B29K 2401/00</mark> - <u>B29K 2495/00,</u> } as filler
М	B29K 2496/02	<ul> <li>Graft polymers (B29K 2455/02 takes precedence)</li> </ul>
М	B29K 2496/04	<ul> <li>Block polymers (B29K 2455/02 takes precedence)</li> </ul>
М	B29K 2501/00	Use of unspecified macromolecular compounds as filler ( <del>unspecified</del> rubbers B29K 2421/00 use of unspecified rubbers {B29K 2421/00}) <del>{(as such</del> C08L 101/00)}
U	B29K 2505/00	Use of metals, their alloys or their compounds, as filler
		NOTE
		Alloys or compounds of specified metals are indexed with the same code as the specified metals.
U	B29K 2505/08	Transition metals
М	B29K 2505/14	<ul> <li>Noble metals, e.g. silver, Gold, Platinumgold or platinum</li> </ul>
М	B29K 2509/00	Use of inorganic materials not provided for in groups <mark>{B29K 2503/00</mark> - B29K 2507/00, <mark>}</mark> as filler
М	B29K 2511/00	Use of natural products or their composites, not provided for in groups {B29K 2401/00 - B29K 2509/00,} as filler
М	B29K 2511/06	• Bone, horn <del>, or</del> ivory
М	B29K 2511/10	<ul> <li>Natural fibres, e.g. wool, or cotton</li> </ul>
М	B29K 2511/14	<ul> <li>Wood, e.g. woodboard, or fibreboard</li> </ul>
М	B29K 2601/00	Use of cellulose, modified cellulose or cellulose derivatives, e.g. viscose, for preformed parts, e.g. <del>inserts {for inserts(as such C08L 1/00)}</del>
		<u>NOTE</u> Copolymers are indexed with the same indexing code as the majority polymers
М	B29K 2601/08	<ul> <li>{Cellulose derivatives (as such C08L 1/08)}</li> </ul>

М	B29K 2601/14	(Collulado acostato buturato (ac such C001, $1/(14))$
M	B29K 2601/14 B29K 2601/18	<ul> <li>• {Cellulose acetate-butyrate (as such C08L 1/14)}</li> <li>• {Cellulose nitrate (as such C08L 1/18)}</li> </ul>
IVI	B29K 2001/10	
М	B29K 2603/00	Use of <del>{</del> starch or derivatives for preformed parts, e.g. inserts for inserts(as such C08L 3/00)}
М	B29K 2605/00	Polysaccharides Use of polysaccharides or derivatives for preformed parts, e.g. for inserts (as such C08L 5/00)
Μ	B29K 2607/00	Use of natural rubber for preformed parts, e.g. <del>inserts {for inserts(as such</del> <del>C08L 7/00)}</del>
М	B29K 2609/00	Use of rubber derived from conjugated dienes for preformed parts, e.g. <del>inserts {for inserts(as such C08L 9/00)}</del>
Μ	B29K 2609/06	<ul> <li>{SBR}SB polymers, i.e. butadiene-styrene {rubbers-polymers(as such C08L 9/06)}</li> </ul>
Μ	B29K 2611/00	Use of <del>{</del> rubber derived from chloroprene for preformed parts, e.g. <del>inserts</del> <mark>for inserts(as such C08L 11/00)}</mark>
М	B29K 2619/00	Use of rubber not provided for in a single one of main groups <mark>{B29K 2607/00</mark> - <del>{B29K 2611/00},}</del> for preformed parts, e.g. <i>for</i> inserts
Μ	B29K 2621/00	Use of <del>{</del> unspecified rubbers for preformed parts, e.g. <del>inserts for inserts(as</del> such C08L 21/00)}
М	B29K 2623/00	Use of polyalkenes {or derivatives thereof} for preformed parts, e.g. <del>inserts</del> { <mark>for inserts(as such C08L 23/00)}</mark>
Μ	B29K 2623/04	<ul> <li>{Polymers of ethylene (as such C08L 23/04)}</li> </ul>
М	B29K 2623/06	<ul> <li>• {PE, i.e. polyethylene (as such C08L 23/06)}</li> </ul>
Μ	B29K 2623/08	<ul> <li>{Use Copolymers of copolymers of ethylene for preformed parts, e.g. inserts (as such C08L 23/08; B29K 2623/16 takes precedence)}</li> </ul>
Μ	B29K 2623/10	<ul> <li>{Polymers of propylene (as such C08L 23/10)}</li> </ul>
Μ	B29K 2623/12	<ul> <li>• {PP, i.e. polypropylene (as such C08L 23/12)}</li> </ul>
Μ	B29K 2623/14	<ul> <li>- {Copolymers of polypropylene (as such C08L 23/14; B29K 2623/16 takes precedence)}</li> </ul>
Μ	B29K 2623/16	<ul> <li>{EPM, i.e. ethylene-propylene copolymers; EPDM, i.e. ethylene-propylene- diene copolymers; EPT, i.e. ethylene-propylene terpolymers (as such C08L 23/16)}</li> </ul>
Μ	B29K 2623/18	<ul> <li>{Polymers of hydrocarbons having four or more carbon atoms, e.g. polymers of butylene (, e.g. PB, i.e. polybutylene) (as such C08L 23/18)}</li> </ul>
М	B29K 2623/22	<ul> <li>• {Copolymers of isobutene, e.g. butyl rubber (as such C08L 23/22)}</li> </ul>
М	B29K 2623/38	<ul> <li>{Polymers of cycloalkenes, e.g. norbornene, or cyclopentene}</li> </ul>
М	B29K 2625/00	Use of polymers of vinyl-aromatic compounds {or derivatives thereof} for preformed parts, e.g. <del>inserts {for inserts(as such C08L 25/00)}</del>
М	B29K 2625/04	{Polymers of styrene (as such C08L 25/04)}
М	B29K 2625/06	<ul> <li>{PS, i.e. polystyrene (as such C08L 25/06)}</li> </ul>
Μ	B29K 2625/08	<ul> <li>{Copolymers of styrene, e.g. AS or SAN, i.e. acrylonitrile styrene (as such <u>C08L-25/08; B29K 2655/02</u> takes precedence)}</li> </ul>
Μ	B29K 2627/00	Use of polyvinylhalogenides {or derivatives thereof} for preformed parts, e.g. <del>inserts {for inserts(as such C08L 27/00)}</del>
М	B29K 2627/06	<ul> <li>PVC, i.e. polyvinylchloride {(as such C08L 27/06)}</li> </ul>
М	B29K 2627/08	<ul> <li>{PVDC, i.e. polyvinylidene chloride (as such C08L 27/08)}</li> </ul>

М	B29K 2627/12	<ul> <li>containing fluorine {(as such C08L 27/12)}</li> </ul>
М	B29K 2627/14	<ul> <li>• {PVF, i.e. polyvinyl fluoride (as such C08L 27/14)}</li> </ul>
М	B29K 2627/16	<ul> <li>• {PVDF, i.e. polyvinylidene fluoride (as such C08L 27/16)}</li> </ul>
Μ	B29K 2627/18	<ul> <li>PTFE, i.e. polytetrafluorethene {(as such C08L 27/18)PTFE, i.e. polytetrafluorethene {, e.g. ePTFE, i.e. expanded polytetrafluorethene, Gore Tex (R)}</li> </ul>
М	B29K 2629/00	Use of polyvinylalcohols, polyvinylethers, polyvinylaldehydes, polyvinylketones or polyvinylketals {or derivatives thereof}, for preformed parts, e.g. <del>inserts {f<i>or inserts</i> (as such C08L 29/00)}</del>
Μ	B29K 2629/04	<ul> <li>{PVOH, i.e. polyvinyl alcohol (as such C08L 29/04; B29K 2631/04 takes precedence)}</li> </ul>
М	B29K 2631/00	Use of polyvinylesters {or derivatives thereof} for preformed parts, e.g. <del>inserts {for inserts(as such C08L 31/00)}</del>
Μ	B29K 2631/04	<ul> <li>{Polymers of vinyl acetate, e.g. PVAc, i.e. polyvinyl acetate (as such C08L 31/04)}</li> </ul>
М	B29K 2633/00	Use of polymers of unsaturated acids or derivatives thereof for preformed parts, e.g. <u>for</u> inserts <del>{(as such C08L 33/00)}</del> ({ <u>B29K 2635/00</u> } takes precedence)
М	B29K 2633/04	<ul> <li>Polymers of esters {(as such C08L 33/04)}</li> </ul>
М	B29K 2633/08	<ul> <li>• {Polymers of acrylic acid esters, e.g. PMA, i.e. polymethylacrylate (as such C08L 33/08)}</li> </ul>
Μ	B29K 2633/12	<ul> <li>• {Polymers of methacrylic acid esters, e.g. PMMA, i.e. polymethylmethacrylate (as such C08L 33/12)}</li> </ul>
М	B29K 2633/18	<ul> <li>Polymers of nitriles {(as such C08L 33/18)}</li> </ul>
М	B29K 2633/20	<ul> <li>PAN, i.e. polyacrylonitrile {(as such C08L 33/20)}</li> </ul>
Μ	B29K 2633/26	<ul> <li>{Polymers of acrylamide or methacrylamide (as such C08L 33/26)}</li> </ul>
М	B29K 2635/00	Use of polymers of unsaturated polycarboxylic acids <del>{</del> or derivatives thereof <del>}</del> for preformed parts, e.g. <del>inserts {for inserts(as such C08L 35/00)}</del>
М	B29K 2639/00	Use of polymers with unsaturated aliphatic radicals and with a nitrogen or a heterocyclic ring containing nitrogen in a side chain or derivatives thereof, for preformed parts, e.g. inserts for inserts (as such C08L 39/00)
М	B29K 2639/06	<ul> <li>Polymers of N-vinyl-pyrrolidones (as such C08L 39/06)</li> </ul>
М	B29K 2639/08	<ul> <li>Polymers of vinyl-pyridine (as such C08L 39/08)</li> </ul>
М	B29K 2645/00	Use of polymers of unsaturated cyclic compounds having no unsaturated aliphatic groups in a side-chain, e.g. coumarone-indene resins {or derivatives thereof}, for preformed parts, e.g. inserts {for inserts (as such C08L 45/00)}
м	B29K 2649/00	Use of polyacetylene or cyanic ester resins, i.e. polymers having one or more carbon-to carbon triple bonds or derivatives thereof, for preformed parts, e.g. inserts for inserts(as such C08L 49/00)
М	B29K 2655/00	Use of specific polymers obtained by polymerisation reactions only involving carbon-to-carbon unsaturated bonds, not provided for in a single one of main groups <mark>{B29K 2623/00</mark> - <del>{B29K 2649/00</del> , e.g. having a vinyl group <del>},}</del> for preformed parts, e.g. inserts {for inserts(as such C08L 55/00)}
М	B29K 2655/02	<ul> <li>ABS polymers, i.e. acrylonitrile-butadiene-styrene polymers {(as such C08L 55/02)}</li> </ul>

Μ	B29K 2659/00	Use of polyacetals {, e.g. POM, i.e. polyoxymethylene <mark>, or derivatives</mark> thereof} for preformed parts, e.g. for inserts; or derivatives thereof}, for preformed parts, e.g. inserts {(as such C08L 59/00)}
М	B29K 2661/00	Use of condensation polymers of aldehydes or ketones {or derivatives thereof}, for preformed parts, e.g. <del>inserts {<i>for inserts</i> (as such C08L 61/00)}</del>
М	B29K 2661/04	<ul> <li>Phenoplasts <del>{(as such C08L 61/04)}</del></li> </ul>
М	B29K 2661/20	<ul> <li>Aminoplasts <del>{(as such C08L 61/20)}</del></li> </ul>
М	B29K 2663/00	Use of <del>{</del> EP, i.e. <del>}</del> epoxy resins <del>{</del> or derivatives thereof <del>}</del> for preformed parts, e.g. <del>inserts {for inserts(as such C08L 63/00)}</del>
Μ	B29K 2665/00	<del>Use of polyphenylenes (as such C08L 65/02)or polyxylylenes (as such</del> <del>C08L 65/04)</del> Use of polyphenylenes or polyxylylenes, for preformed parts, e.g. <mark>for</mark> inserts
Μ	B29K 2667/00	Use of polyesters {or derivatives thereof} for preformed parts, e.g. <del>inserts</del> <del>{for inserts(as such C08L 67/00)}</del>
М	B29K 2667/04	<ul> <li>{Polyesters derived from hydroxycarboxylic acids (as such C08L 67/04)}</li> </ul>
М	B29K 2667/06	<ul> <li>{Unsaturated polyesters (as such C08L 67/06)}</li> </ul>
М	B29K 2669/00	Use of {PC, i.e.} polycarbonates {or derivatives thereof} for preformed parts, e.g. <del>inserts {for inserts(as such C08L 69/00)}</del>
Μ	B29K 2671/00	Use of polyethers <mark>, {,</mark> e.g. PEEK, i.e. polyether-etherketone or PEK, i.e. polyetherketone <mark>,</mark> or derivatives thereof <mark>},} for preformed parts, e.g. <del>inserts</del> <del>{for inserts(as such C08L 71/00)}</del></mark>
Μ	B29K 2671/02	<ul> <li>{Polyalkylene oxides, e.g. PEO, i.e. polyethylene oxide, or derivatives thereof (as such C08L 71/02)}</li> </ul>
М	B29K 2671/12	<ul> <li>{PPO, i.e. polyphenylene oxide (as such C08L 71/12); PPE, i.e. polyphenylene ether}</li> </ul>
М	B29K 2673/00	Use of other polymers having oxygen as the only hetero atom in the main chain, for preformed parts, e.g. <del>inserts {for inserts(as such C08L 73/00)}</del>
М	B29K 2675/00	Use of {PU, i.e.} polyureas or polyurethanes {or derivatives thereof <mark>},}</mark> for preformed parts, e.g. <del>inserts {for inserts (as such C08L 75/00)}</del>
М	B29K 2675/02	<ul> <li>{Polyureas {(as such C08L 75/02)}</li> </ul>
М	B29K 2677/00	Use of {PA, i.e.} polyamides, e.g. polyesteramides {or derivatives thereof <del>},}</del> for preformed parts, e.g. <del>inserts {<i>for inserts</i> (as such C08L 77/00)}</del>
Μ	B29K 2677/10	<ul> <li>{Aromatic polyamides (Polyaramides)[polyaramides] or derivatives thereof (as such C08L 77/10)}</li> </ul>
Μ	B29K 2679/00	Use of polymers having nitrogen, with or without oxygen <del>,</del> or carbon only, in the main chain {not provided for in groups <u>B29K 2661/00</u> - <u>B29K 2677/00</u> }, for preformed parts, e.g. <del>inserts {<i>for inserts</i> (as such C08L 79/00)}</del>
М	B29K 2679/08	<ul> <li>{PI, i.e. polyimides or derivatives thereof (as such C08L 79/08)}</li> </ul>
М	B29K 2679/085	<ul> <li>{Thermoplastic polyimides, e.g. polyesterimides, <i>PEI, i.e.</i> polyetherimides [PEI];or polyamideimides; Derivatives thereof}</li> </ul>
Μ	B29K 2681/00	Use of polymers having sulfur, with or without nitrogen, oxygen <del>,</del> or carbon only, in the main chain, for preformed parts, e.g. <del>inserts {for inserts(as</del> such C08L 81/00)}
Μ	B29K 2681/04	<ul> <li>{Polysulfides, e.g. PPS, i.e. polyphenylene sulfide, or derivatives thereof (as such C08L 81/04)}</li> </ul>

Μ	B29K 2681/06	<ul> <li>{PSU, i.e. polysulfones; PES, i.e. polyethersulfones or derivatives thereof (as such C08L 81/06)}</li> </ul>
М	B29K 2683/00	Use of polymers having silicon, with or without sulfur, nitrogen, oxygen <del>,</del> or carbon only, in the main chain, for preformed parts, e.g. <del>inserts {for</del> inserts <del>(as such C08L 83/00)}</del>
Μ	B29K 2683/005	<ul> <li>{Liquid Silicone Rubbers [LSR] LSR, i.e. liquid silicone rubbers or derivatives thereof}</li> </ul>
М	B29K 2685/00	Use of polymers having <del>other</del> elements <del>{other</del> than silicon, {sulfur,} nitrogen, oxygen <del>, and or</del> carbon <del>}- only</del> in the main chain, for preformed parts, e.g. <del>inserts {for inserts(as such C08L 85/00)}</del>
М	B29K 2686/00	Use of specific polymers obtained by polycondensation or polyaddition, not provided for in a single one of main groups <u>{B29K 2659/00</u> - <u>B29K 2685/00,}</u> for preformed parts, e.g. for inserts
М	B29K 2689/00	Use of proteins, e.g. casein, gelatine or derivatives thereof, for preformed parts, e.g. <del>inserts for inserts (as such C08L 89/00)</del>
М	B29K 2691/00	Use of waxes for preformed parts, e.g. <del>inserts {for inserts(as such</del> <del>C08L 91/06)}</del>
М	B29K 2693/00	Use of natural resins (as such C08L 93/00), e.g. shellac (as such C08L 93/02)Use of natural resins, e.g. shellac, or derivatives thereof, for preformed parts, e.g. for inserts (B29K 2601/00, B29K 2603/00, B29K 2605/00, B29K 2607/00 and , B29K 2689/00 take precedence)
М	B29K 2695/00	Use of bituminous materials, for preformed parts, e.g. <del>inserts {for</del> inserts <del>(as such C08L 95/00)}</del>
М	B29K 2696/00	Use of specified macromolecular materials not provided for in a single one of main groups <u>B29K 2601/00</u> B29K 2695/00, for preformed parts, e.g. for inserts
М	B29K 2701/00	Use of unspecified macromolecular compounds for preformed parts, e.g. f <mark>or</mark> inserts ( <del>unspecified rubbers B29K 2621/00</del> use of unspecified rubbers {B29K 2621/00}) <del>{(as such C08L 101/00)}</del>
U	B29K 2705/00	Use of metals, their alloys or their compounds, for preformed parts, e.g. for inserts
		<u>NOTE</u> Alloys or compounds of specified metals are indexed with the same code as the specified metals.
U	B29K 2705/08	Transition metals
М	B29K 2705/14	<ul> <li>Noble metals, e.g. silver, Gold, Platinumgold or platinum</li> </ul>
М	B29K 2709/00	Use of inorganic materials not provided for in groups <del>B29K 2603/00{<i>B29K 2703/00</i></del> - <mark>B29K 2607/00<i>B29K 2707/00}</i>, for preformed parts, e.g. for inserts</mark>
Μ	B29K 2711/00	Use of natural products or their composites, not provided for in groups <mark>{B29K 2601/00</mark> - <u>B29K 2709/00,</u> } for preformed parts, e.g. for inserts
М	B29K 2711/06	• Bone, horn <del>, or</del> ivory
М	B29K 2711/10	<ul> <li>Natural fibres, e.g. wool, or cotton</li> </ul>
Μ	B29K 2711/14	<ul> <li>Wood, e.g. woodboard, or fibreboard</li> </ul>
М	B29K 2713/00	Textile Use of textile products or fabrics for preformed parts, fabrics e.g. for inserts (B29K 2105/06 takes precedence)

Μ	B29K 2713/02	coated
		<u>NOTE</u> Copolymers are indexed with the same indexing code as the majority polymers
U	B29K 2715/00	Condition, form or state of preformed parts, e.g. inserts
М	B29K 2715/006	<ul> <li>Glues, or adhesives, e.g. hot melts, or thermofusible adhesives</li> </ul>
М	B29K 2801/00	Use of cellulose, modified cellulose or cellulose derivatives, e.g. viscose, as mould material <mark>(as such C08L 1/00)</mark>
Μ	B29K 2801/08	<ul> <li>Cellulose derivatives (as such C08L 1/08)</li> </ul>
М	B29K 2801/12	<ul> <li>Cellulose acetate (as such C08L 1/12)</li> </ul>
Μ	B29K 2801/14	<ul> <li>Cellulose acetate-butyrate (as such C08L 1/14)</li> </ul>
Μ	B29K 2801/18	<ul> <li>Cellulose nitrate (as such C08L 1/18)</li> </ul>
м	B29K 2803/00	Use of starch or derivatives as mould material <del>(as such C08L 3/00)</del>
М	B29K 2805/00	<del>Polysaccharides Use of polysaccharides</del> or derivatives <mark>as mould</mark> material <del>(as such C08L 5/00)</del>
М	B29K 2807/00	Use of natural rubber as mould material <del>(as such C08L 7/00)</del>
М	B29K 2809/00	Use of rubber derived from conjugated dienes as mould material <del>(as such</del> <mark>C08L 9/00)</mark>
Μ	B29K 2809/06	<ul> <li>{SBR}, i.e. butadiene-styrene {rubbers (as such C08L 9/06)}</li> </ul>
М	B29K 2811/00	Use of rubber derived from chloroprene as mould material <del>(as such</del> <mark>C08L 11/00)</mark>
М	B29K 2819/00	Use of rubber not provided for in a single one of main groups <u>B29K 2807/00</u> - <u>B29K 2811/00, as mould material</u>
M M	B29K 2819/00 B29K 2821/00	
		- B29K 2811/00, as mould material
М	B29K 2821/00	<ul> <li>B29K 2811/00, as mould material</li> <li>Use of unspecified rubbers as mould material (as such C08L 21/00)</li> <li>Use of polyalkenes or derivatives thereof as mould material (as such</li> </ul>
M	B29K 2821/00 B29K 2823/00	<ul> <li><u>B29K 2811/00, as mould material</u></li> <li>Use of unspecified rubbers as mould material (as such C08L 21/00)</li> <li>Use of polyalkenes or derivatives thereof as mould material (as such C08L 23/00)</li> </ul>
M M	<b>B29K 2821/00</b> <b>B29K 2823/00</b> B29K 2823/04	<ul> <li>B29K 2811/00, as mould material</li> <li>Use of unspecified rubbers as mould material (as such C08L 21/00)</li> <li>Use of polyalkenes or derivatives thereof as mould material (as such C08L 23/00)</li> <li>Polymers of ethylene (as such C08L 23/04)</li> </ul>
<b>М</b> М М	B29K 2821/00 B29K 2823/00 B29K 2823/04 B29K 2823/06	<ul> <li>B29K 2811/00, as mould material</li> <li>Use of unspecified rubbers as mould material (as such C08L 21/00)</li> <li>Use of polyalkenes or derivatives thereof as mould material (as such C08L 23/00)</li> <li>Polymers of ethylene (as such C08L 23/04)</li> <li>PE, i.e. polyethylene (as such C08L 23/06)</li> <li>Use Copolymers of copolymers of ethylene as mould material (as such</li> </ul>
<b>М</b> М М	B29K 2821/00 B29K 2823/00 B29K 2823/04 B29K 2823/06 B29K 2823/08	<ul> <li>B29K 2811/00, as mould material</li> <li>Use of unspecified rubbers as mould material (as such C08L 21/00)</li> <li>Use of polyalkenes or derivatives thereof as mould material (as such C08L 23/00)</li> <li>Polymers of ethylene (as such C08L 23/04)</li> <li>PE, i.e. polyethylene (as such C08L 23/06)</li> <li>Use Copolymers of copolymers of ethylene as mould material (as such C08L 23/08; B29K 2823/16 takes precedence)</li> </ul>
<b>М</b> М М М	B29K 2821/00 B29K 2823/00 B29K 2823/04 B29K 2823/06 B29K 2823/08 B29K 2823/10	<ul> <li>B29K 2811/00, as mould material</li> <li>Use of unspecified rubbers as mould material (as such C08L 21/00)</li> <li>Use of polyalkenes or derivatives thereof as mould material (as such C08L 23/00)</li> <li>Polymers of ethylene (as such C08L 23/04)</li> <li>PE, i.e. polyethylene (as such C08L 23/06)</li> <li>Use Copolymers of copolymers of ethylene as mould material (as such C08L 23/06; B29K 2823/16 takes precedence)</li> <li>Polymers of propylene (as such C08L 23/10)</li> </ul>
<b>М</b> М М М	B29K 2821/00 B29K 2823/00 B29K 2823/04 B29K 2823/06 B29K 2823/08 B29K 2823/10 B29K 2823/12	<ul> <li>B29K 2811/00, as mould material</li> <li>Use of unspecified rubbers as mould material (as such C08L 21/00)</li> <li>Use of polyalkenes or derivatives thereof as mould material (as such C08L 23/00)</li> <li>Polymers of ethylene (as such C08L 23/04)</li> <li>PE, i.e. polyethylene (as such C08L 23/06)</li> <li>Use Copolymers of copolymers of ethylene as mould material (as such C08L 23/08; B29K 2823/16 takes precedence)</li> <li>Polymers of propylene (as such C08L 23/10)</li> <li>PP, i.e. polypropylene (as such C08L 23/12)</li> <li>Copolymers of polypropylene (as such C08L 23/14; B29K 2823/16 takes</li> </ul>
<b>М</b> М М М М	B29K 2821/00 B29K 2823/00 B29K 2823/04 B29K 2823/06 B29K 2823/08 B29K 2823/10 B29K 2823/12 B29K 2823/14	<ul> <li>B29K 2811/00, as mould material</li> <li>Use of unspecified rubbers as mould material (as such C08L 21/00)</li> <li>Use of polyalkenes or derivatives thereof as mould material (as such C08L 23/00)</li> <li>Polymers of ethylene (as such C08L 23/04)</li> <li>PE, i.e. polyethylene (as such C08L 23/06)</li> <li>Use Copolymers of copolymers of ethylene as mould material (as such C08L 23/08; B29K 2823/16 takes precedence)</li> <li>Polymers of propylene (as such C08L 23/10)</li> <li>PP, i.e. polypropylene (as such C08L 23/12)</li> <li>Copolymers of polypropylene (as such C08L 23/14; B29K 2823/16 takes precedence)</li> <li>EPM, i.e. ethylene-propylene copolymers; EPDM, i.e. ethylene-propylene-diene</li> </ul>
<b>М</b> М М М М	B29K 2821/00 B29K 2823/00 B29K 2823/04 B29K 2823/06 B29K 2823/08 B29K 2823/10 B29K 2823/12 B29K 2823/14 B29K 2823/16	<ul> <li>B29K 2811/00, as mould material</li> <li>Use of unspecified rubbers as mould material (as such C08L 21/00)</li> <li>Use of polyalkenes or derivatives thereof as mould material (as such C08L 23/00)</li> <li>Polymers of ethylene (as such C08L 23/04)</li> <li>PE, i.e. polyethylene (as such C08L 23/06)</li> <li>Use Copolymers of copolymers of ethylene as mould material (as such C08L 23/08; B29K 2823/16 takes precedence)</li> <li>Polymers of propylene (as such C08L 23/10)</li> <li>PP, i.e. polypropylene (as such C08L 23/12)</li> <li>Copolymers of polypropylene (as such C08L 23/14; B29K 2823/16 takes precedence)</li> <li>EPM, i.e. ethylene-propylene copolymers; EPDM, i.e. ethylene-propylene-diene copolymers; EPT, i.e. ethylene-propylene terpolymers (as such C08L 23/16)</li> <li>Polymers of hydrocarbons having four or more carbon atoms, e.g. polymers of</li> </ul>
<b>М</b> М М М М М	B29K 2821/00 B29K 2823/00 B29K 2823/04 B29K 2823/06 B29K 2823/08 B29K 2823/10 B29K 2823/12 B29K 2823/14 B29K 2823/16 B29K 2823/18	<ul> <li>B29K 2811/00, as mould material</li> <li>Use of unspecified rubbers as mould material (as such C08L 21/00)</li> <li>Use of polyalkenes or derivatives thereof as mould material (as such C08L 23/00)</li> <li>Polymers of ethylene (as such C08L 23/04)</li> <li>PE, i.e. polyethylene (as such C08L 23/06)</li> <li>Use Copolymers of copolymers of ethylene as mould material (as such C08L 23/08; B29K 2823/16 takes precedence)</li> <li>Polymers of propylene (as such C08L 23/10)</li> <li>PP, i.e. polypropylene (as such C08L 23/12)</li> <li>Copolymers of polypropylene (as such C08L 23/14; B29K 2823/16 takes precedence)</li> <li>EPM, i.e. ethylene-propylene copolymers; EPDM, i.e. ethylene-propylene-diene copolymers; EPT, i.e. ethylene-propylene terpolymers (as such C08L 23/16)</li> <li>Polymers of hydrocarbons having four or more carbon atoms, e.g. polymers of butylene (, e.g. PB, i.e. polybutylene) (as such C08L 23/18)</li> </ul>
<b>м</b> М М М М М М	B29K 2821/00 B29K 2823/00 B29K 2823/04 B29K 2823/06 B29K 2823/08 B29K 2823/10 B29K 2823/12 B29K 2823/14 B29K 2823/16 B29K 2823/18 B29K 2823/22	<ul> <li>B29K 2811/00, as mould material</li> <li>Use of unspecified rubbers as mould material (as such C08L 21/00)</li> <li>Use of polyalkenes or derivatives thereof as mould material (as such C08L 23/00)</li> <li>Polymers of ethylene (as such C08L 23/04)</li> <li>PE, i.e. polyethylene (as such C08L 23/06)</li> <li>Use Copolymers of copolymers of ethylene as mould material (as such C08L 23/06; B29K 2823/16 takes precedence)</li> <li>Polymers of propylene (as such C08L 23/10)</li> <li>PP, i.e. polypropylene (as such C08L 23/12)</li> <li>Copolymers of polypropylene (as such C08L 23/12)</li> <li>Copolymers of polypropylene (as such C08L 23/14; B29K 2823/16 takes precedence)</li> <li>EPM, i.e. ethylene-propylene copolymers; EPDM, i.e. ethylene-propylene-diene copolymers; EPT, i.e. ethylene-propylene terpolymers (as such C08L 23/16)</li> <li>Polymers of hydrocarbons having four or more carbon atoms, e.g. polymers of butylene (, e.g. PB, i.e. polybutylene) (as such C08L 23/18)</li> <li>Copolymers of isobutene, e.g. butyl rubber (as such C08L 23/22)</li> </ul>
м м м м м м м м	B29K 2821/00 B29K 2823/00 B29K 2823/04 B29K 2823/06 B29K 2823/08 B29K 2823/10 B29K 2823/12 B29K 2823/14 B29K 2823/16 B29K 2823/18 B29K 2823/22 B29K 2823/38	<ul> <li>B29K 2811/00, as mould material</li> <li>Use of unspecified rubbers as mould material (as such C08L 21/00)</li> <li>Use of polyalkenes or derivatives thereof as mould material (as such C08L 23/00)</li> <li>Polymers of ethylene (as such C08L 23/04)</li> <li>PE, i.e. polyethylene (as such C08L 23/06)</li> <li>Use Copolymers of copolymers of ethylene as mould material (as such C08L 23/08; B29K 2823/16 takes precedence)</li> <li>Polymers of propylene (as such C08L 23/10)</li> <li>PP, i.e. polypropylene (as such C08L 23/12)</li> <li>Copolymers of polypropylene (as such C08L 23/14; B29K 2823/16 takes precedence)</li> <li>EPM, i.e. ethylene-propylene copolymers; EPDM, i.e. ethylene-propylene-diene copolymers; EPT, i.e. ethylene-propylene terpolymers (as such C08L 23/16)</li> <li>Polymers of hydrocarbons having four or more carbon atoms, e.g. polymers of butylene (, e.g. PB, i.e. polybutylene) (as such C08L 23/18)</li> <li>Copolymers of isobutene, e.g. butyl rubber (as such C08L 23/22)</li> <li>Polymers of cycloalkenes, e.g. norbornene; or cyclopentene</li> <li>Use of polymers of vinyl-aromatic compounds or derivatives thereof as</li> </ul>

Μ	B29K 2825/08	<ul> <li>Copolymers of styrene, e.g. AS or SAN, i.e. acrylonitrile styrene (as such C08L 25/08; B29K 2855/02 takes precedence)</li> </ul>
М	B29K 2827/00	Use of polyvinylhalogenides or derivatives thereof as mould material <del>(as</del> <del>such C08L 27/00)</del>
М	B29K 2827/06	<ul> <li>PVC, i.e. polyvinylchloride (as such C08L 27/06)</li> </ul>
М	B29K 2827/08	<ul> <li>PVDC, i.e. polyvinylidene chloride (as such C08L 27/08)</li> </ul>
М	B29K 2827/12	<ul> <li>containing fluorine (as such C08L 27/12)</li> </ul>
М	B29K 2827/14	<ul> <li>PVF, i.e. polyvinyl fluoride (as such C08L 27/14)</li> </ul>
М	B29K 2827/16	<ul> <li>• PVDF, i.e. polyvinylidene fluoride (as such C08L 27/16)</li> </ul>
Μ	B29K 2827/18	<ul> <li>PTFE, i.e. polytetrafluorethene (as such C08L 27/18)PTFE, i.e. polytetrafluorethene, e.g. ePTFE, i.e. expanded polytetrafluorethene, Gore Tex (R)</li> </ul>
М	B29K 2829/00	Use of polyvinylalcohols, polyvinylethers, polyvinylaldehydes, polyvinylketones or polyvinylketals or derivatives thereof, as mould material <del>(as such C08L 29/00)</del>
Μ	B29K 2829/04	<ul> <li>PVOH, i.e. polyvinyl alcohol (as such C08L 29/04; B29K 2831/04 takes precedence)</li> </ul>
М	B29K 2831/00	Use of polyvinylesters or derivatives thereof as mould material <del>(as such</del> <del>C08L 31/00)</del>
Μ	B29K 2831/04	<ul> <li>Polymers of vinyl acetate, e.g. PVAc, i.e. polyvinyl acetate (as such C08L 31/04)</li> </ul>
М	B29K 2833/00	Use of polymers of unsaturated acids or derivatives thereof as mould material ( <del>as such C08L 33/00; B29K 2835/00</del> takes precedence)
М	B29K 2833/04	<ul> <li>Polymers of esters (as such C08L 33/04)</li> </ul>
Μ	B29K 2833/08	<ul> <li>Polymers of acrylic acid esters, e.g. PMA, i.e. polymethylacrylate (as such C08L 33/08)</li> </ul>
Μ	B29K 2833/12	<ul> <li>Polymers of methacrylic acid esters, e.g. PMMA, i.e. polymethylmethacrylate (as such C08L 33/12)</li> </ul>
М	B29K 2833/18	<ul> <li>Polymers of nitriles (as such C08L 33/18)</li> </ul>
М	B29K 2833/20	<ul> <li>PAN, i.e. polyacrylonitrile (as such C08L 33/20)</li> </ul>
Μ	B29K 2833/26	<ul> <li>Polymers of acrylamide or methacrylamide (as such C08L 33/26)</li> </ul>
Μ	B29K 2835/00	useUse of polymers of unsaturated polycarboxylic acids or derivatives thereof as mould material <del>(as such C08L 35/00)</del>
М	B29K 2839/00	Use of polymers with unsaturated aliphatic radicals and with a nitrogen or a heterocyclic ring containing nitrogen in a side chain or derivatives thereof, as mould material <del>(as such C08L 39/00)</del>
М	B29K 2839/06	<ul> <li>Polymers of N-vinyl-pyrrolidones (as such C08L 39/06)</li> </ul>
М	B29K 2839/08	<ul> <li>Polymers of vinyl-pyridine (as such C08L 39/08)</li> </ul>
М	B29K 2845/00	Use of polymers of unsaturated cyclic compounds having no unsaturated aliphatic groups in a side-chain, e.g. coumarone-indene resins or derivatives thereof, as mould material (as such C08L 45/00)
М	B29K 2849/00	Use of polyacetylene or cyanic ester resins, i.e. polymers having one or more carbon-tocarbon triple bonds or derivatives thereof, as mould material (as such C08L 49/00)

Μ	B29K 2855/00	Use of specific polymers obtained by polymerisation reactions only involving carbon-to-carbon unsaturated bonds, not provided for in a single one of main groups <u>B29K 2823/00</u> - <u>B29K 2849/00</u> , e.g. having a vinyl group, as mould material (as such C08L 55/00)
Μ	B29K 2855/02	ABS polymers, i.e. acrylonitrile-butadiene-styrene polymers (as such C08L 55/02)
Μ	B29K 2859/00	Use of polyacetals, e.g. POM, i.e. polyoxymethylene <mark>, or derivatives thereof</mark> as mould material; or derivatives thereof, as mould material (as such C08L 59/00)
Μ	B29K 2861/00	Use of condensation polymers of aldehydes or ketones or derivatives thereof, as mould material <del>(as such C08L 61/00)</del>
М	B29K 2861/04	<ul> <li>Phenoplasts (as such C08L 61/04)</li> </ul>
М	B29K 2861/20	<ul> <li>Aminoplasts (as such C08L 61/20)</li> </ul>
М	B29K 2863/00	Use of EP, i.e. epoxy resins or derivatives thereof as mould material <del>(as such C08L 63/00)</del>
М	B29K 2865/00	Use of polyphenylenes <mark>or polyxylylenes as mould material(<del>as such</del> <del>C08L 65/02)or polyxylylenes (as such C08L 65/04), as mould material</del></mark>
Μ	B29K 2867/00	Use of polyesters or derivatives thereof as mould material <del>(as such</del> <del>C08L 67/00)</del>
М	B29K 2867/003	<ul> <li>PET, i.e. poylethylenepolyethylene terephthalate</li> </ul>
М	B29K 2867/04	<ul> <li>Polyesters derived from hydroxycarboxylic acids (as such C08L 67/04)</li> </ul>
М	B29K 2867/046	<ul> <li>PLA, i.e. polylactic, polyactic acid or polylactide polyactide</li> </ul>
М	B29K 2867/06	<ul> <li>Unsaturated polyesters (as such C08L 67/06)</li> </ul>
М	B29K 2869/00	Use of PC, i.e. polycarbonates or derivatives thereof as mould material <del>(as such C08L 69/00)</del>
М	B29K 2871/00	<mark>{</mark> Use of polyethers, e.g. PEEK, i.e. polyether-etherketone or PEK, i.e. polyetherketone or derivatives thereof <mark>}</mark> , as mould material <del>(as such</del> <del>C08L 71/00)]</del>
М	B29K 2871/02	<ul> <li>Polyalkylene oxides, e.g. PEO, i.e. polyethylene oxide, or derivatives thereof (as such C08L 71/02)</li> </ul>
М	B29K 2871/12	<ul> <li>PPO, i.e. polyphenylene oxide (as such C08L 71/12); PPE, i.e. polyphenylene ether</li> </ul>
М	B29K 2873/00	<mark>use<i>U</i>se</mark> of other polymers having oxygen as the only hetero atom in the main chain, as mould material <del>(as such C08L 73/00)</del>
М	B29K 2875/00	Use of PU, i.e. polyureas or polyurethanes or derivatives thereof, as mould material <del>(as such C08L 75/00)</del>
М	B29K 2875/02	<ul> <li>Polyureas (as such C08L 75/02)</li> </ul>
М	B29K 2877/00	{Use of PA, i.e.} polyamides, e.g. polyesteramides or derivatives thereof, as mould material [ (as such C08L 77/00)]
Μ	B29K 2877/10	<ul> <li>Aromatic polyamides (Polyaramides)[polyaramides] or derivatives thereof (as such C08L 77/10)</li> </ul>
Μ	B29K 2879/00	{Use of polymers having nitrogen, with or without oxygen, or carbon only, in the main chain not provided for in groups <u>B29K 2861/00</u> - <u>B29K 2877/00</u> }, as mould material {(as such C08L 79/00)}
Μ	B29K 2879/08	<ul> <li>PI, i.e. polyimides or derivatives thereof (as such C08L 79/08)</li> </ul>

М	B29K 2879/085	<ul> <li>Thermoplastic polyimides, e.g. polyesterimides, polyetherimides [PEI], i.e. polyetherimides, or polyamideimides; Derivatives thereof</li> </ul>
Μ	B29K 2881/00	Use of polymers having sulfur, with or without nitrogen, oxygen, or carbon only, in the main chain, as mould material <del>(as such C08L 81/00)</del>
М	B29K 2881/04	<ul> <li>Polysulfides, e.g. PPS, i.e. polyphenylene sulfide or derivatives thereof (as such C08L 81/04)</li> </ul>
М	B29K 2881/06	<ul> <li>PSU, i.e. polysulfones; PES, i.e. polyethersulfones or derivatives thereof (as such C08L 81/06)</li> </ul>
Μ	B29K 2883/00	Use of polymers having silicon, with or without sulfur, nitrogen, oxygen, or carbon only, in the main chain, as mould material <del>(as such C08L 83/00)</del>
Μ	B29K 2883/005	<ul> <li>Liquid Silicone Rubbers [LSR] LSR, i.e. liquid silicone rubbers, or derivatives thereof</li> </ul>
М	B29K 2885/00	Use of polymers having other elements than silicon, sulfur, nitrogen, oxygen, and carbon in the main chain, as mould material <del>(as such</del> <del>C08L 85/00)</del>
М	B29K 2889/00	Use of proteins, e.g. casein <del>, or</del> gelatine or derivatives thereof, as mould material <del>(as such C08L 89/00)</del>
М	B29K 2891/00	Use of waxes as mould material <del>(as such C08L 91/06)</del>
М	B29K 2893/00	Use of natural resins (as such C08L 93/00), e.g. shellac (as such C08L 93/02)Use of natural resins, e.g. shellac, or derivatives thereof, as mould material (B29K 2801/00, B29K 2803/00, B29K 2805/00, B29K 2807/00 and , B29K 2889/00 take precedence)
М	B29K 2895/00	Use of bituminous materials, as mould material <del>(as such C08L 95/00)</del>
М	B29K 2901/00	Use of unspecified macromolecular compounds as mould material ( <del>unspecified rubbers B29K 2821/00; as such C08L 101/00<i>use of unspecified</i> rubbers <u>B29K 2821/00</u>)</del>
U	B29K 2905/00	Use of metals, their alloys or their compounds, as mould material
		<u>NOTE</u> Alloys or compounds of specified metals are indexed with the same code as the specified metals.
U	B29K 2905/08	Transition metals
М	B29K 2905/12	• • i <del>ron</del> /ron
М	B29K 2905/14	<ul> <li>Noble metals, e.g. Silversilver, Gold, Platinumgold or platinum</li> </ul>
U	B29K 2911/00	Use of natural products or their composites, not provided for in groups
	B29K 291 1/00	$\underline{\text{B29K 2801/00}} - \underline{\text{B29K 2809/00}}, \text{ as mould material}$
М	B29K 2911/06	
M M		B29K 2801/00 - B29K 2809/00, as mould material
	B29K 2911/06	B29K 2801/00 - B29K 2809/00, as mould material • Bone, horn,- or ivory
М	B29K 2911/06 B29K 2911/10	<ul> <li>B29K 2801/00 - B29K 2809/00, as mould material</li> <li>Bone, horn, or ivory</li> <li>Natural fibres, e.g. wool, or cotton</li> </ul>
M M	B29K 2911/06 B29K 2911/10 B29K 2911/14	<ul> <li>B29K 2801/00 - B29K 2809/00, as mould material</li> <li>Bone, horn, <u>or</u>ivory</li> <li>Natural fibres, e.g. wool, <u>or</u> cotton</li> <li>Wood, e.g. woodboard, <u>or</u> fibreboard</li> </ul>
М М <b>М</b>	B29K 2911/06 B29K 2911/10 B29K 2911/14 <b>B29K 2913/00</b>	<ul> <li>B29K 2801/00 - B29K 2809/00, as mould material</li> <li>Bone, horn,- or ivory</li> <li>Natural fibres, e.g. wool,- or cotton</li> <li>Wood, e.g. woodboard,- or fibreboard</li> <li>Textile Use of textile products,- or fabrics as mould materials</li> <li>Properties of moulding materials, reinforcements, fillers, preformed parts or</li> </ul>
M M U	B29K 2911/06 B29K 2911/10 B29K 2911/14 B29K 2913/00 B29K 2995/00	<ul> <li>B29K 2801/00 - B29K 2809/00, as mould material</li> <li>Bone, horn, or ivory</li> <li>Natural fibres, e.g. wool, or cotton</li> <li>Wood, e.g. woodboard, or fibreboard</li> <li>Textile Use of textile products, or fabrics as mould materials</li> <li>Properties of moulding materials, reinforcements, fillers, preformed parts or moulds</li> </ul>

U	B29K 2995/0012	<ul> <li>having particular thermal properties</li> </ul>
М	B29K 2995/0016	<ul> <li>Non-inflammable, flammable or resistant to heat</li> </ul>
М	B29K 2995/0018	<ul> <li>having particular optical properties, e.g. fluorescent, or phosphorescent</li> </ul>
М	B29K 2995/0022	<ul> <li>Bright, glossy, <u>or</u>shiny surface</li> </ul>
U	B29K 2995/0037	Other properties
Е	B29K 2995/0049	Heat shrinkable
		WARNING Group <u>B29K 2995/0049</u> is incomplete pending reclassification of documents from group <u>B29K 2105/02</u> . Groups <u>B29K 2995/0049</u> and <u>B29K 2105/02</u> should be considered in order to perform a complete search.
Μ	B29K 2995/0056	<ul> <li>Biocompatible, e.g. biopolymers, bioelastomers or bioelastomers(bio- degradable B29K 2995/006)</li> </ul>
М	B29K 2995/0068	<ul> <li>Permeability to liquids, adsorption; Adsorption</li> </ul>
М	B29K 2995/0089	<ul> <li>Impact strength, or toughness</li> </ul>
М	B29K 2995/0098	<ul> <li>Peel strength, peelable; Peelability</li> </ul>
Pro	ject: RP0254 (G05D	
Μ	G05D 1/00	Control of position, course or altitude of land, water, air, or space vehicles, e.g. automatic pilot (steering applicable only to other than landborne vehicles, e.g. three-dimensional steering applicable to both aircraft and submarines B60K; construction or disposition of steering means on land vehicles B62, on waterborne vessels B63; manual or automatic control of aircraft, e.g. using automatic pilot or radiated signal B64C; radio navigation systems or analogous systems using other waves <u>G01S</u> )
М	G05D 7/00	Control of flow (level control <u>G05D 9/00</u> -; ratio control <u>G05D 11/00</u> ; of media to the human body A61M 5/168 ; weighing apparatus <u>G01G</u> )
С	G05D 16/00	Control of fluid pressure <del>(control of pressure in electric discharge tubes or lamps H01J, e.g. H01J 7/14 ; control of pressure in electric incandescent lamps H01K 1/52)</del>
		NOTE
		{ <u>Note</u> : In this group, multi-aspect classification is applied, so that subject matter characterised by aspects covered by more than one of its subgroups, which is considered to represent information of interest for search, should be classified in each of those subgroups.}
		WARNING Group <u>G05D 16/00</u> is impacted by reclassification into groups <u>G05D 16/024</u> and <u>G05D 16/028</u> . Groups <u>G05D 16/00</u> , <u>G05D 16/024</u> , and <u>G05D 16/028</u> should be considered in order to perform a complete search.
Μ	G05D 16/02	<ul> <li>Modifications to reduce the effects of instability, e.g. due to vibrations, friction, abnormal temperature, overloading, unbalance (vibration dampers F16F 7/00 vibration-dampers F16F 7/00)</li> </ul>
Ν	G05D 16/024	<ul> <li>{Controlling the inlet pressure, e.g. back-pressure regulator}</li> </ul>
		WARNING

Ν	G05D 16/028	<ul> <li>{Controlling a pressure difference (control of flow <u>G05D 7/00</u>)}</li> <li><u>WARNING</u></li> <li>Group <u>G05D 16/028</u> is incomplete pending reclassification of documents from group <u>G05D 16/00</u>.</li> <li>Groups <u>G05D 16/00</u> and <u>G05D 16/028</u> should be considered in order to perform a complete search.</li> </ul>
С	G05D 16/04	without auxiliary power
		<u>WARNING</u> Group <u>G05D 16/04</u> is impacted by reclassification into groups <u>G05D 16/0402</u> and <u>G05D 16/0404</u> . Groups <u>G05D 16/04, G05D 16/0402</u> , and <u>G05D 16/0404</u> should be considered in order to perform a complete search.
Ν	G05D 16/0402	• {with two or more controllers mounted in series}
		<u>WARNING</u> Group <u>G05D 16/0402</u> is incomplete pending reclassification of documents from groups <u>G05D 16/04</u> and <u>G05D 16/10</u> . Groups <u>G05D 16/04</u> , <u>G05D 16/10</u> , and <u>G05D 16/0402</u> should be considered in order to perform a complete search.
Ν	G05D 16/0404	<ul> <li>{with two or more controllers mounted in parallel} <u>WARNING</u> Group <u>G05D 16/0404</u> is incomplete pending reclassification of documents from groups <u>G05D 16/04</u> and <u>G05D 16/10</u>. Groups <u>G05D 16/04</u>, <u>G05D 16/10</u> and <u>G05D 16/0404</u> should be considered in order to perform a complete search.</li> </ul>
U	G05D 16/06	<ul> <li>the sensing element being a flexible membrane, yielding to pressure, e.g. diaphragm, bellows, capsule</li> </ul>
D	G05D 16/0602	<ul> <li> <ul> <li></li></ul></li></ul>
D	G05D 16/0605	<ul> <li> <ul> <li></li></ul></li></ul>
С	G05D 16/10	<ul> <li>the sensing element being a piston or plunger</li> </ul>
		<u>WARNING</u> Group <u>G05D 16/10</u> is impacted by reclassification into groups <u>G05D 16/101</u> , <u>G05D 16/107</u> , <u>G05D 16/109</u> , <u>G05D 16/0402</u> , and <u>G05D 16/0404</u> . All groups listed in this Warning should be considered in order to perform a complete search.
Ν	G05D 16/101	<ul> <li>• {the controller being arranged as a multiple-way valve}</li> </ul>
		<u>WARNING</u> Group <u>G05D 16/101</u> is incomplete pending reclassification of documents from groups <u>G05D 16/10</u> and <u>G05D 16/103</u> . Groups <u>G05D 16/10</u> , <u>G05D 16/103</u> and <u>G05D 16/101</u> should be considered in order to perform a complete search.
С	G05D 16/103	<ul> <li>• • {with the sensing element placed within between the flow-path}inlet and outlet (multiple-way valve G05D 16/101)}</li> </ul>
		<u>WARNING</u> Group <u>G05D 16/103</u> is impacted by reclassification into group G05D 16/101.

	ject: RP0254 (G05D) iD 16/103 (continued)	CPC - 2019.01
		Groups <u>G05D 16/103</u> and <u>G05D 16/101</u> should be considered in order to perform a complete search.
М	G05D 16/106	<ul> <li>• • {using slidingSleeve-like sensing elements}; Sensing elements surrounded by the flow path}</li> </ul>
Ν	G05D 16/107	<ul> <li>• • {with a spring-loaded piston in combination with a spring-loaded slideable obturator that move together over range of motion during normal operation}</li> <li><u>WARNING</u></li> <li>Group <u>G05D 16/107</u> is incomplete pending reclassification of documents from group <u>G05D 16/10</u>.</li> <li>Groups <u>G05D 16/10</u> and <u>G05D 16/107</u> should be considered in order to perform a complete search.</li> </ul>
Ν	G05D 16/109	<ul> <li>• • {with two or more pistons acting as a single pressure controller that move together over range of motion during normal operations (controllers mounted in series <u>G05D 16/0402</u>, controller mounted in parallel <u>G05D 16/0404</u>)}</li> <li><u>WARNING</u></li> <li>Group <u>G05D 16/109</u> is incomplete pending reclassification of documents from group <u>G05D 16/10</u>.</li> <li>Groups <u>G05D 16/10</u> and <u>G05D 16/109</u> should be considered in order to perform a complete search.</li> </ul>
U	G05D 16/14	with auxiliary non-electric power
U	G05D 16/16	derived from the controlled fluid
М	G05D 16/163	• • • {using one or several membranes membranes within the main valve}
М	G05D 16/166	• • • {using one or several pistons pistons within the main valve}
С	G05D 16/18	• derived from an external source <u>WARNING</u> <u>Group G05D 16/18</u> is impacted by reclassification into group <u>G05D 16/187</u> .
		Groups <u>G05D 16/18</u> and <u>G05D 16/187</u> should be considered in order to perform a complete search.
М	G05D 16/185	<ul> <li>• • {using one or several membranes membranes within the main valve}</li> </ul>
Ν	G05D 16/187	<ul> <li>• • {using pistons within the main valve}</li> </ul>
		<u>WARNING</u> Group <u>G05D 16/187</u> is incomplete pending reclassification of documents from group <u>G05D 16/18</u> . Groups <u>G05D 16/18</u> and <u>G05D 16/187</u> should be considered in order to perform a complete search.
U	G05D 16/20	<ul> <li>characterised by the use of electric means</li> </ul>
М	G05D 16/2006	<ul> <li>{with direct action of electric energy on controlling means (G05D 16/2093) takes precedence combination of electric and non-electric auxiliary G05D 16/2093)}</li> </ul>
С	G05D 16/2013	<ul> <li>• • {using throttling means as controlling means}</li> </ul>
		<u>WARNING</u> Group <u>G05D 16/2013</u> is impacted by reclassification into groups <u>G05D 16/2022</u> and <u>G05D 16/2024</u> . Groups <u>G05D 16/2013, G05D 16/2022, and <u>G05D 16/2024</u> should be considered in order to perform a complete search.</u>
U	G05D 16/202	· · · {actuated by an electric motor}

Ν	G05D 16/2022	<ul> <li>• • • {actuated by a proportional solenoid (throttling means <u>G05D 16/2024</u>)}</li> <li><u>WARNING</u></li> </ul>
		Group <u>G05D 16/2022</u> is incomplete pending reclassification of documents from group <u>G05D 16/2013</u> . Groups <u>G05D 16/2013</u> and <u>G05D 16/2022</u> should be considered in order
		to perform a complete search.
Ν	G05D 16/2024	• • • {the throttling means being a multiple-way valve}
		<u>WARNING</u> Group <u>G05D 16/2024</u> is incomplete pending reclassification of documents from group <u>G05D 16/2013</u> . Groups <u>G05D 16/2013</u> and <u>G05D 16/2024</u> should be considered in order to perform a complete search.
М	G05D 16/2066	<ul> <li>• • {using controlcontrolling means acting on the pressure source}</li> </ul>
М	G05D 16/2086	<ul> <li>{without direct action of electric energy on the controlling means (G05D 16/2093 takes precedence combination of electric and non-electric auxiliary G05D 16/2093)}</li> </ul>
С	G05D 16/2093	<ul> <li>• {with combination of electric and non-electric auxiliary power}</li> </ul>
		WARNING
		Group <u>G05D 16/2093</u> is impacted by reclassification into groups <u>G05D 16/2095</u> and <u>G05D 16/2097</u> .
		Groups <u>G05D 16/2093, G05D 16/2095</u> , and <u>G05D 16/2097</u> should be considered in order to perform a complete search.
Ν	G05D 16/2095	• • {using membranes within the main valve}
		<u>WARNING</u> Group <u>G05D 16/2095</u> is incomplete pending reclassification of documents
		from group <u>G05D 16/2093</u> .
		Groups <u>G05D 16/2093</u> and <u>G05D 16/2095</u> should be considered in order to perform a complete search.
Ν	G05D 16/2097	• • {using pistons within the main valve}
		WARNING
		Group <u>G05D 16/2097</u> is incomplete pending reclassification of documents
		from group <u>G05D 16/2093</u> . Groups <u>G05D 16/2093</u> and <u>G05D 16/2097</u> should be considered in order to
		perform a complete search.
М	G05D 23/00	Control of temperature (automatic switching arrangements for electric heating apparatus <u>H05B 1/02 ; controlling induction heating H05B 6/06 ;</u> regulating temperature of anode of X-ray tube H05G 1/36)
		NOTE
		Within groups $G05D 23/01$ - $G05D 23/32$ , an invention is classified in the last appropriate place in the absence of an indication of the contrary
Pro	ject: RP0254 (H05	В)

U	H05B 1/00	Details of electric heating devices
Μ	H05B 1/02	<ul> <li>Automatic switching arrangements specially adapted to apparatus {; {Control of heating devices} (control of temperature in general G05D 23/00; thermally-</li> </ul>
		actuated switches H01H 37/00)

#### Project: RP0317 (H04N)

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M H04N
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PICTORIAL COMMUNICATION, e.g. TELEVISION (measuring, testing G01; systems for autographic writing, e.g. writing telegraphy, which involve following an outline {G08C 21/00}; information storage based on relative movement between record carrier and transducer G11B; coding, decoding or code conversion, in general H03M; broadcast distribution or the recording of use made thereof H04H)

#### NOTES

- 1. This subclass covers :
  - transmission of pictures or their transient or permanent reproduction either locally or remotely {and the corresponding electronic image capture and reproduction process employing image representative electric signals}, by methods involving both of {or at least one of} the following steps:
    - a. the {electronic acquisition or} scanning of a picture {or scene}, i.e. resolving the whole picture-containing area into individual pictureelements and the derivation of picture-representative electric signals related thereto, simultaneously or in sequence {, e.g. by reading an electronic solid-state image sensor [SSIS] pickup device, e.g. CCD or CMOS image sensor, as electronic image sensor converting optical image information into said electrical signals};
    - b. the reproduction of the whole picture-containing area {or scene} by the reproduction of individual picture -elements into which the picture is resolved by means of picture -representative electric signals derived therefrom, simultaneously or in sequence;
  - in group <u>H04N 1/00</u>, systems for the transmission or the reproduction of arbitrarily composed pictures or patterns in which the local light variations composing a picture are not subject to variation with time, e.g. documents, maps, charts, photographs other than cinematograph films;
  - circuits specially designed for dealing with pictorial communication signals, e.g. television signals, as distinct from merely signals of a particular frequency range.
- 2. This subclass does not cover :
  - circuits or other parts of systems which form the subject of other subclasses, which are covered by the corresponding subclasses, e.g. <u>H03C</u>, <u>H03F</u>, <u>H03J</u>, <u>H04B</u>, <u>H04H</u>;
  - systems in which legible alphanumeric or like character forms are analysed according to step (a) of Note (1) to derive an electric signal from which the character is recognised by comparison with stored information, which are covered by subclass <u>G06K</u>;
  - systems for the direct photographic copying of an original picture in which an electric signal representative of the picture is derived according to the said step (a) and employed to modify the operation of the system, e.g. to control exposure, which are covered by class <u>G03</u>;
  - systems for the reproduction according to step (b) of Note (1) of pictures comprising alphanumeric or like character forms but involving the production of the equivalent of a signal which would be derived according to the above -mentioned step (a), e.g. by cams, punched card or tape, coded control signal, or other means, which are covered by the subclass for the application, e.g. <u>G01D</u>, <u>G06T</u>, <u>H04L</u>;
  - systems for the reproduction according to the above-mentioned step (b) of pictures comprising alphanumeric or like character forms and involving the generation according to the above -mentioned step (a) of picture-representative electric signals from a pre-arranged assembly of such characters, or records thereof, forming an integral part of the systems, which are covered by the subclass for the application, e.g. <u>B41B</u>, <u>G06K</u>, subject to those applications which are covered by this subclass;

- printing, duplication or marking processes, or materials or processes therefor, which are covered by the relevant subclasses, e.g. <u>B41C</u>, <u>B41J</u>, <u>B41M</u>, <u>G03C</u>, <u>G03F</u>, <u>G03G</u>;
- {apparatus or methods for taking photographs using light sensitive film for image capture, apparatus/methods for printing, for projecting or viewing images using film stock, photographic film or slides by optical means, e.g. mounting of optical elements, flashes, and their related controls, e.g. exposure, focus, (opto-)mechanical motion blur (anti-shake), cooling, beam shaping;}
- {aspects of apparatus or methods for taking photographs using an electronic image sensor [EIS] for image capture, insofar as they correspond to those of said apparatus methods for taking photographs using light sensitive film, i.e. insofar as not peculiar to the presence of the EIS, e.g. mounting of optical elements or flashes not peculiar to the presence of the presence of the EIS, and their related controls insofar as they are not peculiar to the presence or use of the EIS, e.g. exposure, focus, (opto-)mechanical motion blur (anti-shake);}
- {aspects of apparatus or methods for projecting or viewing images using an electronic spatial light modulator [ESLM], insofar as they correspond to those of said apparatus/ methods for projecting or viewing images using film stock, photographic film or slides, i.e. insofar as not peculiar to the presence of the ESLM, e.g. mounting of optical elements not peculiar to the presence of the ESLM, and their related controls not peculiar to the presence of the ESLM, e.g. cooling, beam shaping, optical keystone correction;}
- {(opto-)mechanical image enhancement in printers or projectors, e.g. keystone correction;}
- {optical viewfinders;}
- {remote control of cameras and projectors insofar not peculiar to the EIS or ESLM, e.g. not affecting their operation, or being based on a generated image signal;}
- { optical aspects of camera modules using electronic image sensors and related constructional details (optical elements or arrangements associated with solid state imager structures <u>H01L 27/14625</u>); }
- {constructional aspects of projectors, e.g. cooling, beam shaping, light integrating means not peculiar to the ESLM;}
- 3. In this subclass, the following expression is used with the meaning indicated:
  - "television systems" means those systems for the {electronic generation,} transmission and reproduction of arbitrarily composed pictures in which the local light variations composing a picture may change with time, e.g. natural "live" scenes, {electronic} recordings of such scenes such as cinematograph films.

4. {In this subclass, as in subclass  $\underline{GO3B}$ , the following terms are used with the meaning indicated:

- "camera": a device capturing image information represented by light patterns reflected or emitted from objects, and exposing a light sensitive film or a main electronic image sensor during a timed exposure, usually through a photographic lens, and producing an image on a light sensitive film or an electrical image information signal respectively;
- "projector": a device displaying image information by projection of light patterns, usually through an optical lens, wherein the light patterns are generated by illuminating an image, e.g. film or slide, or by converting an electric image signal into an optical signal using an electronic spatial light modulator;
- "electronic image sensor [EIS]": optoelectronic transducer, converting optical image information into an electrical signal susceptible of being processed, stored, transmitted or displayed;
- "additional sensor": a sensor, other than the main electronic image sensor, used for controlling a camera;

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 "electronic spatial light modulator [ESLM]": optoelectronic transducer converting electric signals representing image information into optical image information.

### WARNINGS

}

1. The following IPC groups are not in the CPC scheme. Subject matter for these IPC groups is classified in the following CPC groups:

H04N 5/761	covered by	<u>H04N 5/782</u>
H04N 5/7613	covered by	<u>H04N 5/782</u>
H04N 5/7617	covered by	<u>H04N 5/782</u>
H04N 5/922	covered by	<u>H04N 5/92</u>
H04N 5/924	covered by	<u>H04N 5/92</u>
H04N 9/815	covered by	<u>H04N 9/81</u>
H04N 11/24	covered by	H04N 11/002
H04N 15/00	covered by	H04N 13/00

2. In this subclass non-limiting references (in the sense of paragraph 39 of the Guide to the IPC) may still be displayed in the scheme.

M H04N 1/00 Scanning, transmission or reproduction of documents or the like, e.g. facsimile transmission; Details thereof <del>{(recording arrangements for</del> measuring instruments G01D; sensing record carriers G06K 7/00; character or pattern recognition G06K 9/00; mosaïc printer telegraph systems H04L 21/00)}

- H04N 1/024 Details of scanning heads {; Means for illuminating the original (circuit details thereof H04N 1/40)}
- U H04N 1/028 • for picture information pick-up
  - H04N 1/0281 • {with means for collecting light from a line or an area of the original and for guiding it to only one or a relatively low number of picture element detectors (light-guides per se G02B 6/00)}
  - H04N 1/03 • with photodetectors arranged in a substantially linear array (scanning of linear arrays H04N 1/19)
- M H04N 1/04
   Scanning arrangements, {, i.e. arrangements for the displacement of active reading or reproducing elements relative to the original or reproducing medium, or vice versa}(H04N 1/387 takes precedence; {scanning by varying the direction of light in general G02B 26/10})
- M H04N 1/06 • using cylindrical picture-bearing surfaces {, i.e. scanning a main-scanning line substantially perpendicular to the axis and lying in a curved cylindrical surface (for feeding a sheet in the subscanning direction by rotation about its axis only H04N 1/12)}
- M H04N 1/10 • using flat picture-bearing surfaces {(<u>H04N 1/113</u>, <u>H04N 1/195</u> take precedence; arrangements for the main-scanning H04N 1/12</u>)}
  - H04N 1/19 • using multi-element arrays
  - H04N 1/191 ••• the array comprising a one-dimensional array {, or a combination of onedimensional arrays, or a substantially one-dimensional array, e.g. an array of staggered elements}
- M H04N 1/192 • • Simultaneously {or substantially simultaneously} scanning picture elements on one main scanning line <del>{(details of the sub-scanning H04N 1/10, H04N 1/12)}</del>
- M H04N 1/21 Intermediate information storage (<u>H04N 1/387</u>, <u>H04N 1/41</u> take precedence {; {for control between transmitter and receiver or between image input and image output device <u>H04N 1/32358</u>}; information storage in general G11; {indexing, editing G11B 27/00})

Μ	H04N 1/23	<ul> <li>Reproducing arrangements (details of scanning heads H04N 1/024; scanning arrangements therefor H04N 1/04 (perforating or marking objects by electrical discharge B26F 1/28))</li> </ul>	
U	H04N 1/32	<ul> <li>Circuits or arrangements for control or supervision between transmitter and receiver {or between image input and image output device (<u>H04N 1/38</u>, <u>H04N 1/387</u> take precedence)}</li> </ul>	
Μ	H04N 1/34	<ul> <li>for coin-freed systems {; payPay systems (telephonic metering H04M 15/00, coin-freed or like apparatus per se G07F)}</li> </ul>	
Μ	H04N 1/387	<ul> <li>Composing, repositioning or otherwise {geometrically} modifying originals (photoelectronic composing of characters B41B 19/00; {image data processing or generation, in general G06T})</li> </ul>	
U	H04N 1/40	<ul> <li>Picture signal circuits (<u>H04N 1/387</u> takes precedence)</li> </ul>	
Μ	H04N 1/403	<ul> <li>Discrimination between the two tones in the picture signal of a two-tone original (shaping pulses by limiting or thresholding, in general H03K 5/08)</li> </ul>	
М	H04N 1/46	<ul> <li>Colour picture communication systems {(colorimetry G01J 3/46)}</li> </ul>	
М	H04N 3/00	Scanning details of television systems <mark>; Combination thereof with generation of supply voltages</mark>	
Μ	H04N 3/02	<ul> <li>by optical-mechanical means only (<u>H04N 3/36</u> takes precedence; optical scanning systems in general G02B 26/10)</li> </ul>	
Μ	H04N 3/10	<ul> <li>by means not exclusively optical-mechanical (<u>H04N 3/36</u> takes precedence; electro-, magneto- or acousto-optical modulation or deflection of light beams G02F 1/00)</li> </ul>	
Μ	H04N 3/16	<ul> <li>by deflecting electron beam in cathode-ray tube {also-, e.g. scanning corrections}(producing saw-tooth wave forms H03K 4/00 {for scanning and focusing devices H01J; cathode ray oscillographs G01R 13/20})</li> </ul>	
U	H04N 3/18	• • • Generation of supply voltages, in combination with electron beam deflecting	
М	H04N 3/185		
Μ	H04N 3/26	<ul> <li>Modifications of scanning arrangements to improve focusing (focusing circuits in general H01J)</li> </ul>	
Μ	H04N 3/27	<ul> <li>Circuits special to multi-standard receivers (circuitry of multi-standard receivers in general H04N 5/46)</li> </ul>	
М	H04N 5/00	Details of television systems (scanning details or combination thereof with generation of supply voltages <u>H04N 3/00; specially adapted for colour</u> television H04N 9/00; {servers specially adapted for the distribution of content H04N 21/20; client devices specially adapted for the reception of or interaction with content H04N 21/40})	
		<u>NOTE</u> Groups H04N 5/341 - H04N 5/378 are based on IPC2012.01	
Μ	H04N 5/04	<ul> <li>Synchronising (for television systems using pulse code modulation H04N 7/24<u>H04N 7/56; in general H03L 7/00</u>)</li> </ul>	
U	H04N 5/14	<ul> <li>Picture signal circuitry for video frequency region (<u>H04N 5/222</u> takes precedence)</li> </ul>	
Μ	H04N 5/21	<ul> <li>Circuitry for suppressing or minimising disturbance, e.g. moiré, halo, {even if the automatic gain control is involved} or halo(suppression of noise in television recording H04N 5/911)</li> </ul>	
Μ	H04N 5/217	<ul> <li>television recording H04N 5/911)</li> <li>in picture signal generation {in cameras comprising an electronic image sensor, e.g. <i>in</i> digital cameras, TV cameras, video cameras, camcorders, webcams, <i>or</i> to be embedded in other devices, e.g. in mobile phones, computers or vehicles (noise reduction or noise suppression involving solid-state image sensors H04N 5/357)}</li> </ul>	

U	H04N 5/222	<ul> <li>Studio circuitry; Studio devices; Studio equipment {; Cameras comprising an electronic image sensor, e.g. digital cameras, video cameras, TV cameras, video cameras, camcorders, webcams, camera modules for embedding in other devices, e.g. mobile phones, computers or vehicles}</li> </ul>
U	H04N 5/262	<ul> <li>Studio circuits, e.g. for mixing, switching-over, change of character of image, other special effects {; Cameras specially adapted for the electronic generation of special effects}</li> </ul>
М	H04N 5/268	<ul> <li>Signal distribution or switching (for broadcasting H04H 20/00)</li> </ul>
Μ	H04N 5/30	<ul> <li>Transforming light or analogous information into electric information (<u>H04N 5/222</u> takes precedence; scanning details <u>H04N 3/00; light transforming</u> elements H01J, H01L)</li> </ul>
Μ	H04N 5/335	<ul> <li>using solid-state image sensors [SSIS] (<u>H04N 5/32</u>, <u>H04N 5/33</u> take precedence)</li> </ul>
		NOTE
		In this group, the first place priority rule is applied, i.e. at each hierarchical level, in the absence of an indication to the contrary, classification is made in the first appropriate place.
		Groups H04N 5/341 - H04N 5/378 are based on IPC2012.01
Μ	H04N 5/351	<ul> <li>Control of the SSIS depending on the scene, e.g. brightness or motion in the scene {(circuitry for evaluating the brightness variations of the object H04N 5/2351)}</li> </ul>
U	H04N 5/369	<ul> <li>SSIS architecture; Circuitry associated therewith</li> </ul>
		WARNING
		Group H04N 5/369 is impacted by reclassification into group H04N 5/379. Groups H04N 5/369 and H04N 5/379 should be considered in order to perform a complete search.
Μ	H04N 5/374	<ul> <li>Addressed sensors, e.g. MOS or CMOS sensors</li></ul>
U	H04N 5/38	Transmitter circuitry ( <u>H04N 5/14</u> takes precedence)
М	H04N 5/40	<ul> <li>Modulation circuits {(in general H03C 1/00, H03C 3/00, H03C 5/00)}</li> </ul>
U	H04N 5/44	<ul> <li>Receiver circuitry (<u>H04N 5/14</u> takes precedence)</li> </ul>
Μ	H04N 5/455	<ul> <li>Demodulation-circuits (demodulation in general H03D)</li> </ul>
М	H04N 5/50	<ul> <li>Tuning indicators; Automatic tuning control (tuning control in general H03J)</li> </ul>
Μ	H04N 5/52	<ul> <li>Automatic gain control {(in general H03G)}</li> </ul>
Μ	H04N 5/63	<ul> <li>Generation or supply of power specially adapted for television receivers (generation of supply voltages in combination with electron beam deflecting H04N 3/18; regulating of voltage or current in general G05F; transformers H01F; supplying or distributing electric power, in general H02J; static converters H02M)</li> </ul>
Μ	H04N 5/64	<ul> <li>Constructional details of receivers, e.g. cabinets, or dust covers (furniture aspects A47B, e.g. {of television cabinets} A47B 81/06)</li> </ul>
Μ	H04N 5/66	<ul> <li>Transforming electric information into light information (scanning details <u>H04N 3/00</u> {; electro- or magneto optic devices G02F 1/00; CRT's H01J})</li> </ul>
Μ	H04N 5/68	<ul> <li>Circuit details for cathode-ray display tubes {(deviation circuits <u>H04N 3/16</u>, <u>H03K 4/00</u>)}</li> </ul>
Μ	H04N 5/72	<ul> <li>Modifying the appearance of television pictures by optical filters or diffusing screens (optical filters or diffusing screens per se G02B 5/00)</li> </ul>

М	H04N 5/74	<ul> <li>Projection arrangements for image reproduction, e.g. using eidophor (optical systems in general G02B)</li> </ul>
		WARNING H04N 5/74 and subgroups are no longer used for the classification of new documents as from October 1, 2008. The backlog is being continuously reclassified to subgroups of H04N 9/31
Μ	H04N 5/76	<ul> <li>Television signal recording (diagnosis, testing or measuring for television signal recorders H04N 17/06; recording in connection with measuring G01D; information storage (in which the television signal is not involved, driving, starting, stopping, head switching, editing, indexing) in general G11, e.g. G11B)</li> </ul>
Μ	H04N 5/765	<ul> <li>Interface circuits between an apparatus for recording and another apparatus (associated working of recording or reproducing apparatus with a television camera or receiver in which the television signal is not significantly involved G11B 31/00)</li> </ul>
U	H04N 5/84	<ul> <li>using optical recording (<u>H04N 5/80</u>, <u>H04N 5/89</u>, <u>H04N 5/91</u> take precedence)</li> </ul>
Μ	H04N 5/87	<ul> <li>Producing a motion picture film from a television signal {(scanning of motion picture films for television signal generation H04N 3/36; television signal generation by scanning a motion picture film H04N 5/253 H04N 9/11; {standard conversion therefor H04N 7/0112})}</li> </ul>
Μ	H04N 5/907	<ul> <li>using static stores, e.g. storage tubes, or semiconductor memories (<u>H04N 5/91</u> takes precedence; based on relative movement between record carrier and transducer H04N 5/78 - H04N 5/903)</li> </ul>
М	H04N 5/91	<ul> <li>Television signal processing therefor (of colour signals H04N 9/79)</li> </ul>
Μ	H04N 5/913	<ul> <li>for scrambling {; for copy protection} (scrambling of a television signal for transmission H04N 7/167)</li> </ul>
Μ	H04N 5/917	<ul> <li>for bandwidth reduction (bandwidth reduction H04N 7/12; using pulse code modulation H04N 7/24)</li> </ul>
Μ	H04N 5/92	<ul> <li>Transformation of the television signal for recording, e.g. modulation, frequency changing; Inverse transformation for playback</li></ul>
U	H04N 5/93	
U	H04N 5/94	
Μ	H04N 5/945	<ul> <li>for signals recorded by pulse code modulation (error detection or correction of digital signals for recording in general G11B 20/18)</li> </ul>
U	H04N 7/00	Television systems (details <u>H04N 3/00, H04N 5/00;</u> methods or arrangements, for coding, decoding, compressing or decompressing digital video signals <u>H04N 19/00;</u> selective content distribution <u>H04N 21/00</u> )
Μ	H04N 7/01	<ul> <li>Conversion of standards {, e.g. involving analogue television standards or digital television standards processed at pixel level (video transcoding H04N 19/40; image scaling in general G06T 3/40; adapting incoming signals to the display format of the display terminal G09G 5/005)}</li> </ul>
Μ	H04N 7/10	<ul> <li>Adaptations for transmission by electricelectrical cable (H04N 7/12 takes precedence; {transmission by lines H04B 3/00; wired broadcast systems H04H 20/76; CATV [Community Antenna Television] systems H04H 20/78})</li> </ul>
Μ	H04N 7/12	<ul> <li>Systems in which the television signal is transmitted via one channel or a plurality of parallel channels, the bandwidth of each channel being less than the bandwidth of the television signal (<u>H04N 7/24</u> takes precedence; {by special scanning H04N 3/00}; high definition television systems H04N 7/015)</li> </ul>
U	H04N 7/14	<ul> <li>Systems for two-way working ({H04N 7/12, } H04N 7/173 take precedence)</li> </ul>

Μ	H04N 7/15	<ul> <li>Conference systems ({video terminal details H04N 7/141} ; telephonic conference arrangements H04M 3/56; {computer conferencing H04L 12/1813})</li> </ul>
U	H04N 7/16	<ul> <li>Analogue secrecy systems; Analogue subscription systems</li> </ul>
Μ	H04N 7/161	<ul> <li>{Constructional details of the subscriber equipment (<u>H04N 7/164</u> takes precedence; coin-freed and like apparatus in general G07F)}</li> </ul>
Μ	H04N 7/167	<ul> <li>Systems rendering the television signal unintelligible and subsequently intelligible {(secret communication in general H04K 1/00)}</li> </ul>
U	H04N 9/00	Details of colour television systems
U	H04N 9/04	Picture signal generators
U	H04N 9/09	<ul> <li>with more than one pick-up device</li> </ul>
Μ	H04N 9/097	<ul> <li>Optical arrangements associated therewith, e.g. for beam-splitting, for colour correction (beam-splitting in general G02B 27/10)</li> </ul>
Μ	H04N 9/10	<ul> <li>using optical-mechanical scanning means only (<u>H04N 9/11</u> takes precedence; optical scanning systems in general G02B 26/10)</li> </ul>
Μ	H04N 9/12	<ul> <li>Picture reproducers (devices or arrangements for the electro-, magneto- or acousto-optical modulation or deflection of light beams G02F<u>H04N 9/11</u> takes precedence)</li> </ul>
Μ	H04N 9/14	<ul> <li>using optical-mechanical scanning means only (H04N 9/11 takes precedence; optical scanning systems in general G02B 26/10)</li> </ul>
Μ	H04N 9/16	<ul> <li>using cathode ray tubes (<u>H04N 9/11</u> takes precedence; cathode-ray tubes H01J 31/00)</li> </ul>
U	H04N 9/28	
Μ	H04N 9/285	<ul> <li>using quadrupole lenses (quadrupole lenses per se G21K 1/08, H01J 3/14, H01J 29/58, H01J 37/10)</li> </ul>
Μ	H04N 9/30	<ul> <li>using solid-state colour display devices {(indicating devices using static means to present variable information G09G)}</li> </ul>
Μ	H04N 9/31	<ul> <li>Projection devices for colour picture display {, e.g. using electronic spatial light modulators [ESLM] (projection devices using film stock, photographic film or slides, G03B 21/00 and subgroups)</li> </ul>
U	H04N 9/79	<ul> <li>Processing of colour television signals in connection with recording</li> </ul>
U	H04N 9/87	<ul> <li>Regeneration of colour television signals (<u>H04N 9/80</u> takes precedence)</li> </ul>
U	H04N 9/88	
Μ	H04N 9/888	<ul> <li>for signals recorded by pulse code modulation (error detection or correction of digital signals for recording in general G11B 20/18)</li> </ul>
U	H04N 11/00	Colour television systems (details <u>H04N 9/00</u> )
D	H04N 11/002	• {High definition systems} <administratively 11="" 24="" h04n="" to="" transferred=""></administratively>
D	H04N 11/004	<ul> <li>- {involving two-channel transmission} <administratively 11="" 26="" h04n="" to="" transferred=""></administratively></li> </ul>
D	H04N 11/006	<ul> <li>- {involving bandwidth reduction, e.g. subsampling} <administratively 11="" 28="" h04n="" to="" transferred=""></administratively></li> </ul>
D	H04N 11/008	<ul> <li>{with transmission of the extra information by means of quadrature modulation}</li> <li><administratively 11="" 30="" h04n="" to="" transferred=""></administratively></li> </ul>
Μ	H04N 11/02	<ul> <li>with bandwidth reduction (<del>{H04N 11/002, } H04N 11/04</del> takes {, H04N 11/24} take precedence)</li> </ul>
Μ	H04N 11/04	<ul> <li>using pulse code modulation {(H04N 11/002H04N 11/24 takes precedence; pulse code modulation in general H03K, H03M)}</li> </ul>

H04N 11/20

H04N 11/22

H04N 11/24

H04N 11/26

H04N 11/28

H04N 11/30

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- U H04N 11/06 Transmission systems characterised by the manner in which the individual colour picture signal components are combined
  - Conversion of the manner in which the individual colour picture signal components are combined, e.g. conversion of colour television standards
    - • in which simultaneous signals are converted into sequential signals or <u>vice</u>
       <u>versa</u>
  - High-definition television systems
    - • {involving two-channel transmission}
    - • {involving bandwidth reduction, e.g. subsampling}
    - {with transmission of the extra information by means of quadrature modulation}

M H04N 21/00 Selective content distribution, e.g. interactive television, VOD [Video On Demand or video on demand [VOD] (broadcast communication H04Hrealtime bi-directional transmission of motion video data H04N 7/14 {; ; arrangements, apparatus, circuits or systems for communication control or processing being characterised by a protocol H04L 29/06; {broadcast or conference over packet- switching networks H04L 12/18, } real-time bidirectional transmission of motion video data H04N 7/14)

### <u>NOTES</u>

- 1. This group covers :
  - interactive video distribution processes, systems, or elements thereof, which are characterised by point-to-multipoint system configurations, and which are mainly used for motion video data unidirectional distribution or delivery resulting from interactions between systems operators, e.g. access or service providers, or users e.g. subscribers, and system elements.
  - such systems include dedicated communication systems, such as television distribution systems, which primarily distribute or deliver motion video data in the manner indicated, which may, in addition, provide a framework for further, diverse data communications or services in either unidirectional or bi-directional form. However, video will occupy most of the downlink bandwidth in the distribution process.
  - typically, system operators interface with transmitter-side elements or users' interface with receiver-side elements in order to facilitate, through interaction with such elements, the dynamic control of data processing or data flow at various points in the system. This interaction is typically occasional or intermittent in nature.
  - processes, systems or elements thereof specially adapted to the generation, distribution and processing of data, which is either associated with video content, e.g. metadata, ratings, or related to the user or his environment and which has been actively or passively gathered. This data is either used to facilitate interaction or to alter or target the content.

2. In this main group, the first place priority rule is applied, i.e. at each hierarchical level, in the absence of an indication to the contrary, classification is made in the first appropriate place.

3. In this main group, the following terms and expressions are used with the meaning indicated:

additional data - designates still pictures, textual, graphical or executable data such as software. It is used to convey supplemental information and can be generated prior to or during the distribution process itself, e.g. metadata, keys.

content designates video or audio streams, which may be combined with additional data. Video data will always be present and occupy most of the downlink bandwidth in the distribution process

server - designates an apparatus designed for adapting the content received from the content provider to the distribution network. It also manages the distribution to client devices or intermediate components over a network. Further servers may also be present for gathering or generating additional data, e.g. rights management server

additional data server - designates a server, which sole purpose is the distribution or management of additional data. It is not in charge of the distribution of video or audio data

client - designates an apparatus such as a TV receiver, a set-top-box, a PC-TV, a mobile appliance (e.g. mobile phone or receiver in a vehicle), for receiving video, audio and possibly additional data from one or several servers or intermediate components via a network for further processing, storing or displaying. It can also transmit this data on a home-based local network to further devices, e.g. a home server transmitting video to PCs and set-top-boxes within a home.

local network - pertains to a restricted area, e.g. a home or a vehicle, and designates the link between a client and its peripheral devices network - is to be distinguished from "local network": "network" designates the link between the server and the clients, or between the server and the intermediate components, or between the intermediate components and the clients, or between remotely located clients

distribution - encompasses broadcasting, multicasting and unicasting techniques for transmitting content from one or more sources to one or more receiving stations. The distribution follows a request by a receiving station to the source, e.g. VOD or from a customization of the content by the source, e.g. targeting advertisements to a demographic group in a unidirectional or bidirectional system. Additionally, distribution encompasses techniques where the client acts as a source and another client acts as a receiving station, e.g. a peer-to-peer system for sharing video among client devices

end-user - designates a physical person, e.g. a TV viewer, who consumes the content using the client device. He is the final recipient of the content distributed by the server

interaction - covers actions occurring between or among two or more objects that have an effect upon one another, wherein objects comprise users, system operators, system elements, or content. The user may interact with content locally at the client device, e.g. for requesting additional data stored within the client device. The user may interact with content remotely through a server e.g. for VOD playback control or for uploading video to a server. The client device may interact with the content e.g. selecting content based upon the user profile. The client device may interact with a server using a return channel, e.g. for authenticating client or uploading client hardware capabilities. The server may interact with a client device, e.g. to force a client to tune to an advertisement channel upstream - designates the direction of data flow towards the source, e.g. a server receiving a request via a mobile phone network. downstream - designates the direction of data flow towards a client, e.g. a client receiving data originating from a server elementary stream An elementary stream (ES) as defined by the MPEG system layer designates the output of an audio or video encoder.

Μ	H04N 21/233	• • Processing of audio elementary streams {(details of formatting and and a stream stre stream stream stre stream stream st
		decoding of an encoded audio signal representation into a data stream
		for transmission or storage purposes G10L 19/167; arrangements
		characterised by components specially adapted for monitoring, identification
		or recognition of audio in broadcast systems H04H 60/58monitoring,
		identification or recognition of audio in broadcast systems <u>H04H 60/58)</u> }

M H04N 21/234 • • • Processing of video elementary streams, e.g. splicing of <del>{content}video</del> streams, manipulating MPEG-4 scene graphs <del>{(video encoding or</del> transcoding processes per se H04N 19/00)}

Μ	H04N 21/2347	<ul> <li>involving video stream encryption (arrangements for secret or secure communication H04L 9/00, analogue secrecy systems H04N 7/16 {; arrangements using cryptography for the use of broadcast information or broadcast-related information H04H 60/23; arrangements for preventing the taking of data from a data transmission channel without authorisation H04L 12/22; security arrangements in wireless networks H04W 12/00})</li> </ul>
Μ	H04N 21/235	<ul> <li>Processing of additional data, e.g. scrambling of additional data, or processing content descriptors {(arrangements for simultaneous broadcast of plural pieces of information H04H 20/28)}</li> </ul>
Μ	H04N 21/236	<ul> <li>Assembling of a multiplex stream, e.g. transport stream, by combining a video stream with other content or additional data, e.g. inserting a URL [Uniform Resource Locator [URL] into a video stream, multiplexing software data into a video stream; Remultiplexing of multiplex streams; Insertion of stuffing bits into the multiplex stream, e.g. to obtain a constant bit-rate; Assembling of a packetised elementary stream {(multiplexing of data packets for data networks, e.g. RTP/UDP H04L 65/00)}</li> </ul>
Μ	H04N 21/241	<ul> <li>Operating Systemsystem [OS] processes, e.g. server setup (arrangements for programme control G06F 9/00 {; program loading or initiating in general G06F 9/445; multiprogramming arrangements G06F 9/46})</li> </ul>
Μ	H04N 21/242	<ul> <li>Synchronization processes, e.g. processing of <i>PCR</i> [Program Clock References [PCR] {(synchronisation arrangements in time-division multiplex systems H04J 3/06; arrangements for synchronising broadcast or distribution via plural systems in broadcast distribution systems H04H 20/18; arrangements for synchronising receiver with transmitter H04L 7/00; synchronising circuits with arrangements for extending range of synchronisation at the transmitter end H04N 5/067)}</li> </ul>
U	H04N 21/254	<ul> <li>Management at additional data server, e.g. shopping server, rights management server {(protocols involving third party service providers for network applications in communication control or processing <u>H04L 29/08666</u>; arrangements for maintenance or administration in data networks <u>H04L 41/00</u>)}</li> </ul>
Μ	H04N 21/2543	<ul> <li>Billing {, e.g. for subscription services (payment schemes, architectures or protocols <u>G06Q 20/00</u>; e-commerce <u>G06Q 30/00</u>; arrangements for billing for the use of broadcast information or broadcast-related information <u>H04H 60/21</u>; charging arrangements in data networks H04L 12/14)}</li> </ul>
U	H04N 21/40	<ul> <li>Client devices specifically adapted for the reception of or interaction with content, e.g. set-top-box [STB]; Operations thereof {(arrangements for distribution where lower stations, e.g. receivers, interact with the broadcast <u>H04H 20/38</u>; arrangements specially adapted for receiving broadcast information <u>H04H 40/00</u>)}</li> </ul>
U	H04N 21/41	<ul> <li>Structure of client; Structure of client peripherals</li> </ul>
U	H04N 21/414	<ul> <li>Specialised client platforms, e.g. receiver in car or embedded in a mobile appliance</li> </ul>
Μ	H04N 21/4147	<ul> <li>PVR [Personal Video Recorder [PVR] (<u>H04N 5/76</u> takes precedence {; arrangements for broadcast specially adapted for with accumulation-type receivers <u>H04H 20/40</u>})</li> </ul>
U	H04N 21/418	<ul> <li>External card to be used in combination with the client device, e.g. for conditional access</li> </ul>
Μ	H04N 21/4185	<ul> <li>for payment {(mechanisms actuated by coded identity card or credit card to free or to actuate vending, hiring, coin or paper currency dispensing or refunding apparatus G07F 7/08; payment schemes, architectures or protocols G06Q 20/00; e-commerce G06Q 30/00; charging arrangements in data networks H04L 12/14)}</li> </ul>

Μ	H04N 21/422	<ul> <li>• • {using}-Input-only peripherals {, i.e. input devices connected to specially adapted client devices-}, e.g. global positioning system [GPS] {(input devices also receiving signals from specially adapted client devices H04N 21/4104)}, e.g. Global Positioning System [GPS] (input arrangements or combined input and output arrangements for interaction between user and computer G06F 3/01)</li> </ul>
U	H04N 21/43	<ul> <li>Processing of content or additional data, e.g. demultiplexing additional data from a digital video stream; Elementary client operations, e.g. monitoring of home network, synchronizing decoder's clock; Client middleware {(demultiplexing of data packets for data networks, e.g. RTP/UDP H04L 29/06176)}</li> </ul>
Μ	H04N 21/431	<ul> <li>Generation of visual interfaces {for content selection or interaction}; Content or additional data rendering (receiver circuitry for displaying additional information H04N 5/445; interaction techniques for graphical user interfaces G06F 3/048)</li> </ul>
Μ	H04N 21/436	<ul> <li>Interfacing a local distribution network, e.g. communicating with another STB, or inside the home {; Interfacing an external card to be used in combination with the client device} (arrangements specially adapted plural spots in a confined site in broadcast systems H04H 20/63)}</li> </ul>
Μ	H04N 21/4367	<ul> <li>Establishing a secure communication between the client and a peripheral device or smart card (arrangements for secret or secure communication H04L 9/00; security arrangements for protecting computers or computer systems against unauthorised activity G06F 21/00 {; security arrangements in wireless networks H04W 12/00})</li> </ul>
U	H04N 21/44	<ul> <li>Processing of video elementary streams, e.g. splicing a video clip retrieved from local storage with an incoming video stream, rendering scenes according to MPEG-4 scene graphs</li> </ul>
Μ	H04N 21/4405	<ul> <li>involving video stream decryption (arrangements for secret or secure communication H04L 9/00 {; arrangements using cryptography for the use of broadcast information or broadcast-related information H04H 60/23})</li> </ul>
Μ	H04N 21/4408	<ul> <li>involving video stream encryption, e.g. re-encrypting a decrypted video stream for redistribution in a home network (arrangements for secret or secure communication H04L 9/00 {; arrangements using cryptography for the use of broadcast information or broadcast-related information H04H 60/23})</li> </ul>
Μ	H04N 21/441	<ul> <li>Acquiring end-user identification {(authentication in wireless communication networks H04W 12/06)Acquiring end-user identification {, e.g. using personal code sent by the remote control or by inserting a card (restricting access to computer systems by authenticating users using a predetermined code G06F 21/33)}</li> </ul>
Μ	H04N 21/4415	<ul> <li>using biometric characteristics of the user, e.g. by voice recognition or fingerprint scanning {(methods or arrangements for recognising patterns G06K 9/00; restricting access to computer systems by authenticating users using biometric data G06F 21/32; authentication mechanisms using biometrical features for network security H04L 29/06809; authentication in wireless network security H04W 12/06)}</li> </ul>
Μ	H04N 21/4425	<ul> <li>Monitoring of client processing errors or hardware failure (monitoring in electrical digital data processing G06F 11/00 {; error detection in general G06F 11/07; monitoring in general G06F 11/30})</li> </ul>
Μ	H04N 21/443	<ul> <li>OS processes, e.g. booting an STB, implementing a Java virtual machine in an STB, or power management in an STB (arrangements for program loading or initiating G06F 9/445 {; boot device selection; loading of operating system G06F 9/4406; program loading or initiating in general using non-volatile memory from which the program can be directly executed G06F 9/44568})</li> </ul>

М	H04N 21/454	<ul> <li>Content {or additional data} filtering, e.g. blocking advertisements</li></ul>
Μ	H04N 21/4545	<ul> <li>Input to filtering algorithms, e.g. filtering a region of the image {(filtering for image enhancement or restoration G06T 5/00)}</li> </ul>
Μ	H04N 21/4623	<ul> <li>Processing of entitlement messages, e.g. <u>ECM [Entitlement Control</u> Message <u>[ECM], ] or EMM [Entitlement Management Message [EMM]</u> {(arrangements for conditional access to broadcast information or to broadcast-related services <u>H04H 60/14</u>)}</li> </ul>
Μ	H04N 21/4627	<ul> <li>Rights management {associated to the content (protecting software against unauthorised usage in a vending or licensing environment G06F 21/10; security management or policies for network security H04L 29/06986; security in data switching network management H04L 41/28; access security in wireless networks H04W 12/08)}</li> </ul>
Μ	H04N 21/466	<ul> <li>Learning process for intelligent management, e.g. learning user preferences for recommending movies {(monitoring of user activities for profile generation for accessing a video database G06F 17/30843; computer systems using learning methods G06N 3/08; services using the results of monitoring in broadcast systems H04H 60/61)}</li> </ul>
Μ	H04N 21/47	<ul> <li>End-user applications {(interaction techniques for graphical user interfaces G06F 3/048; receiver circuitry for displaying additional information H04N 5/445 {; software engineering for user interfaces G06F 8/20; services or applications for real-time multimedia communications H04L 29/06387})}</li> </ul>
U	H04N 21/478	<ul> <li>Supplemental services, e.g. displaying phone caller identification, shopping application</li> </ul>
Μ	H04N 21/4782	<ul> <li>Web browsing {, e.g. WebTV (information retrieval from the Internet G06F 17/30861; protocols for network applications involving the use of web-based technology H04L 29/0809)}</li> </ul>
Μ	H04N 21/4784	<ul> <li>receiving rewards {(payment schemes, architectures or protocols G06Q 20/00; e-commerce G06Q 30/00; charging arrangements in data networks H04L 12/14)}</li> </ul>
Μ	H04N 21/482	<ul> <li>End-user interface for program selection {(systems specially adapted for using EPGs in broadcast systems H04H 60/72broadcast systems using EPGs H04H 60/72)}</li> </ul>
U	H04N 21/488	<ul> <li>Data services, e.g. news ticker {(systems specially adapted for using meteorological information in broadcast systems <u>H04H 60/71</u>)}</li> </ul>
М	H04N 21/60	<ul> <li>{using} Network structure or processes {specifically adapted} for video distribution between server and client or between remote clients (data switching networks H04L 12/00; wireless communication networks H04W); Control signaling {specific to video distribution} signalling between clients, server and network components {, e.g. to video encoder or decoder}; Transmission of management data between server and client {, e.g. sending from server to client commands for recording incoming content stream}; Communication details between server and client {Protocols for communication control and processing in data networks H04L 29/06; Protocols for client-server architecture H04L 67/42)</li> </ul>
U	H04N 21/63	<ul> <li>Control signaling {related to video distribution} between client, server and network components; Network processes for video distribution between server and clients {or between remote clients}, e.g. transmitting basic layer and enhancement layers over different transmission paths, setting up a peer- to-peer communication via Internet between remote STB's; Communication protocols; Addressing (signalling, control or architecture for real-time multimedia communications <u>H04L 29/06183</u>; arrangements for peer-to-peer communications <u>H04L 29/08306</u>)</li> </ul>

U	H04N 21/633	<ul> <li>Control signals issued by server directed to the network components or client {(management of faults, events, alarms in data networks <u>H04L 41/06</u>)}</li> </ul>
U	H04N 21/6332	· · · directed to client
Μ	H04N 21/6334	<ul> <li>for authorisation, e.g. by transmitting a key {(arrangements for secret or secure communication H04L 9/00 {; wireless communications network key management H04W 12/04; wireless communications network access security H04W 12/08}))</li> </ul>
Μ	H04N 21/643	<ul> <li>         +          <ul> <li></li></ul></li></ul>

# Project: RP0355 (A61B)

U	A61B 5/00	Detecting, measuring or recording for diagnostic purposes (radiation diagnosis <u>A61B 6/00</u> ; diagnosis by ultrasonic, sonic or infrasonic waves <u>A61B 8/00</u> ); Identification of persons
Μ	A61B 5/04	<ul> <li>Detecting, measuring or recording Measuring bioelectric signals of the body or parts thereof</li> </ul>
Е	A61B 5/0488	Electromyography
		WARNING
		Group <u>A61B 5/0488</u> is incomplete pending reclassification of documents from group <u>A61B 5/04888</u> . Groups <u>A61B 5/04888</u> and <u>A61B 5/04888</u> should be considered in order to perform a complete search.
U	A61B 5/04882	· · · {of genito-urinary organs}
U	A61B 5/04884	<ul> <li>• • {Detecting gastro-intestinal contractions}</li> </ul>
U	A61B 5/04886	<ul> <li>• {specially adapted for electroglottography or electropalatography}</li> </ul>
F	A61B 5/04888 (Frozen)	· · · {Control of prosthetics}
		WARNING Group <u>A61B 5/04888</u> is no longer used for the classification of documents as of January 1, 2019. The content of this groups is being reclassified into groups <u>A61B 5/0488</u> , <u>A61B 5/4851</u> , <u>A61F 2002/482</u> and <u>A61F 2/72</u> . All groups listed in this Warning should be considered in order to perform a complete search.
U	A61B 5/48	{Other medical applications}
Е	A61B 5/4851	<ul> <li>         • {Prosthesis assessment or monitoring (A61B 5/04888 takes precedence)}     </li> </ul>
		<u>WARNING</u> Group <u>A61B 5/4851</u> is incomplete pending reclassification of documents from group <u>A61B 5/04888</u> . Groups <u>A61B 5/4851</u> and <u>A61B 5/04888</u> should be considered in order to perform a complete search.

### Project: RP0355 in addition to MP0417 (A61F)

M A61F

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FILTERS IMPLANTABLE INTO BLOOD VESSELS; PROSTHESES;
DEVICES PROVIDING PATENCY TO, OR PREVENTING COLLAPSING OF,
TUBULAR STRUCTURES OF THE BODY, E.Ge.g. STENTS; ORTHOPAEDIC,
NURSING OR CONTRACEPTIVE DEVICES; FOMENTATION; TREATMENT
OR PROTECTION OF EYES OR EARS; BANDAGES, DRESSINGS OR
ABSORBENT PADS; FIRST-AID KITS (dental prosthetics <u>A61C</u>)
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### WARNINGS

1. The following IPC groups are not in the CPC scheme. The subject matter for these IPC groups is classified in the following CPC groups:

chese in o groups is sidesined		o groups.
A61F 2/48	covered by	<u>A61F 2/02</u>
A61F 2/56	covered by	<u>A61F 2/54</u>
A61F 2/62	covered by	<u>A61F 2/60</u>
<del>A61F 2/70</del>	<del>covered by</del>	<del>A61F 2/68, A61F 2/72</del>
A61F 2/74	covered by	<u>A61F 2/68</u>
A61F 5/045	covered by	<u>A61G 13/12</u>
A61F 5/052	covered by	<u>A61F 5/05</u>
A61F 5/447	covered by	<u>A61F 5/445</u>
A61F 5/452	covered by	<u>A61F 5/451</u>
A61F 5/457	covered by	<u>A61F 5/451</u>
A61F 5/458	covered by	<u>A61F 5/451</u>
A61F 6/10	covered by	<u>A61F 6/08</u>
A61F 9/01	covered by	<u>A61F 9/00802</u> -
		<u>A61F 9/00825</u>
A61F 9/011	covered by	<u>A61F 9/00802</u> -
		<u>A61F 9/00825</u>
A61F 13/22	covered by	<u>A61F 13/206</u>
A61F 13/24	covered by	A61F 13/2037
A61F 13/30	covered by	<u>A61F 13/26</u>
A61F 13/32	covered by	<u>A61F 13/26</u>
A61F 13/40	covered by	A61M 35/006

2. In this subclass non-limiting references (in the sense of paragraph 39 of the Guide to the IPC) may still be displayed in the scheme.

#### Project: RP0355 (A61F)

U	A61F 2/00	Filters implantable into blood vessels; Prostheses, i.e. artificial substitutes or replacements for parts of the body; Appliances for connecting them with the body; Devices providing patency to, or preventing collapsing of, tubular structures of the body, e.g. stents (as cosmetic articles, <u>see</u> the relevant subclasses, e.g. wigs, hair pieces, <u>A41G 3/00</u> , <u>A41G 5/00</u> , artificial nails <u>A45D 31/00</u> ; dental prostheses <u>A61C 13/00</u> ; materials for prostheses <u>A61L 27/00</u> ; artificial hearts <u>A61M 1/10</u> ; artificial kidneys <u>A61M 1/14</u> )
U	A61F 2/02	<ul> <li>Prostheses implantable into the body {(closure means for urethra or rectum or for artificial body openings therefor <u>A61F 2/0004</u>)}</li> </ul>
U	A61F 2002/48	<ul> <li>• {Operating or control means}</li> </ul>
Е	A61F 2002/482	• • • {electrical}
		<u>WARNING</u> Group <u>A61F 2002/482</u> is incomplete pending reclassification of documents from group <u>A61B 5/04888</u> . Groups <u>A61B 5/04888</u> and <u>A61F 2002/482</u> should be considered in order to perform a complete search.

U	A61F 2/50	<ul> <li>Prostheses not implantable in the body {(closure means for urethra or rectum or for artificial body openings therefor <u>A61F 2/0004</u>)}</li> </ul>
С	A61F 2/68	Operating or control means
		<u>WARNING</u> Group <u>A61F 2/68</u> is impacted by reclassification into group <u>A61F 2/70</u> . Groups <u>A61F 2/68</u> and <u>A61F 2/70</u> should be considered in order to perform a complete search.
Е	A61F 2/70	<ul> <li>electrical {(not used, see A61F 2/68 and A61F 2/72)}</li> </ul>
		<u>WARNING</u> Group <u>A61F 2/70</u> is incomplete pending reclassification of documents from group <u>A61F 2/68</u> . Groups <u>A61F 2/70</u> and <u>A61F 2/68</u> should be considered in order to perform a complete search.
Е	A61F 2/72	Bioelectrical control, e.g. myoelectric
		<u>WARNING</u> Group <u>A61F 2/72</u> is incomplete pending reclassification of documents from group <u>A61B 5/04888</u> . Groups <u>A61B 5/04888</u> and <u>A61F 2/72</u> should be considered in order to perform a complete search.

# Project: RP0361 (H04W)

С	H04W 12/00	Security arrangements, e.g. access security or fraud detection; Authentication, e.g. verifying user identity or authorisation; Protecting privacy or anonymity <i>{; Protecting confidentiality; Key management;</i> <i>Integrity; Mobile application security; Using identity modules; Secure</i> <i>pairing of devices; Context aware security; Lawful interception}</i>
		WARNING
		Group <u>H04W 12/00</u> is impacted by reclassification into groups <u>H04W 12/00</u> , <u>H04W 12/001</u> , <u>H04W 12/0013</u> , <u>H04W 12/0017</u> , <u>H04W 12/002</u> , <u>H04W 12/0023</u> , <u>H04W 12/0027</u> , <u>H04W 12/003</u> , <u>H04W 12/00305</u> , <u>H04W 12/0040</u> , <u>H04W 12/00403</u> , <u>H04W 12/00405</u> , <u>H04W 12/00407</u> , <u>H04W 12/00409</u> , <u>H04W 12/0055</u> , <u>H04W 12/00515</u> , <u>H04W 12/00502</u> , <u>H04W 12/00503</u> , <u>H04W 12/00514</u> , <u>H04W 12/00555</u> , <u>H04W 12/00556</u> , <u>H04W 12/00558</u> , <u>H04W 12/00518</u> , <u>H04W 12/00512</u> , <u>H04W 12/00514</u> , <u>H04W 12/00516</u> , <u>H04W 12/00518</u> , <u>H04W 12/0052</u> , <u>H04W 12/00522</u> , <u>H04W 12/00524</u> , <u>H04W 12/007</u> , <u>H04W 12/009</u> , <u>H04W 12/0401</u> , <u>H04W 12/0403</u> , <u>H04W 12/04033</u> , <u>H04W 12/0605</u> , <u>H04W 12/0407</u> , <u>H04W 12/04071</u> , <u>H04W 12/0602</u> , <u>H04W 12/0605</u> , <u>H04W 12/0608</u> , <u>H04W 12/1002</u> , <u>H04W 12/1004</u> , <u>H04W 12/1006</u> , <u>H04W 12/0806</u> , <u>H04W 12/0808</u> , <u>H04W 12/1002</u> , <u>H04W 12/1004</u> , <u>H04W 12/1204</u> , <u>H04W 12/1205</u> , <u>H04W 12/12</u> , <u>H04W 12/1201</u> , H04W 12/1202, H04W 12/1204, <u>H04W 12/1205</u> , <u>H04W 12/1206</u> , <u>H04W 12/1208</u> . All groups listed in this warning should be considered in order to perform a complete search.
Ν	H04W 12/001	<ul> <li>{Protecting confidentiality, e.g. by encryption or ciphering}</li> <li><u>WARNING</u></li> <li>Group <u>H04W 12/001</u> is incomplete pending reclassification of documents from groups <u>H04W 12/00</u> and <u>H04W 12/02</u>.</li> <li>Groups <u>H04W 12/00</u>, <u>H04W 12/02</u>, and <u>H04W 12/001</u> should be considered in order to perform a complete search.</li> </ul>

Ν	H04W 12/0013	<ul> <li>• {of user plane, e.g. user traffic}</li> </ul>
		<u>WARNING</u> Group <u>H04W 12/0013</u> is incomplete pending reclassification of documents from group <u>H04W 12/00</u> . Groups <u>H04W 12/00</u> and <u>H04W 12/0013</u> should be considered in order to perform a complete search.
Ν	H04W 12/0017	<ul> <li>• {of control plane, e.g. signalling traffic}</li> </ul>
		<u>WARNING</u> Group <u>H04W 12/0017</u> is incomplete pending reclassification of documents from group <u>H04W 12/00</u> . Groups <u>H04W 12/00</u> and <u>H04W 12/0017</u> should be considered in order to perform a complete search.
Ν	H04W 12/002	{Mobile device security; Mobile application security}
		<u>WARNING</u> Group <u>H04W 12/002</u> is incomplete pending reclassification of documents from group <u>H04W 12/00</u> . Groups <u>H04W 12/00</u> and <u>H04W 12/002</u> should be considered in order to perform a complete search.
Ν	H04W 12/0023	<ul> <li>{Protecting application or service provisioning, e.g. securing SIM application provisioning}</li> </ul>
		<u>WARNING</u> Group <u>H04W 12/0023</u> is incomplete pending reclassification of documents from group <u>H04W 12/00</u> . Groups <u>H04W 12/00</u> and <u>H04W 12/0023</u> should be considered in order to perform a complete search.
Ν	H04W 12/0027	<ul> <li>{Managing security policies for mobile device or applications control, e.g. mobile application permission management or mobile device security settings}</li> </ul>
		<u>WARNING</u> Group <u>H04W 12/0027</u> is incomplete pending reclassification of documents from group <u>H04W 12/00</u> . Groups <u>H04W 12/00</u> and <u>H04W 12/0027</u> should be considered in order to perform a complete search.
Ν	H04W 12/003	<ul> <li>{Secure pairing of devices, e.g. bootstrapping a secure communication link between pairing terminals; Secure socializing}</li> </ul>
		<u>WARNING</u> Group <u>H04W 12/003</u> is incomplete pending reclassification of documents from group <u>H04W 12/00</u> . Groups <u>H04W 12/00</u> and <u>H04W 12/003</u> should be considered in order to perform a complete search.
Ν	H04W 12/00305	<ul> <li>{involving three or more devices, e.g. group pairing} <u>WARNING</u> Group <u>H04W 12/00305</u> is incomplete pending reclassification of documents from group <u>H04W 12/00</u>. Groups <u>H04W 12/00</u> and <u>H04W 12/00305</u> should be considered in order to perform a complete search.</li> </ul>

Ν	H04W 12/004	{using identity modules}
		<u>WARNING</u> Group <u>H04W 12/004</u> is incomplete pending reclassification of documents from group <u>H04W 12/00</u> . Groups <u>H04W 12/00</u> and <u>H04W 12/004</u> should be considered in order to perform a complete search.
Ν	H04W 12/00401	<ul> <li>• {using virtual identity modules}</li> <li><u>WARNING</u></li> <li>Group <u>H04W 12/00401</u> is incomplete pending reclassification of documents</li> </ul>
		from group <u>H04W 12/00</u> . Groups <u>H04W 12/00</u> and <u>H04W 12/00401</u> should be considered in order to perform a complete search.
Ν	H04W 12/00403	<ul> <li>• {using shared identity modules, e.g. SIM sharing}</li> </ul>
		<u>WARNING</u> Group <u>H04W 12/00403</u> is incomplete pending reclassification of documents from group <u>H04W 12/00</u> . Groups <u>H04W 12/00</u> and <u>H04W 12/00403</u> should be considered in order to perform a complete search.
N	H04W 12/00405	<ul> <li>• {using multiple identity modules}</li> </ul>
1	110400 12/00400	WARNING
		Group <u>H04W 12/00405</u> is incomplete pending reclassification of documents from group <u>H04W 12/00</u> . Groups <u>H04W 12/00</u> and <u>H04W 12/00405</u> should be considered in order to perform a complete search.
Ν	H04W 12/00407	<ul> <li>{using near field communication [NFC], e.g. NFC tag, smart tag or radio frequency identification [RFID] module}</li> </ul>
		<u>WARNING</u> Group <u>H04W 12/00407</u> is incomplete pending reclassification of documents from group <u>H04W 12/00</u> . Groups <u>H04W 12/00</u> and <u>H04W 12/00407</u> should be considered in order to perform a complete search.
Ν	H04W 12/00409	<ul> <li>{using secure binding, e.g. securely binding identity modules to devices, services or applications}</li> </ul>
		WARNING
		Group <u>H04W 12/00409</u> is incomplete pending reclassification of documents from group <u>H04W 12/00</u> . Groups <u>H04W 12/00</u> and <u>H04W 12/00409</u> should be considered in order to perform a complete search.
Ν	H04W 12/005	{Context aware security}
		WARNING
		<ul> <li>Group <u>H04W 12/005</u> is incomplete pending reclassification of documents from group <u>H04W 12/00</u>.</li> <li>Groups <u>H04W 12/00</u> and <u>H04W 12/005</u> should be considered in order to perform a complete search.</li> </ul>
Ν	H04W 12/00502	<ul> <li>• {Time aware}</li> </ul>
		WARNING
		Group <u>H04W 12/00502</u> is incomplete pending reclassification of documents from group <u>H04W 12/00</u> .

		Groups <u>H04W 12/00</u> and <u>H04W 12/00502</u> should be considered in order to perform a complete search.
N	H04W 12/00503	<ul> <li>{Location or proximity aware, e.g. using proximity to other devices} <u>WARNING</u> Group <u>H04W 12/00503</u> is incomplete pending reclassification of documents from group <u>H04W 12/00</u>. Groups <u>H04W 12/00</u> and <u>H04W 12/00503</u> should be considered in order to perform a complete search.</li> </ul>
Ν	H04W 12/00504	<ul> <li>{Ambient aware, e.g. using captured environmental data} <u>WARNING</u> Group <u>H04W 12/00504</u> is incomplete pending reclassification of documents from group <u>H04W 12/00</u>. Groups <u>H04W 12/00</u> and <u>H04W 12/00504</u> should be considered in order to perform a complete search.</li> </ul>
N	H04W 12/00505	<ul> <li>{Risk aware, e.g. selecting security levels depending on risk profiles} <u>WARNING</u> Group <u>H04W 12/00505</u> is incomplete pending reclassification of documents from group <u>H04W 12/00</u>. Groups <u>H04W 12/00</u> and <u>H04W 12/00505</u> should be considered in order to perform a complete search.</li> </ul>
N	H04W 12/00506	<ul> <li>{Trust aware, e.g. using trust scores or trust relationships} <u>WARNING</u> Group <u>H04W 12/00506</u> is incomplete pending reclassification of documents from group <u>H04W 12/00</u>. Groups <u>H04W 12/00</u> and <u>H04W 12/00506</u> should be considered in order to perform a complete search.</li> </ul>
N	H04W 12/00508	<ul> <li>{Gesture or behaviour aware, e.g. device movements or behaviometrics} <u>WARNING</u> Group <u>H04W 12/00508</u> is incomplete pending reclassification of documents from group <u>H04W 12/00</u>. Groups <u>H04W 12/00</u> and <u>H04W 12/00508</u> should be considered in order to perform a complete search.</li> </ul>
N	H04W 12/0051	<ul> <li>{Identity aware} <u>WARNING</u> Group <u>H04W 12/0051</u> is incomplete pending reclassification of documents from group <u>H04W 12/00</u>. Groups <u>H04W 12/00</u> and <u>H04W 12/0051</u> should be considered in order to perform a complete search.</li> </ul>
N	H04W 12/00512	<ul> <li>• • {Hardware identity} <u>WARNING</u> Group <u>H04W 12/00512</u> is incomplete pending reclassification of documents from group <u>H04W 12/00</u>. Groups <u>H04W 12/00</u> and <u>H04W 12/00512</u> should be considered in order to perform a complete search.</li> </ul>

Ν	H04W 12/00514	• • {Subscriber identity}
		<u>WARNING</u> Group <u>H04W 12/00514</u> is incomplete pending reclassification of documents from group <u>H04W 12/00</u> . Groups <u>H04W 12/00</u> and <u>H04W 12/00514</u> should be considered in order to perform a complete search.
Ν	H04W 12/00516	• • {Access point logical identity}
		<u>WARNING</u> Group <u>H04W 12/00516</u> is incomplete pending reclassification of documents from group <u>H04W 12/00</u> . Groups <u>H04W 12/00</u> and <u>H04W 12/00516</u> should be considered in order to perform a complete search.
Ν	H04W 12/00518	• • {Temporary identity}
		<u>WARNING</u>
		Group <u>H04W 12/00518</u> is incomplete pending reclassification of documents from group <u>H04W 12/00</u> . Groups <u>H04W 12/00</u> and <u>H04W 12/00518</u> should be considered in order to perform a complete search.
N	H04W 12/0052	• • • {Group identity}
		WARNING
		Group <u>H04W 12/0052</u> is incomplete pending reclassification of documents from group <u>H04W 12/00</u> . Groups <u>H04W 12/00</u> and <u>H04W 12/0052</u> should be considered in order to perform a complete search.
Ν	H04W 12/00522	• • {Graphical identity}
		<u>WARNING</u> Group <u>H04W 12/00522</u> is incomplete pending reclassification of documents from group <u>H04W 12/00</u> . Groups <u>H04W 12/00</u> and <u>H04W 12/00522</u> should be considered in order to perform a complete search.
Ν	H04W 12/00524	• • • {Radio fingerprint}
		<u>WARNING</u> Group <u>H04W 12/00524</u> is incomplete pending reclassification of documents from group <u>H04W 12/00</u> . Groups <u>H04W 12/00</u> and <u>H04W 12/00524</u> should be considered in order to perform a complete search.
Ν	H04W 12/007	{Lawful interception}
		<u>WARNING</u> Group <u>H04W 12/007</u> is incomplete pending reclassification of documents from group <u>H04W 12/00</u> . Groups <u>H04W 12/00</u> , <u>H04W 12/02</u> , and <u>H04W 12/007</u> should be considered in order to perform a complete search.
N	H04W 12/009	<ul> <li>{specially adapted for networks, e.g. wireless sensor networks, ad-hoc networks, RFID networks or cloud networks}</li> <li><u>WARNING</u></li> <li>Group <u>H04W 12/009</u> is incomplete pending reclassification of documents from group <u>H04W 12/00</u>.</li> </ul>

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	Groups <u>H04W 12/00</u> and <u>H04W 12/009</u> should be considered in order to perform a complete search.
•	Protecting privacy or anonymity <del>{, e.g. protecting personally identifiable</del> information [PII]}
	WARNING
	Group <u>H04W 12/02</u> is impacted by reclassification into groups <u>H04W 12/02,</u> <u>H04W 12/001, H04W 12/007</u> .
	All groups listed in this Warning should be considered in order to perform a complete search.
	Key management {, e.g. by generic bootstrapping architecture [GBA]}
•	
	<u>WARNING</u>
	Group <u>H04W 12/04</u> is impacted by reclassification into groups <u>H04W 12/04</u> , <u>H04W 12/0403</u> , <u>H04W 12/04033</u> , <u>H04W 12/04038</u> , <u>H04W 12/04038</u> , <u>H04W 12/0408</u> , <u>H04W 12/048</u> ,
	H04W 12/0407, H04W 12/04071.

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<u>H04W 12/0407, H04W 12/04071</u>. All groups listed in this Warning should be considered in order to perform a complete search.

N H04W 12/0401 • • {Key generation or derivation} <u>WARNING</u> Group <u>H04W 12/0401</u> is incomplete pending reclassification of documents from groups <u>H04W 12/00</u> and <u>H04W 12/04</u>. Groups <u>H04W 12/00</u>, <u>H04W 12/04</u>, and <u>H04W 12/0401</u> should be considered in order to perform a complete search.

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H04W 12/009 (continued)

H04W 12/02

H04W 12/04

С

С

- N H04W 12/0403 • {using a trusted network node as anchor} <u>WARNING</u> Group <u>H04W 12/0403</u> is incomplete pending reclassification of documents from groups <u>H04W 12/00</u> and <u>H04W 12/04</u>. Groups <u>H04W 12/00</u>, <u>H04W 12/04</u>, and <u>H04W 12/0403</u> should be considered in order to perform a complete search.
- N
   H04W 12/04031
   • {Key distribution, e.g. key pre-distribution or key agreement}

   <u>WARNING</u>
   Group <u>H04W 12/04031</u> is incomplete pending reclassification of documents from groups <u>H04W 12/00</u> and <u>H04W 12/04</u>.

   Groups <u>H04W 12/00</u>, <u>H04W 12/04</u>, and <u>H04W 12/04031</u> should be considered in order to perform a complete search.
- N H04W 12/04033
   • {Key management protocols, e.g. managing shared keys, group keys, multicast keys or rekeying}
   <u>WARNING</u> Group <u>H04W 12/04033</u> is incomplete pending reclassification of documents from groups <u>H04W 12/00</u> and <u>H04W 12/04</u>. Groups <u>H04W 12/00</u>, H04W 12/04, and <u>H04W 12/04033</u> should be

considered in order to perform a complete search.

N H04W 12/0407 • {without using a trusted network node as anchor} <u>WARNING</u> Group <u>H04W 12/0407</u> is incomplete pending reclassification of documents from groups <u>H04W 12/00</u> and <u>H04W 12/04</u>. Groups <u>H04W 12/00</u>, <u>H04W 12/04</u>, and <u>H04W 12/0407</u> should be considered in order to perform a complete search.

Ν	H04W 12/04071	<ul> <li>• • {Key exchange, e.g. between nodes}</li> </ul>
		<u>WARNING</u> Group <u>H04W 12/04071</u> is incomplete pending reclassification of documents from groups <u>H04W 12/00</u> and <u>H04W 12/04</u> . Groups <u>H04W 12/00</u> , <u>H04W 12/04</u> , and <u>H04W 12/04071</u> should be considered in order to perform a complete search.
С	H04W 12/06	Authentication
		WARNING
		Group <u>H04W 12/06</u> is impacted by reclassification into groups <u>H04W 12/06</u> , <u>H04W 12/0602, H04W 12/0605, H04W 12/0608, H04W 12/0609</u> . All groups listed in this Warning should be considered in order to perform a complete search.
Ν	H04W 12/0602	• • {Pre-authentication}
		WARNING
		Group <u>H04W 12/0602</u> is incomplete pending reclassification of documents from groups <u>H04W 12/00</u> and <u>H04W 12/06</u> . Groups <u>H04W 12/00</u> , <u>H04W 12/06</u> , and <u>H04W 12/0602</u> should be considered in order to perform a complete search.
Ν	H04W 12/0605	• {Continuous authentication}
		WARNING
		Group <u>H04W 12/0605</u> is incomplete pending reclassification of documents from groups <u>H04W 12/00</u> and <u>H04W 12/06</u> . Groups <u>H04W 12/00</u> , <u>H04W 12/06</u> , and <u>H04W 12/0605</u> should be considered in order to perform a complete search.
Ν	H04W 12/0608	<ul> <li>{using credential vaults, e.g. password manager applications or one time password [OTP] applications}</li> </ul>
		<u>WARNING</u> Group <u>H04W 12/0608</u> is incomplete pending reclassification of documents from groups <u>H04W 12/00</u> and <u>H04W 12/06</u> . Groups <u>H04W 12/00</u> , <u>H04W 12/06</u> , and <u>H04W 12/0608</u> should be considered in order to perform a complete search.
N	H04W 12/0609	<ul> <li>{using certificates or pre-shared keys}</li> </ul>
14	110411 12/0003	
		<u>WARNING</u> Group <u>H04W 12/0609</u> is incomplete pending reclassification of documents from groups <u>H04W 12/00</u> and <u>H04W 12/06</u> . Groups <u>H04W 12/00</u> , <u>H04W 12/06</u> , and <u>H04W 12/0609</u> should be considered in order to perform a complete search.
С	H04W 12/08	Access security
		<u>WARNING</u> Group <u>H04W 12/08</u> is impacted by reclassification into groups <u>H04W 12/08,</u> <u>H04W 12/0802, H04W 12/0804, H04W 12/0806, H04W 12/0808</u> . All groups listed in this Warning should be considered in order to perform a complete search.
Ν	H04W 12/0802	<ul> <li>• {using revocation of authorisation}</li> </ul>
		WARNING
		Group <u>H04W 12/0802</u> is incomplete pending reclassification of documents from groups H04W 12/00 and H04W 12/08.

<b>Project: RP0361 (H04W)</b> H04W 12/0802 (continued)	CPC - 2019.01
	Groups <u>H04W 12/00</u> , <u>H04W 12/08</u> , and <u>H04W 12/0802</u> should be considered in order to perform a complete search.
N H04W 12/0804	<ul> <li>{using delegated authorisation, e.g. Open Authorisation [OAuth] protocol, user centric management of access rights or user consent}</li> <li>WARNING</li> </ul>
	Group <u>H04W 12/0804</u> is incomplete pending reclassification of documents from groups <u>H04W 12/00</u> and <u>H04W 12/08</u> . Groups <u>H04W 12/00</u> , <u>H04W 12/08</u> , and <u>H04W 12/0804</u> should be considered in order to perform a complete search.
N H04W 12/0806	<ul> <li>{using security domains, e.g. separating enterprise and private data domains, building machine-to-machine [M2M] domains or global platform domains}</li> </ul>
	<u>WARNING</u> Group <u>H04W 12/0806</u> is incomplete pending reclassification of documents from groups <u>H04W 12/00</u> and <u>H04W 12/08</u> . Groups <u>H04W 12/00</u> , <u>H04W 12/08</u> , and <u>H04W 12/0806</u> should be considered in order to perform a complete search.
N H04W 12/0808	• {using packet filters or firewalls}
	<u>WARNING</u> Group <u>H04W 12/0808</u> is incomplete pending reclassification of documents from groups <u>H04W 12/00</u> and <u>H04W 12/08</u> . Groups <u>H04W 12/00</u> , <u>H04W 12/08</u> , and <u>H04W 12/0808</u> should be considered in order to perform a complete search.
C H04W 12/10	Integrity
	<u>WARNING</u> Group <u>H04W 12/10</u> is impacted by reclassification into groups <u>H04W 12/10</u> , <u>H04W 12/1002</u> , <u>H04W 12/1004</u> , <u>H04W 12/1006</u> , <u>H04W 12/1008</u> . All groups listed in this Warning should be considered in order to perform a complete search.
N H04W 12/1002	• • {Route integrity, e.g. using trusted paths}
	<u>WARNING</u> Group <u>H04W 12/1002</u> is incomplete pending reclassification of documents from groups <u>H04W 12/00</u> and <u>H04W 12/10</u> . Groups <u>H04W 12/00</u> , <u>H04W 12/10</u> , and <u>H04W 12/1002</u> should be considered in order to perform a complete search.
N H04W 12/1004	<ul> <li>{Location integrity, e.g. secure geo-tagging or trusted cell tagging}</li> </ul>
	<u>WARNING</u> Group <u>H04W 12/1004</u> is incomplete pending reclassification of documents from groups <u>H04W 12/00</u> and <u>H04W 12/10</u> . Groups <u>H04W 12/00, H04W 12/10</u> , and <u>H04W 12/1004</u> should be
	considered in order to perform a complete search.
N H04W 12/1006	• {Packet or message integrity} <u>WARNING</u>
	Group <u>H04W 12/1006</u> is incomplete pending reclassification of documents from groups <u>H04W 12/00</u> and <u>H04W 12/10</u> .
	Groups <u>H04W 12/00</u> , <u>H04W 12/10</u> , and <u>H04W 12/1006</u> should be considered in order to perform a complete search.

Ν	H04W 12/1008	<ul> <li>{Source integrity} <u>WARNING</u> Group <u>H04W 12/1008</u> is incomplete pending reclassification of documents from groups <u>H04W 12/00</u> and <u>H04W 12/10</u>. Groups <u>H04W 12/00</u>, <u>H04W 12/10</u>, and <u>H04W 12/1008</u> should be considered in order to perform a complete search.</li> </ul>
С	H04W 12/12	Fraud detection {or prevention}
		WARNINGGroup H04W 12/12 is incomplete pending reclassification of documents from group H04W 12/00.Group H04W 12/12 is also impacted by reclassification into groups H04W 12/12, H04W 12/1201, H04W 12/1202, H04W 12/1204, H04W 12/1205, H04W 12/1206, H04W 12/1208.All groups listed in this Warning should be considered in order to perform a complete search.
Ν	H04W 12/1201	<ul> <li>{Wireless intrusion detection system [WIDS]; Wireless intrusion prevention system [WIPS]}</li> <li><u>WARNING</u> Group <u>H04W 12/1201</u> is incomplete pending reclassification of documents</li> </ul>
		from groups <u>H04W 12/00</u> and <u>H04W 12/12</u> . Groups <u>H04W 12/00</u> , <u>H04W 12/12</u> , and <u>H04W 12/1201</u> should be considered in order to perform a complete search.
Ν	H04W 12/1202	<ul> <li>• • {Protecting against rogue devices} <u>WARNING</u> Group <u>H04W 12/1202</u> is incomplete pending reclassification of documents from groups <u>H04W 12/00</u> and <u>H04W 12/12</u>. Groups <u>H04W 12/00</u>, <u>H04W 12/12</u>, and <u>H04W 12/1202</u> should be considered in order to perform a complete search.</li> </ul>
Ν	H04W 12/1204	<ul> <li>• • {Countermeasures against attacks} <u>WARNING</u> Group <u>H04W 12/1204</u> is incomplete pending reclassification of documents from groups <u>H04W 12/00</u> and <u>H04W 12/12</u>. Groups <u>H04W 12/00</u>, <u>H04W 12/12</u>, and <u>H04W 12/1204</u> should be considered in order to perform a complete search.</li> </ul>
Ν	H04W 12/1205	<ul> <li>{Protecting against power exhaustion attacks, e.g. power depletion, starvation attack or sleep deprivation attack}</li> <li><u>WARNING</u></li> <li>Group <u>H04W 12/1205</u> is incomplete pending reclassification of documents from groups <u>H04W 12/00</u> and <u>H04W 12/12</u>.</li> <li>Groups <u>H04W 12/00</u>, <u>H04W 12/12</u>, and <u>H04W 12/1205</u> should be considered in order to perform a complete search.</li> </ul>
Ν	H04W 12/1206	<ul> <li>{Anti-theft arrangements, e.g. protecting against device theft, subscriber identity module [SIM] cloning or machine-to-machine [M2M] displacement}</li> <li><u>WARNING</u></li> <li>Group <u>H04W 12/1206</u> is incomplete pending reclassification of documents from groups <u>H04W 12/00</u> and <u>H04W 12/12</u>.</li> <li>Groups <u>H04W 12/00</u>, <u>H04W 12/12</u>, and <u>H04W 12/1206</u> should be considered in order to perform a complete search.</li> </ul>

Ν	H04W 12/1208	<ul> <li>{Anti-malware arrangements, e.g. protecting against SMS fraud or mobile malware}</li> </ul>
		WARNING
		Group <u>H04W 12/1208</u> is incomplete pending reclassification of documents from groups <u>H04W 12/00</u> and <u>H04W 12/12</u> . Groups <u>H04W 12/00</u> , <u>H04W 12/12</u> , and <u>H04W 12/1208</u> should be considered in order to perform a complete search.
Pro	ject: RP0368 (G011	۷)
U	G01N 33/574	• • • for cancer
		NOTE
		<ul> <li>In this group:</li> <li>relevant features relating to a specifically defined cancer are only classified in groups <u>G01N 33/57407</u> - <u>G01N 33/57449</u></li> <li>relevant features describing cancer markers related to multiple forms of cancer are classified in groups <u>G01N 33/57484</u> - <u>G01N 33/57496</u></li> </ul>
D	G01N 2033/57403	•••• <del>{of breast}</del> <administratively <u="" to="" transferred="">G01N 33/57415&gt;</administratively>
U	G01N 33/57407	· · · · {Specifically defined cancers}
Е	G01N 33/57415	••••• {of breast}
Е	G01N 33/57423	••••• {of lung}
Е	G01N 33/5743	•••••{of skin, <mark>e.g.</mark> melanoma}
Е	G01N 33/57438	••••• {of liver, pancreas or kidney}
Е	G01N 33/57446	· · · · · {of stomach or intestine}
D	G01N 2033/57453	+ {of lung} <administratively 33="" 57423="" g01n="" to="" transferred=""></administratively>
D	G01N 2033/57457	+ {of skin} <administratively 33="" 5743="" g01n="" to="" transferred=""></administratively>
D	G01N 2033/57461	<ul> <li> {of liver, pancreas or kidney}</li> <li><administratively 33="" 57438="" g01n="" to="" transferred=""></administratively></li> </ul>
D	G01N 2033/57465	•••• <del>{of stomach or intestine}</del> <administratively <u="" to="" transferred="">G01N 33/57446&gt;</administratively>

# Project: RP0370 (B31F)

U	B31F 2201/00	Mechanical deformation of paper or cardboard without removing material
М	B31F 2201/07	• Embossing <del> (not used)</del>
Е	B31F 2201/0707	• by tools working continuously
D	B31F 2201/071	<ul> <li>Type and charactristics of the embossing toools (not used)</li> <li><administratively <u="" to="" transferred="">B31F 2201/0707 ADD&gt;</administratively></li> </ul>
D	B31F 2201/0712	<ul> <li>Other than rollers, e.g. belts, plates</li> <li><administratively <u="" to="" transferred="">B31F 2201/0754 ADD&gt;</administratively></li> </ul>
М	B31F 2201/0715	• • • • Rollers The tools being rollers
М	B31F 2201/0717	• • • • Methods and means for forming the embossments
М	B31F 2201/072	••••• Laser engraving
М	B31F 2201/0723	· · · ·      Characteristics of the rollers
М	B31F 2201/0725	• • • • • Hardness
М	B31F 2201/0728	• • • • • • • Material

Μ	B31F 2201/073	• • • • • Rollers having a multilayered structure
Μ	B31F 2201/0733	••••• Pattern
Μ	B31F 2201/0735	••••• Pattern inclined with respect to the axis of the roller
Μ	B31F 2201/0738	• • • • • Cross sectional profile of the embossments
Μ	B31F 2201/0741	• • • • Roller cooperating with a non-even counter roller
Μ	B31F 2201/0743	••••• having a matching profile
Μ	B31F 2201/0746	•••••• and having a self-centering profile
Μ	B31F 2201/0748	🚥 🗤 🔹 having a dissimilar profile
Μ	B31F 2201/0751	•••••• and having a self-centering profile
Μ	B31F 2201/0753	<ul> <li>• • • Roller supporting, positioning, driving means</li> </ul>
Ν	B31F 2201/0754	<ul> <li>The tools being other than rollers, e.g. belts or plates</li> </ul>

### Project: RP0371 (D07B)

M D07B 2801/00 Linked indexing codes associated with indexing codes or classes of D07B (not used)

### NOTE

The following indexing codes are applied as linked indexing codes associated to other indexing codes or classes of D07B, with the following restrictions:

- D07B 2801/10, D07B 2801/14 -D07B 2801/22 are only to be used as linked indexing codes with D07B 2205/00 and lower hierarchy
- <u>D07B 2801/12</u> and <u>D07B 2801/24</u> are only to be used as linked indexing codes with <u>D07B 2205/00</u> and lower hierarchy or <u>D07B 2201/2047</u> and lower hierarchy
- D07B 2801/60 and D07B 2801/62 are only to be used as linked indexing codes with D07B 2207/404 and lower hierarchy
- <u>D07B 2801/90</u> is only used as linked indexing code with any class or indexing code of <u>D07B</u> and defines that the classified feature belongs to the general knowledge.

### Project: RP0372 (C08G)

U	C08G 61/00	Macromolecular compounds obtained by reactions forming a carbon-to- carbon link in the main chain of the macromolecule ( <u>C08G 2/00</u> - <u>C08G 16/00</u> take precedence)
		NOTE
		In this group, it is desirable to add the indexing codes
		<u>C08G 2261/00</u> - <u>C08G 2261/964</u>
Е	C08G 61/12	<ul> <li>Macromolecular compounds containing atoms other than carbon in the main chain of the macromolecule</li> </ul>
D	C08G 61/128	<ul> <li>+ {derived from other compounds} <administratively <u="" to="" transferred="">C08G 61/12&gt;</administratively></li> </ul>

### Project: RP0385 (G03G)

Μ	G03G 2215/00	Apparatus for electrophotographic processes <del>(not used)</del>
Μ	G03G 2215/00025	<ul> <li>Machine control, e.g. regulating different parts of the machine (not used)</li> </ul>
Μ	G03G 2215/00071	<ul> <li>by measuring the photoconductor or its environmental characteristics (not used)</li> </ul>
Μ	G03G 2215/00088	<ul> <li>• by using information from an external support (not used)</li> </ul>
U	G03G 2215/00172	<ul> <li>relative to the original handling</li> </ul>
U	G03G 2215/00177	for scanning

М	G03G 2215/00181	<ul> <li>concerning the original's state of motion (not used)</li> </ul>
Μ	G03G 2215/00206	<ul> <li>Original medium (not used)</li> </ul>
Μ	G03G 2215/00354	<ul> <li>Specific document handling machines (not used)</li> </ul>
Μ	G03G 2215/00362	<ul> <li>relating to the copy medium handling (not used)</li> </ul>
Μ	G03G 2215/00367	<ul> <li>The feeding path segment where particular handling of the copy medium occurs, segments being adjacent and non-overlapping. Each segment is identified by the most downstream point in the segment, so that for instance the segment labelled "Fixing device" is referring to the path between the "Transfer device" and the "Fixing device" (not used)</li> </ul>
М	G03G 2215/00379	<ul> <li>Copy medium holder (not used)</li> </ul>
Μ	G03G 2215/00417	<ul> <li>Post-fixing device (not used)</li> </ul>
Μ	G03G 2215/00443	<ul> <li>Copy medium (not used)</li> </ul>
Μ	G03G 2215/00535	<ul> <li>Stable handling of copy medium (not used)</li> </ul>
Μ	G03G 2215/00687	<ul> <li>Handling details (not used)</li> </ul>
Μ	G03G 2215/00717	<ul> <li>Detection of physical properties (not used)</li> </ul>
М	G03G 2215/00886	<ul> <li>Sorting or discharging (not used)</li> </ul>
Μ	G03G 2215/00919	<ul> <li>Special copy medium handling apparatus (not used)</li> </ul>
Μ	G03G 2215/00953	<ul> <li>Electrographic recording members (not used)</li> </ul>
М	G03G 2215/00978	<ul> <li>Details relating to power supplies (not used)</li> </ul>
Μ	G03G 2215/01	<ul> <li>for producing multicoloured copies (not used)</li> </ul>
Μ	G03G 2215/0151	<ul> <li>characterised by the technical problem (not used)</li> </ul>
Μ	G03G 2215/019	<ul> <li>Structural features of the multicolour image forming apparatus (not used)</li> </ul>
U	G03G 2215/04	<ul> <li>Arrangements for exposing and producing an image</li> </ul>
U	G03G 2215/0429	<ul> <li>Changing or enhancing the image</li> </ul>
U	G03G 2215/0431	<ul> <li>Producing a clean non-image area, i.e. avoiding show-around effects</li> </ul>
Μ	G03G 2215/0434	<ul> <li>Parameters defining the non-image area to be cleaned (not used)</li> </ul>
Μ	G03G 2215/08	<ul> <li>Details of powder developing device not concerning the development directly (not used)</li> </ul>
U	G03G 2215/0802	<ul> <li>Arrangements for agitating or circulating developer material</li> </ul>
Μ	G03G 2215/0808	<ul> <li>Donor member rotation direction (not used)</li> </ul>
Μ	G03G 2215/0816	<ul> <li>Agitator type (not used)</li> </ul>
Μ	G03G 2215/0836	<ul> <li>Way of functioning of agitator means (not used)</li> </ul>
U	G03G 2215/0855	<ul> <li>Materials and manufacturing of the developing device</li> </ul>
Μ	G03G 2215/0858	<ul> <li>Donor member (not used)</li> </ul>
U	G03G 2215/16	Transferring device, details
Μ	G03G 2215/1604	<ul> <li>Main transfer electrode (not used)</li> </ul>
U	G03G 2215/20	Details of the fixing device or porcess
		NOTE Indexing codes of group <u>G03G 2215/20</u> can be followed by additional symbols preceded by a "+" sign and relating to additional characteristics. The indexing codes have the meaning as indicated below. +H Using heat to fix +P Using pressure to fix +P1 where the pressure is changed +P1A being adapted to the current toner-

carrying

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		medium treated (e.g. duplex copy, colour
		copy,
		OHP sheet, envelope)
		+ <b>P1B</b> compensating for temperature or other
		technical
		condition variations (e.g. sheet skewing) occurring
		+ <b>P1C</b> when being in a non-fixing or waiting
		mode
		+ <b>P1M</b> for maintenance purpose or abnormal
		situations
		(e.g. power cut-off)
Μ	G03G 2215/2003	<ul> <li>Structural features of the fixing device (not used)</li> </ul>
М	G03G 2215/207	<ul> <li>Type of toner image to be fixed (not used)</li> </ul>

# Project: RP0387 (A45D)

U	A45D 27/00	Shaving accessories (containers for handling shaving soap <u>A45D 40/00;</u> shaving mirrors <u>A45D 42/08</u> )
Е	A45D 27/003	<ul> <li>{Devices for softening beards, e.g. face steamers (shaving masks <u>A45D 27/42</u>)}</li> </ul>
D	A45D 2027/006	<ul> <li>{Devices for softening beards, e.g. face steamers}</li> <li><administratively <u="" to="" transferred="">A45D 27/003&gt;</administratively></li> </ul>

# Project: RP0397 (G06K)

D	G06K 2017/0035	<ul> <li>{Aspects not covered by other subgroups}</li> </ul>
D	G06K 2017/0038	<ul> <li>+ {Processing documents, e.g. checks, formulars}</li> </ul>
D	G06K 2017/0041	<ul> <li>+ {Personalising cards or checks, issuing personal tickets, passbooks or the like}</li> </ul>
D	G06K 2017/0045	<ul> <li>+ {Tracking objects or persons}</li> </ul>
D	G06K 2017/0048	<ul> <li>+ {Grouping, sorting, transporting, distributing documents or goods}</li> </ul>
D	G06K 2017/0051	<ul> <li>+ {Stock management, inventory systems}</li> </ul>
D	G06K 2017/0054	<ul> <li>         • {for collecting waste}     </li> </ul>
D	G06K 2017/0058	<ul> <li>         • {for collecting milk}         </li> </ul>
D	G06K 2017/0061	<ul> <li>         + {for processing photo orders}     </li> </ul>
D	G06K 2017/0064	<ul> <li>         + {for fraud control purposes}     </li> </ul>
D	G06K 2017/0067	<ul> <li>         • {for commercial purposes, e.g. transactions, payments, ordering, games}     </li> </ul>
D	G06K 2017/007	<ul> <li></li></ul>
D	G06K 2017/0074	<ul> <li>         {for use in library or the like systems}     </li> </ul>
D	G06K 2017/0077	<ul> <li>         {for checking, inspecting or history purposes, e.g. histograms}     </li> </ul>
D	G06K 2017/008	<ul> <li>         {for use in word processing or the like systems}     </li> </ul>
D	G06K 2017/0083	<ul> <li>+ {Generating labels}</li> </ul>
D	G06K 2017/0087	<ul> <li>         + {for automatic, e.g. process, control purposes}     </li> </ul>
D	G06K 2017/009	<ul> <li>         {for use in medical applications}     </li> </ul>
D	G06K 2017/0093	<ul> <li>         Information-providing systems}     </li> </ul>
D	G06K 2017/0096	• • {Information-recording systems, e.g. data logging}

# Project: RP0403-F (B60Q)

М	B60Q 3/00	Arrangement of lighting devices for vehicle interiors; Lighting devices specially adapted for vehicle interiors
		WARNING
		Group B60Q 3/00 is impacted by reclassification into groups B60Q 3/40, B60Q 3/50, B60Q 3/54, B60Q 3/60, and B60Q 3/70.
		All groups listed in this Warning should be considered in order to perform a complete search.
Μ	B60Q 3/20	<ul> <li>for lighting specific fittings of passenger or driving compartments; mounted on specific fittings of passenger or driving compartments (lighting for dashboards <u>B60Q 3/10</u>)</li> </ul>
		WARNING
		Group B60Q 3/20 is impacted by reclassification into groups B60Q 3/242 and B60Q 3/292.
		All groups listed in this Warning should be considered in order to perform a complete search.
Μ	B60Q 3/242	Safety belts; Body harnesses
		WARNING
		Group B60Q 3/242 is incomplete pending reclassification of documents from group B60Q 3/20. Groups B60Q 3/20 and B60Q 3/242 should be considered in order to perform
		a complete search.
М	B60Q 3/292	Ignition locks
		WARNING
		Group B60Q 3/292 is incomplete pending reclassification of documents from group B60Q 3/20. Groups B60Q 3/20 and B60Q 3/292 should be considered in order to perform
		a complete search.
Μ	B60Q 3/40	<ul> <li>specially adapted for specific vehicle types</li> </ul>
		WARNING
		Group B60Q 3/40 is incomplete pending reclassification of documents from group B60Q 3/00.
		Groups B60Q 3/00 and B60Q 3/40 should be considered in order to perform a complete search.
М	B60Q 3/50	<ul> <li>Mounting arrangements (for compartments other than passenger or driving compartments <u>B60Q 3/30</u>; specially adapted for specific vehicle types <u>B60Q 3/40</u>)</li> </ul>
		WARNING
		Group B60Q 3/50 is incomplete pending reclassification of documents from group B60Q 3/00.
		Groups B60Q 3/00 and B60Q 3/50 should be considered in order to perform a complete search.
Μ	B60Q 3/54	Lighting devices embedded in interior trim, e.g. in roof liners
		WARNING
		Group B60Q 3/54 is incomplete pending reclassification of documents from group B60Q 3/00.
		Groups B60Q 3/00 and B60Q 3/54 should be considered in order to perform a complete search.

Μ	B60Q 3/60	characterised by optical aspects
		WARNING Group B60Q 3/60 is incomplete pending reclassification of documents from group B60Q 3/00. Groups B60Q 3/00 and B60Q 3/60 should be considered in order to perform a complete search.
Μ	B60Q 3/70	characterised by the purpose
		WARNING Group B60Q 3/70 is incomplete pending reclassification of documents from group B60Q 3/00 Groups B60Q 3/00 and B60Q 3/70 should be considered in order to perform a complete search.

# Project: RP0419 (B62J)

D	B62J 2700/00	Bicycle seats and accessories; Alarm, signaling or lighting devices in so far as there is a connection with the construction of the cycle; Luggage carriers, chain guards; other accessories for bicycles <administratively <u="" to="" transferred="">B62J 1/00&gt;</administratively>
D	B62J 2700/63	<ul> <li>To-be-deteled with administrative transfer to parent group</li> <li><administratively <u="" to="" transferred="">B62J 1/00&gt;</administratively></li> </ul>
D	B62J 2700/632	<ul> <li>To-be-deleted with administrative transfer to parent group <administratively <u="" to="" transferred="">B62J 1/00&gt;</administratively></li> </ul>
D	B62J 2700/634	
D	B62J 2700/636	<ul> <li>Signaling devices, e.g. operated by the wheel, connected to the brakes or electric; Constructions of bells specially adapted for cycles; Attachment devices therefor <administratively <u="" to="" transferred="">B62J 3/00&gt;</administratively></li> </ul>
D	B62J 2700/638	<ul> <li>Chain guards as a detachable piece; Devices for cleaning the chain <administratively <u="" to="" transferred="">B62J 13/00&gt;</administratively></li> </ul>

# Project: RP0421 (H01G)

M H01G 11/00 Hybrid capacitors, i.e. capacitors having different positive and negative electrodes; Electric double-layer [EDL] capacitors [EDLCs]; Processes specially adapted for the manufacture thereof or of parts thereof

# <u>NOTE</u>

Group H01G 11/02 takes precedence over groups H01G 11/04 - H01G 11/14

# WARNING

Groups <u>H01G 11/00</u> - <u>H01G 11/86</u> are incomplete pending reclassification of documents from groups <u>H01M 12/00</u> and <u>H01M 12/005</u>. All groups listed in this Warning should be considered in order to perform a complete search.

# Project: RP0421 (H01M)

М	H01M	PROCESSES OR MEANS, e.g. BATTERIES, FOR THE DIRECT CONVERSION OF CHEMICAL ENERGY INTO ELECTRICAL ENERGY (electrochemical processes or apparatus in general C25; semiconductor or other solid state devices for converting light or heat into electrical energy H01L, e.g. H01L 31/00, H01L 35/00, H01L 37/00)
		<u>NOTE</u> This subclass <u>covers</u> galvanic primary or secondary cells or batteries, fuel cells or <mark>batteries<i>stacks</i>.</mark>
		WARNING
		In this subclass non-limiting references (in the sense of paragraph 39 of the Guide to the IPC) may still be displayed in the scheme.
U	H01M 2/00	Constructional details or processes of manufacture of the non-active parts
Μ	H01M 2/02	<ul> <li>Cases, jackets or wrappings (working of plastics or substances in plastic state B29)</li> </ul>
Μ	H01M 4/00	Electrodes <del>(electrodes for electrolytic processes C25, {electrodes for hybrid</del> o <del>r electric double capacitor H01G 11/22})</del>
U	H01M 4/02	<ul> <li>Electrodes composed of or comprising active material</li> </ul>
U	H01M 4/36	<ul> <li>Selection of substances as active materials, active masses, active liquids {(electrode materials of hybrid or double layer capacitors <u>H01G 11/30</u>-<u>H01G 11/50</u>)}</li> </ul>
Μ	H01M 4/58	<ul> <li>of inorganic compounds other than oxides or hydroxides, e.g. sulfides, selenides, tellurides, halogenides or LiCoF<sub>y</sub>; of polyanionic structures, e.g. phosphates, silicates or borates</li> </ul>
U	H01M 4/64	<ul> <li>Carriers or collectors {(current collector for hybrid or electric double layer capacitors <u>H01G 11/66</u>)}</li> </ul>
Μ	H01M 4/82	<ul> <li>• Multi-step processes for manufacturing carriers for lead-acid accumulators (single step processes see the relevant subclasses, e.g. B21D; B22D)</li> </ul>
U	H01M 6/00	Primary cells; Manufacture thereof
		NOTE
		In this group, primary cells are electrochemical generators in which the cell energy is present in chemical form and is not regenerated.
U	H01M 6/30	Deferred-action cells
Μ	H01M 6/36	<ul> <li>containing electrolyte and made operational by physical means, e.g. thermal cells (thermoelectric solid state devices H01L 35/00, H01L 37/00)</li> </ul>
U	H01M 10/00	Secondary cells; Manufacture thereof
		NOTE
		Secondary cells are accumulators receiving and supplying electrical energy by means of reversible electrochemical reactions.
С	H01M 10/04	<ul> <li>Construction or manufacture in general (<u>H01M 10/058, H01M 10/12</u>, <u>H01M 10/28</u>, <u>H01M 10/38</u> take precedence)</li> </ul>
		WARNING
		Group <u>H01M 10/04</u> is impacted by reclassification into group <u>H01M 10/058</u> . Groups <u>H01M 10/04</u> and <u>H01M 10/058</u> should be considered in order to perform a complete search.
U	H01M 10/05	<ul> <li>Accumulators with non-aqueous electrolyte (<u>H01M 10/39</u> takes precedence)</li> </ul>

Е	H01M 10/058	Construction or manufacture
		<u>WARNING</u> Group <u>H01M 10/058</u> is incomplete pending reclassification of documents from group <u>H01M 10/04</u> . Groups <u>H01M 10/04</u> and <u>H01M 10/058</u> should be considered in order to perform a complete search.
U	H01M 10/42	<ul> <li>Methods or arrangements for servicing or maintenance of secondary cells or secondary half-cells (<u>H01M 10/60</u> takes precedence)</li> </ul>
Μ	H01M 10/48	<ul> <li>Accumulators combined with arrangements for measuring, testing or indicating condition, e.g. level or density of the electrolyte <del>({H01M 10/44 takes</del> precedence}; indicating or measuring level of liquid in general G01F 23/00; measuring density G01N, e.g. G01N 9/00; measuring electric variables G01R)</li> </ul>
С	H01M 12/00	Hybrid cells; Manufacture thereof (hybrid capacitors <u>H01G 11/00</u> )
		NOTE
		1. This group <u>does not cover</u> hybrid cells comprising capacitor electrodes and battery electrodes, which are covered by group <u>H01G 11/00</u>
		1. 2. Hybrid In this group, hybrid cells are electrochemical generators having two different types of half-cells, the half-cell being an electrode-electrolyte combination of either a primary, a secondary or a fuel cell.
		WARNING
		Group <u>H01M 12/00</u> is impacted by reclassification into group <u>H01G 11/00</u> – H01G 11/86.
		All groups listed in this Warning should be considered in order to perform a complete search.
F	H01M 12/005 (Frozen)	<ul> <li>{composed of a half-cell of the capacitor type and of a half-cell of the primary or secondary battery type (hybrid capacitors <u>H01G 9/155</u>)}</li> </ul>
		WARNING
		Group <u>H01M 12/005</u> is no longer used for the classification of documents as of January 1, 2019.
		The content of this groups is being reclassified into <u>H01G 11/00</u> - <u>H01G 11/86</u> . All groups listed in this Warning should be considered in order to perform a complete search.
Μ	H01M 12/04	<ul> <li>composed of a half-cell of the fuel-cell type and of a half-cell of the primary-cell type (methods or arrangements for servicing or maintenance H01M 6/50)</li> </ul>
Μ	H01M 12/08	<ul> <li>composed of a half-cell of a fuel-cell type and a half-cell of the secondary-cell type (methods or arrangements for servicing or maintenance, e.g. for charging, H01M 10/42)</li> </ul>
М	H01M 14/00	Electrochemical current or voltage generators not provided for in groups H01M 6/00 - H01M 12/00; Manufacture thereof
		NOTE
		<ul> <li>This group <u>does not cover</u> solar cells, photocells, photoelectrochemical cells or photovoltaic cells, which are covered by the following groups:</li> <li>semiconductor devices sensitive to light and adapted for the conversion of the energy of such radiation into electrical energy are covered by group <u>H01L 31/00;</u></li> <li>solid-state devices using organic materials as active part specially adapted</li> </ul>
		<ul> <li>for sensing light and adapted for the conversion of the energy of such radiation into electrical energy are covered by group <u>H01L 51/42;</u></li> <li>electrolytic light-sensitive devices, e.g. dye-sensitised solar cells, are covered by group <u>H01G 9/20;</u></li> </ul>

• photovoltaic modules structurally associated with energy storage means, e.g. batteries, are covered by group <u>H02S 40/38</u>.

# Project: RP0429 (B29C)

U	B29C 39/00	Shaping by casting, i.e. introducing the moulding material into a mould or between confining surfaces without significant moulding pressure; Apparatus therefor ( <u>B29C 41/00</u> takes precedence)
U	B29C 39/02	<ul> <li>for making articles of definite length, i.e. discrete articles</li> </ul>
М	B29C 39/021	<ul> <li>• {by casting in several steps}</li> </ul>
		<u>WARNING</u> Group <u>B29C 39/021</u> is incomplete pending reclassification of documents from group <u>B29D 2009/00</u> . Groups <u>B29D 2009/00</u> and <u>B29C 39/021</u> should be considered in order to perform a complete search.
М	B29C 39/023	
		<u>WARNING</u> Group <u>B29C 39/023</u> is incomplete pending reclassification of documents from group <u>B29D 2009/00</u> . Groups <u>B29D 2009/00</u> and <u>B29C 39/023</u> should be considered in order to perform a complete search.
М	B29C 39/025	<ul> <li>• {for making multilayered articles}</li> </ul>
		<u>WARNING</u> Group <u>B29C 39/025</u> is incomplete pending reclassification of documents from group <u>B29D 2009/00</u> . Groups <u>B29D 2009/00</u> and <u>B29C 39/025</u> should be considered in order to perform a complete search.
M B	B29C 39/12	<ul> <li>Making multilayered or multicoloured articles {(<u>B29C 39/021</u> takes precedence)}</li> </ul>
		<u>WARNING</u> Group <u>B29C 39/12</u> is incomplete pending reclassification of documents from group <u>B29D 2009/00</u> . Groups <u>B29D 2009/00</u> and <u>B29C 39/12</u> should be considered in order to perform a complete search.
М	B29C 39/123	• • {Making multilayered articles}
		WARNING Group <u>B29C 39/123</u> is incomplete pending reclassification of documents from group <u>B29D 2009/00</u> . Groups <u>B29D 2009/00</u> and <u>B29C 39/123</u> should be considered in order to perform a complete search.
Μ	B29C 39/126	<ul> <li>• {by casting between two preformed layers, e.g. deformable layers (between two glass layers <u>B32B 17/10917</u>)}</li> </ul>
		<u>WARNING</u> Group <u>B29C 39/126</u> is incomplete pending reclassification of documents from group <u>B29D 2009/00</u> . Groups <u>B29D 2009/00</u> and <u>B29C 39/126</u> should be considered in order to perform a complete search.

# Project: RP0429 (B29D)

F	B29D 2009/00 (Frozen)	IPC7 Producing layered products
	(110261)	WARNING Group <u>B29D 2009/00</u> is no longer used for classification of documents as January 1, 2019. The content of this group is being reclassified into groups <u>B29C 39/021</u> , <u>B29C 39/023, B29C 39/025, B29C 39/12, B29C 39/123, B29C 39/126, B32B 3/00</u> and <u>B32B 33/00</u> . All groups listed in this Warning should be considered in order to perform a complete search.
Pro	oject: RP0429 (B32E	3)
М	B32B 3/00	Layered products comprising a layer with external or internal discontinuities or unevennesses, or a layer of non-planar form {(fibrous or filamentary layers <u>B32B 5/02;</u> particulate layers <u>B32B 5/16;</u> foamed layers <u>B32B 5/18</u> ); Layered products having particular features of form (receptacles or tubular products <u>B32B 1/00</u> )}
		<u>WARNING</u> Group <u>B32B 3/00</u> is incomplete pending reclassification of documents from group <u>B29D 2009/00</u> . Groups <u>B29D 2009/00</u> and <u>B32B 3/00</u> should be considered in order to perform a complete search.
U	B32B 17/00	Layered products essentially comprising sheet glass, or glass, slag, or like fibres
U	B32B 17/06	<ul> <li>comprising glass as the main or only constituent of a layer, next to another layer of a specific {material (coating on glass <u>C03C 17/00</u>; safety glazings <u>B32B 17/08</u> or <u>B32B 17/10</u>; fire protective glazing with intumescent layers <u>B32B 17/069</u>)}</li> </ul>
U	B32B 17/10	<ul> <li>of synthetic resin {(producing optical elements from plastics <u>B29D 11/00;</u> constructional form of optical elements <u>G02B</u>)}</li> <li>NOTES</li> </ul>
		1. In this group a layer of organic glass is not considered as a glass layer but as a synthetic resin layer];
		2. [N: Inventions related to safety glazings (laminated glazings) are classified in all appropriate subgroups <u>B32B 17/10009</u> - <u>B32B 17/10807</u> , whereby transparent polymeric layers other than the interlayer ( <u>B32B 17/1055</u> ) are classified using indexing codes
U	B32B 17/10807	<ul> <li>• • {Making layered products containing glass and synthetic resin layers; apparatus therefor}</li> </ul>
U	B32B 17/10899	• • • {by introducing interlayers of synthetic resin}
U	B32B 17/10908	•••• {in liquid form}
	B32B 17/10917	<ul> <li> {between two pre-positioned glass layers (between preformed layers in general B29C 39/126; spacing elements for window units comprising two or more parallel panes E06B 3/663)}</li> </ul>

Μ	B32B 33/00	Layered products characterised by particular properties or particular
		surface features, e.g. particular surface coatings (surface unevennesses
		or non-uniformities <b>B32B 3/00</b> ); Layered products designed for particular
		purposes not covered by another single class

# WARNING

Group <u>B32B 33/00</u> is incomplete pending reclassification of documents from group <u>B29D 2009/00</u>. Groups <u>B29D 2009/00</u> and <u>B32B 33/00</u> should be considered in order to perform a complete search.

# Project: RP0449 (A61H)

М	A61H 9/00	Pneumatic or hydraulic massage <del>{, e.g. sprays (A61H 13/00 takes</del> precedence; underwater massage, spraying systems acting on a body or body part immersed in water A61H 33/00, A61H 35/00; brushes with fluid supply A46B 11/00; nozzles per se B05B)}
Μ	A61H 9/0007	<ul> <li>{Pulsating (percussion massage A61H 23/006; nozzles for pulsating streams in bathing devices A61H 33/6057)}</li> </ul>
С	A61H 9/0021	<ul> <li>{Hand-held devices for spraying and removing liquid while moved on the skinHydraulic massage}</li> </ul>
		<u>WARNING</u> Group <u>A61H 9/0021</u> is incomplete pending reclassification of documents from group <u>A61H 9/0028</u> . Group <u>A61H 9/0021</u> is also impacted by reclassification into group
		<u>A61H 9/0028</u> . Groups <u>A61H 9/0021</u> and <u>A61H 9/0028</u> should be considered in order to perform a complete search.
С	A61H 9/0028	<ul> <li>{Hydraulic massage Hand-held devices for spraying and removing liquid while moved on the skin}</li> </ul>
		WARNING Group <u>A61H 9/0028</u> is incomplete pending reclassification of documents from group <u>A61H 9/0021</u> . Group <u>A61H 9/0028</u> is also impacted by reclassification into group <u>A61H 9/0021</u> . Groups <u>A61H 9/0028</u> and <u>A61H 9/0021</u> should be considered in order to perform a complete search.
U	A61H 9/005	{Pneumatic massage}
М	A61H 9/0078	<ul> <li>{Withwith intermittent or alternately inflated bladders or cuffs (beds with inflatable chambers A61G 7/05769mattresses for preventing bed-sores with alternated pressurized chambers A61G 7/05776)}</li> </ul>
U	A61H 13/00	Gum massage
Μ	A61H 13/005	<ul> <li>{Hydraulic gum massage (instruments or machines for rinsing the teeth A61C 17/02)}</li> </ul>

# Project: RP0454 (G21C)

U	G21C 1/00	Reactor types
U	G21C 1/04	<ul> <li>Thermal reactors {; Epithermal reactors}</li> </ul>
U	G21C 1/06	Heterogeneous reactors, i.e. in which fuel and moderator are separated
U	G21C 1/08	<ul> <li>moderator being highly pressurised, e.g. boiling water reactor, integral super-heat reactor, pressurised water reactor (<u>G21C 1/22</u> takes precedence)</li> </ul>

D	G21C 2001/088	<ul> <li> <ul> <li></li></ul></li></ul>
Ν	G21C 1/088	· · · {Inherently safe boiling water reactors}
U	G21C 3/00	Reactor fuel elements and their assemblies; Selection of substances for use as reactor fuel elements
U	G21C 3/02	<ul> <li>Fuel elements {(manufacture thereof <u>G21C 21/02)</u>}</li> </ul>
U	G21C 3/04	Constructional details
D	G21C 2003/045	<ul> <li>         • • {Pellets}         <ul> <li><administratively <u="" to="" transferred="">G21C 3/045&gt;</administratively></li> </ul> </li> </ul>
Ν	G21C 3/045	• • • {Pellets}
D	G21C 2003/047	<ul> <li>• • {Pellet-clad interaction}</li> <li><administratively <u="" to="" transferred="">G21C 3/047&gt;</administratively></li> </ul>
Ν	G21C 3/047	· · · {Pellet-clad interaction}
D	G21C 2003/048	<ul> <li>• • • {Shape of pellets} <administratively <u="" to="" transferred="">G21C 3/048&gt;</administratively></li> </ul>
Ν	G21C 3/048	· · · {Shape of pellets}
U	G21C 3/30	<ul> <li>Assemblies of a number of fuel elements in the form of a rigid unit</li> </ul>
U	G21C 3/32	<ul> <li>Bundles of parallel pin-, rod-, or tube-shaped fuel elements</li> </ul>
U	G21C 3/322	<ul> <li>Means to influence the coolant flow through or around the bundles</li> </ul>
D	G21C 2003/3225	<ul> <li>••• {by waterrods}</li> <li><administratively 3="" 3225="" g21c="" to="" transferred=""></administratively></li> </ul>
Ν	G21C 3/3225	••••{by waterrods}
U	G21C 3/326	<ul> <li>comprising fuel elements of different composition; comprising, in addition to the fuel elements, other pin-, rod-, or tube-shaped elements, e.g. control rods, grid support rods, fertile rods, poison rods or dummy rods</li> </ul>
D	G21C 2003/3262	<ul> <li> <ul> <li></li></ul></li></ul>
Ν	G21C 3/3262	•••• {Enrichment distribution in zones}
D	G21C 2003/3265	<ul> <li> <ul> <li></li></ul></li></ul>
Ν	G21C 3/3265	•••• {Radial distribution}
D	G21C 2003/3267	· · · · · {Axial distribution} <administratively 3="" 3267="" g21c="" to="" transferred=""></administratively>
Ν	G21C 3/3267	•••• {Axial distribution}
U	G21C 3/34	· · · Spacer grids
D	G21C 2003/3432	<ul> <li>         •          •          •</li></ul>
Ν	G21C 3/3432	•••• {Grids designed to influence the coolant, i.e. coolant mixing function}
U	G21C 13/00	Pressure vessels; Containment vessels; Containment in general (for chemical or physical processes <u>B01J 3/00;</u> pressure vessels in general F16J 12/00)
U	G21C 13/02	Details
U	G21C 13/06	<ul> <li>Sealing-plugs (for pressure vessels in general <u>F16J 13/00</u>)</li> </ul>
D	G21C 2013/063	• • {Seals for closures or for rotatable closures}
		<administratively 063="" 13="" g21c="" to="" transferred=""></administratively>

U	G21C 15/00	Cooling arrangements within the pressure vessel containing the core; Selection of specific coolants
U	G21C 15/18	<ul> <li>Emergency cooling arrangements; Removing shut-down heat</li> </ul>
U	G21C 15/182	<ul> <li>• {comprising powered means, e.g. pumps}</li> </ul>
D	G21C 2015/185	<ul> <li>+ {using energy stored in reactor system}</li> <li><administratively <u="" to="" transferred="">G21C 15/185&gt;</administratively></li> </ul>
Ν	G21C 15/185	<ul> <li>• {using energy stored in reactor system}</li> </ul>
D	G21C 2015/187	<ul> <li>+ {using energy from the electric grid} <administratively <u="" to="" transferred="">G21C 15/187&gt;</administratively></li> </ul>
Ν	G21C 15/187	• • {using energy from the electric grid}

# Project: RP0454 (G21D)

М	G21D	NUCLEAR POWER PLANT (electric or magnetic analogue computers, e.g. simulators, for nuclear physics G06G 7/54)
U	G21D 3/00	Control of nuclear power plant (control of nuclear reaction in general <u>G21C 7/00</u> )
U	G21D 3/001	{Computer implemented control}
D	G21D 2003/002	<ul> <li>+ {Core design; Core simulations} <administratively <u="" to="" transferred="">G21D 3/002&gt;</administratively></li> </ul>
Ν	G21D 3/002	<ul> <li>• {Core design; core simulations; core optimisation}</li> </ul>
D	G21D 2003/004	<ul> <li>+ {Fuel shuffle simulations} <administratively <u="" to="" transferred="">G21D 3/004&gt;</administratively></li> </ul>
Ν	G21D 3/004	<ul> <li>• {Fuel shuffle simulation; fuel shuffle optimisation}</li> </ul>
D	G21D 2003/005	<ul> <li>+ {Thermo-hydraulic simulations} <administratively <u="" to="" transferred="">G21D 3/005&gt;</administratively></li> </ul>
Ν	G21D 3/005	<ul> <li>{Thermo-hydraulic simulations}</li> </ul>
D	G21D 2003/007	• {Expert systems} <administratively 007="" 3="" g21d="" to="" transferred=""></administratively>
Ν	G21D 3/007	{Expert systems}
D	G21D 2010/00	Protection of plant or environment from mutual hazards : means for monitoring the effects of plant or environment upon each other <administratively 00="" 1="" g21d="" to="" transferred=""></administratively>

# Project: RP0454 (G21F)

Μ	G21F	PROTECTION AGAINST X-RADIATION, GAMMA RADIATION, CORPUSCULAR RADIATION OR PARTICLE BOMBARDMENT; TREATING RADIOACTIVELY CONTAMINATED MATERIAL; DECONTAMINATION ARRANGEMENTS THEREFOR (radiation protection by pharmaceutical means <u>A61K 8/00, A61Q 17/04</u> ; in cosmonautic vehicles <u>B64GB64G 1/54</u> ; combined with a reactor <u>G21C 11/00</u> ; combined with X-ray tubes <u>H01J 35/16</u> ; combined with X-ray apparatus <u>H05G 1/02</u> )
		WARNING
		In this subclass non-limiting references (in the sense of paragraph 39 of the Guide to the IPC) may still be displayed in the scheme.
U	G21F 5/00	Transportable or portable shielded containers
U	G21F 5/06	<ul> <li>Details of, or accessories to, the containers</li> </ul>
U	G21F 5/12	<ul> <li>Closures for containers; Sealing arrangements</li> </ul>

D	G21F 2005/125	<ul> <li>         •          •          •</li></ul>
Ν	G21F 5/125	• • • {Means to monitor or detect the leak-tightness of the closure}
Pro	ject: RP0454 (G21Y	)
D	G21Y	INDEXING SCHEME RELATING TO NUCLEAR REACTORS, POWER PLANTS AND EXPLOSIVES, TO PROTECTION AGAINST RADIATION, TO THE TREATMENT OF RADIOACTIVELY CONTAMINATED MATERIAL, TO APPLICATIONS OF RADIOACTIVE SOURCES AND TO THE UTILISATION OF COSMIC RADIATION
		NOTE This subclass constitutes an internal scheme for indexing only, relating to problems (G21Y 2002/00) or solutions (G21Y 2004/00).
D	G21Y 2002/00	PROBLEM
D	G21Y 2002/10	Shortcomings in materials
D	G21Y 2002/101	• <del>Wear</del>
D	G21Y 2002/102	Embrittlement
D	G21Y 2002/103	Corrosion
D	G21Y 2002/104	<ul> <li>Inadequate performance, deformation, cracks, rupture</li> </ul>
D	G21Y 2002/20	Operational shortcomings
D	G21Y 2002/201	Inadequate efficiency
D	G21Y 2002/202	Slowness of a process or function
D	G21Y 2002/203	Lack of manoeuvrability
D	G21Y 2002/204	<ul> <li>Imprecision (measuring, positioning, guiding)</li> </ul>
D	G21Y 2002/205	Lack of Automation
D	G21Y 2002/206	<ul> <li>Insufficient reliability (durability)</li> </ul>
D	G21Y 2002/207	Abnormal conditions
D	G21Y 2002/208	<del>Risk of human error</del>
D	G21Y 2002/30	<ul> <li>Design and construction shortcomings</li> </ul>
D	G21Y 2002/301	<ul> <li>Heavy, bulky, cumbersome constructions, shape</li> </ul>
D	G21Y 2002/302	<ul> <li>Fabricating, assembling, replacing, dismantling</li> </ul>
D	G21Y 2002/303	<del>Risk of damage</del>
D	G21Y 2002/304	<ul> <li>Lack of versatility, compatibility</li> </ul>
D	G21Y 2002/305	Inadequate transportation
D	G21Y 2002/306	Non-compliance with regulations
D	G21Y 2002/40	<ul> <li>Maintenance shortcomings (Servicing)</li> </ul>
D	G21Y 2002/401	Inconvenient access
D	G21Y 2002/402	<ul> <li>Complicated assembling, disassembling, replacing, dismantling</li> </ul>
D	G21Y 2002/50	<ul> <li>Safety, security and safeguard shortcomings</li> </ul>
D	G21Y 2002/501	Radiation exposure
D	G21Y 2002/502	Lack of monitoring
D	G21Y 2002/60	Disposal shortcomings
D	G21Y 2002/601	Excess of irradiated inventory
D	G21Y 2004/00	SOLUTION

Compositions

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- G21Y 2004/101 Inherent characteristics G21Y 2004/20 Obtaining improvement by treatment G21Y 2004/201 Heat treatment G21Y 2004/202 Cold working G21Y 2004/30 Improving a design G21Y 2004/301 - Joints, fixing devices G21Y 2004/302 G21Y 2004/303 G21Y 2004/304 G21Y 2004/305 G21Y 2004/40 Improving a procedure G21Y 2004/401 Automation G21Y 2004/402 Inherent action G21Y 2004/403 Tuning, adjustment G21Y 2004/50 Repair, replacement G21Y 2004/501 Improving a tool G21Y 2004/502 Remote operation G21Y 2004/503 in factory G21Y 2004/504 • on site
  - · Fluid mechanics, thermodynamics
    - · Protection cover, catching devices
  - · Redundancy, adding material or parts
  - · Reducing size, material or number of parts

- · Reusing items, recycling Discarding, Repository
- D G21Y 2004/601

G10B 1/06

G10B 1/08

Μ

Μ

G21Y 2004/60

# Project: RP0534 (G10B)

М	G10B	ORGANS; ORGANS, HARMONIUMS OR LIKE SIMILAR WIND-ACTUATED MUSICAL INSTRUMENTS WITH ASSOCIATED BLOWING APPARATUS (mouth organs G10D 7/12; accordions-, concertinas or the like or keyboards therefor G10D 11/00; aspects of automatic actuation G10F 1/12; automatic wind instruments G10F 1/12; combinations of microphones, pick-ups or amplifiers with musical instruments G10H; electronic organs G10H 7/00)
		<u>NOTES</u>
		<ol> <li>In this subclass, multi-aspect classification is applied, so that subject matter characterised by aspects covered by more than one of its groups should be classified in each of those groups.</li> </ol>
		2. In this subclass, the type of instrument is classified in group <u>G10B 1/00</u> , while details or accessories thereof are classified in group <u>G10B 3/00</u> .
		WARNING
		In this subclass non-limiting references (in the sense of paragraph 39 of the Guide to the IPC) may still be displayed in the scheme.
М	G10B 1/00	General design of organs, harmoniums or similar wind musical instruments with associated blowing apparatus
М	G10B 1/02	<ul> <li>of organs, <i>i.e. pipe organs</i></li> </ul>
М	G10B 1/04	<ul> <li>electrically operated with electric action</li> </ul>

- fluid operated with pneumatic action
- · of harmoniums, *i.e. reed organs*

C G10B	G10B 3/00	Details or accessories
		<u>WARNING</u> Group <u>G10B 3/00</u> is impacted by reclassification into group <u>G10B 3/24</u> . Groups <u>G10B 3/00</u> and <u>G10B 3/24</u> should be considered in order to perform a complete search.
М	G10B 3/02	<ul> <li>Blowers (compressors, blowers, per se F04)</li> </ul>
Μ	G10B 3/10	<ul> <li>Actions, e.g. key actions, couplers or stops</li> </ul>
М	G10B 3/12	<ul> <li>Keys or keyboards; Manuals (keyboards for musical instruments in general G10C 3/12)</li> </ul>
М	G10B 3/22	<ul> <li>Details peculiar to electrically-operated of electric action systems for organs, e.g. contacts therein</li> </ul>
Ν	G10B 3/24	• Cases
		<u>WARNING</u> Group <u>G10B 3/24</u> is incomplete pending reclassification of documents from group <u>G10B 3/00</u> . Groups <u>G10B 3/00</u> and <u>G10B 3/24</u> should be considered in order to perform a complete search.

# Project: RP0535 (A61K)

U A61K 33/00	Medicinal preparations containing inorganic active ingredients
A61K 33/24	<ul> <li>Heavy metals; Compounds thereof</li> </ul>
	<u>WARNING</u> Group <u>A61K 33/24</u> is impacted by reclassification into groups <u>A61K 33/241,</u> <u>A61K 33/242, A61K 33/243, A61K 33/244</u> and <u>A61K 51/00</u> - <u>A61K 51/1296</u> . All groups listed in this Warning should be considered in order to perform a complete search.
A61K 33/245	<ul> <li></li></ul>
A61K 51/00	Preparations containing radioactive substances for use in therapy or testing in vivo
	<u>WARNING</u> Groups <u>A61K 51/00</u> - <u>A61K 51/1296</u> are incomplete pending reclassification of documents from group <u>A61K 33/24</u> . All groups listed in this Warning should be considered in order to perform a complete search.

# Project: RP0536 (F02M)

U F02M 37/00 Apparatus or systems for feeding liquid fuel from storage containers to carburettors or fuel-injection apparatus (F02M 69/00 takes precedence {; fuel injection apparatus characterised by their conduits and venting means F02M 55/00; fuel injection apparatus having a common rail F02M 63/0225; control of fuel feeding F02D 33/003}; feeding liquid fuel to combustion apparatus, in general F23K 5/00; fuel supply to apparatus for generating combustion products of high pressure or high velocity F23R 3/28); Arrangements for purifying liquid fuel specially adapted for, or arranged on, internal-combustion engines (separating apparatus, filters per se B01D; centrifuges B04B)

С	F02M 37/22	<ul> <li>Arrangements for purifying liquid fuel specially adapted for, or arranged on, internal-combustion engines, e.g. arrangementarrangements in the feeding system</li> </ul>
		<u>WARNING</u> Group <u>F02M 37/22</u> is impacted by reclassification into groups <u>F02M 37/24</u> , F02M 37/26, F02M 37/28, F02M 37/30, F02M 37/32, F02M 37/34, F02M 37/36, F02M 37/38, F02M 37/40, F02M 37/42, F02M 37/44, F02M 37/46, F02M 37/48, F02M 37/50, F02M 37/52, and <u>F02M 37/54</u> . All groups listed in this Warning should be considered in order to perform a complete search.
D	F02M 37/221	<ul> <li>+ {having water separator means} <administratively 24="" 37="" f02m="" to="" transferred=""></administratively></li> </ul>
D	F02M 37/223	<ul> <li>{having heating means (F02M 37/221 takes precedence)}</li> <li><administratively 30="" 37="" f02m="" to="" transferred=""></administratively></li> </ul>
D	F02M 2037/225	<ul> <li>+ {having pump means in the filter housing} <administratively 37="" 44="" f02m="" inv="" to="" transferred=""></administratively></li> </ul>
D	F02M 2037/226	<ul> <li>+ {having pressure regulator means in the filter housing} <administratively <u="" to="" transferred="">F02M 37/46 INV&gt;</administratively></li> </ul>
D	F02M 2037/228	<ul> <li>+ {Fuel tank strainers}</li> <li><administratively 37="" 50="" f02m="" inv="" to="" transferred=""></administratively></li> </ul>
Q	F02M 37/24	<ul> <li>characterised by water separating means         <u>WARNING</u>         Group <u>F02M 37/24</u> is impacted by reclassification into groups <u>F02M 37/24</u> –         <u>F02M 37/30</u>.         All groups listed above should be considered in order to perform a complete search.</li> </ul>
N	F02M 37/26	<ul> <li>with water detection means <u>WARNING</u> Group F02M 37/26 is incomplete pending reclassification of documents from groups F02M 37/22 and F02M 37/24. Groups F02M 37/22, F02M 37/24, and F02M 37/26 should be considered in order to perform a complete search.</li> </ul>
N	F02M 37/28	<ul> <li>with means activated by the presence of water, e.g. alarms or means for automatic drainage         <u>WARNING</u>         Group F02M 37/28 is incomplete pending reclassification of documents from groups F02M 37/22 and F02M 37/24.         Groups F02M 37/22, F02M 37/24, and F02M 37/28 should be considered in order to perform a complete search.     </li> </ul>
Ν	F02M 37/30	<ul> <li>characterised by heating means <u>WARNING</u> Group <u>F02M 37/30</u> is incomplete pending reclassification of documents from groups <u>F02M 37/22</u> and <u>F02M 37/24</u>. Groups <u>F02M 37/22</u>, <u>F02M 37/24</u>, and <u>F02M 37/30</u> should be considered in order to perform a complete search.</li> </ul>
Ν	F02M 37/32	<ul> <li>characterised by filters or filter arrangements</li> <li><u>WARNING</u></li> <li>Group <u>F02M 37/32</u> is incomplete pending reclassification of documents from group <u>F02M 37/22</u>.</li> </ul>

		Groups <u>F02M 37/22</u> and <u>F02M 37/32</u> should be considered in order to perform a complete search.
Ν	F02M 37/34	<ul> <li>by the filter structure, e.g. honeycomb, mesh or fibrous     <u>WARNING</u>     Group F02M 37/34 is incomplete pending reclassification of documents     from group F02M 37/22.     Groups F02M 37/22 and F02M 37/34 should be considered in order to     perform a complete search.</li> </ul>
Ν	F02M 37/36	<ul> <li>with bypass means         <u>WARNING</u>         Group F02M 37/36 is incomplete pending reclassification of documents         from group F02M 37/22.         Groups F02M 37/22 and F02M 37/36 should be considered in order to         perform a complete search.</li> </ul>
Ν	F02M 37/38	<ul> <li>with regeneration means         <u>WARNING</u>         Group F02M 37/38 is incomplete pending reclassification of documents         from group F02M 37/22.         Groups F02M 37/22 and F02M 37/38 should be considered in order to         perform a complete search.</li> </ul>
Ν	F02M 37/40	<ul> <li>with means for detection of clogging <u>WARNING</u> Group F02M 37/40 is incomplete pending reclassification of documents from group F02M 37/22. Groups F02M 37/22 and F02M 37/40 should be considered in order to perform a complete search.</li> </ul>
Ν	F02M 37/42	<ul> <li>Installation or removal of filters <u>WARNING</u> Group F02M 37/42 is incomplete pending reclassification of documents from group F02M 37/22. Groups F02M 37/22 and F02M 37/42 should be considered in order to perform a complete search.</li> </ul>
Ν	F02M 37/44	<ul> <li>Filters structurally associated with pumps <u>WARNING</u> Group F02M 37/44 is incomplete pending reclassification of documents from group F02M 37/22. Groups F02M 37/22 and F02M 37/44 should be considered in order to perform a complete search.</li> </ul>
Ν	F02M 37/46	<ul> <li>Filters structurally associated with pressure regulators         <u>WARNING</u>         Group F02M 37/46 is incomplete pending reclassification of documents         from group F02M 37/22.         Groups F02M 37/22 and F02M 37/46 should be considered in order to         perform a complete search.     </li> </ul>

Ν	F02M 37/48	<ul> <li>Filters structurally associated with fuel valves</li> </ul>
		<u>WARNING</u> Group <u>F02M 37/48</u> is incomplete pending reclassification of documents from group <u>F02M 37/22</u> . Groups <u>F02M 37/22</u> and <u>F02M 37/48</u> should be considered in order to perform a complete search.
Ν	F02M 37/50	
		WARNING
		Group $F02M$ 37/50 is incomplete pending reclassification of documents from group $F02M$ 37/22.
		Groups <u>F02M 37/22</u> and <u>F02M 37/50</u> should be considered in order to perform a complete search.
Ν	F02M 37/52	• • • using magnetic means
		<u>WARNING</u>
		Group <u>F02M 37/52</u> is incomplete pending reclassification of documents from group <u>F02M 37/22</u> .
		Groups $FO2M 37/22$ and $FO2M 37/52$ should be considered in order to perform a complete search.
Ν	F02M 37/54	<ul> <li>characterised by air purging means (having priming pumps <u>F02M 37/16</u>)</li> </ul>
		WARNING
		Group <u>F02M 37/54</u> is incomplete pending reclassification of documents from group F02M 37/22.
		Groups <u>F02M 37/22</u> and <u>F02M 37/54</u> should be considered in order to perform a complete search.

# Project: RP0537 (F15B)

M F15B

SYSTEMS ACTING BY MEANS OF FLUIDS IN GENERAL; FLUID-PRESSURE ACTUATORS, e.g. SERVO-MOTORSSERVOMOTORS; DETAILS OF FLUID-PRESSURE SYSTEMS, NOT OTHERWISE PROVIDED FOR ({hydraulically or pneumatically operated lifting devices for soil-working machines A01B 63/10; hydraulic drawing presses B21D; hydraulic or pneumatic manipulators B25J; hydraulic or pneumatic tipping devices for vehicles B60P 1/00; hydraulic or pneumatic remote control for railway signals B61L 7/04; hydraulic or pneumatic mine supports E21D 15/44}; motors, turbines, compressors, blowers, pumps F01 - F04; {fluid signal amplifiers, relays F15C} ; fluid dynamics F15D; fluid clutches or brakes F16D; fluid springs F16F; fluid gearing F16H; pistons, cylinders packing F16J; valves, taps, cocks, actuating-floats F16K; safety valves with auxiliary fluid operation of the main valve F16K 17/10; fluid-operating means for valves F16K 31/12; pipes, pipe joints F16L; lubricating F16N)

# <u>NOTE</u>

In this subclass, the following terms are used with the meaning stated:

- "Telemotor" means a system or device in which a substantially constant amount of fluid is trapped between an input member and an output member to act as a fluid link;
- "Servomotor" means a fluid-pressure actuator, e.g. a piston and cylinder, directly controlled by a valve or other device which is responsive to operation of an initial controlling member; "Servomotor" does not cover

a telemotor. The initial controlling member may be adjacent to the servomotor or at a distance, and may be, for example a hand lever.

		WARNING
		In this subclass non-limiting references (in the sense of paragraph 39 of the Guide to the IPC) may still be displayed in the scheme.
U	F15B 1/00	Installations or systems with accumulators; Supply reservoir or sump assemblies
Μ	F15B 1/02	<ul> <li>Installations or systems with accumulators ({energy recuperation means F15B 21/14}; devices damping pulsations or vibrations for fluids for use in, or connection with, pipes or pipe systems F16L 55/04)</li> </ul>
Μ	F15B 1/027	<ul> <li>having accumulator charging devices (control of fluid pressure in general G05D 16/00)</li> </ul>
М	F15B 1/04	<ul> <li>Accumulators (connection of valves to inflatable elastic bodies B60C 29/00)</li> </ul>
U	F15B 1/08	<ul> <li>using a gas cushion; Gas charging devices; Indicators or floats therefor</li> </ul>
U	F15B 1/10	• • • • with flexible separating means
Μ	F15B 1/12	<ul> <li>• • • • attached at their periphery (F15B 1/16 takes precedence/lexible separating means in the form of a tube F15B 1/16)</li> </ul>
U	F15B 1/26	Supply reservoir or sump assemblies
М	F15B 1/265	<ul> <li>• {with pressurised main reservoir (systems with accumulators F15B 1/02)}</li> </ul>
М	F15B 5/00	Transducers converting variations of physical quantities, e.g. expressed by variations in positions of members, into fluid-pressure variations or <u>vice versa</u> ; Varying fluid pressure as a function of variations of a plurality of fluid pressures or variations of other quantities ( <u>F15B 9/00</u> takes precedence; for measuring or controlling G01, G05)
М	F15B 7/00	Systems in which the movement produced is definitely related to the output of a volumetric pump; Telemotors <del>{(for control in motor vehicles B60K; in ships B63H 25/00; in aircraft B64C 13/00; combinations of telemotor and servomotor systems F15B 17/00)}</del>
<b>м</b> м	F15B 7/00 F15B 7/001	of a volumetric pump; Telemotors <del>{(for control in motor vehicles B60K; in</del>
		of a volumetric pump; Telemotors <del>{(for control in motor vehicles B60K; in ships B63H 25/00; in aircraft B64C 13/00; combinations of telemotor and servomotor systems F15B 17/00)}</del> • { <del>with <i>With</i> multiple inputs-, <i>e.g. for dual control</i>}(input units F15B 7/08, e.g. for</del>
М	F15B 7/001	of a volumetric pump; Telemotors <del>{(for control in motor vehicles B60K; in ships B63H 25/00; in aircraft B64C 13/00; combinations of telemotor and servomotor systems F15B 17/00)}</del> • { <del>with <i>With</i> multiple inputs-, <i>e.g. for dual control</i>}(input units F15B 7/08, e.g. for dual control}}</del>
M	F15B 7/001 F15B 7/005	<ul> <li>of a volumetric pump; Telemotors -{(for control in motor vehicles B60K; in ships B63H 25/00; in aircraft B64C 13/00; combinations of telemotor and servomotor systems F15B 17/00)}</li> <li>{with With multiple inputs-, e.g. for dual control}(input units F15B 7/08, e.g. for dual control})</li> <li>{with With rotary or crank input (input units F15B 7/08)}</li> <li>in/n which the ratio between pump stroke and motor stroke varies with the resistance against the motor (in brake-actuating systems for motor vehicles</li> </ul>
M M M	F15B 7/001 F15B 7/005 F15B 7/04	<ul> <li>of a volumetric pump; Telemotors {(for control in motor vehicles B60K; in ships B63H 25/00; in aircraft B64C 13/00; combinations of telemotor and servomotor systems F15B 17/00)}</li> <li>{with With multiple inputs-, e.g. for dual control}(input units F15B 7/08, e.g. for dual control)}</li> <li>{with With rotary or crank input (input units F15B 7/08)}</li> <li>{with With rotary or crank input (input units F15B 7/08)}</li> <li>in/n which the ratio between pump stroke and motor stroke varies with the resistance against the motor (in brake-actuating systems for motor vehicles B60T)</li> </ul>
M M U	F15B 7/001 F15B 7/005 F15B 7/04 F15B 7/06	<ul> <li>of a volumetric pump; Telemotors {(for control in motor vehicles B60K; in ships B63H 25/00; in aircraft B64C 13/00; combinations of telemotor and servomotor systems F15B 17/00)}</li> <li>{with With multiple inputs-, e.g. for dual control}(input units F15B 7/08, e.g. for dual control)}</li> <li>{with With rotary or crank input (input units F15B 7/08)}</li> <li>{with With rotary or crank input (input units F15B 7/08)}</li> <li>in/n which the ratio between pump stroke and motor stroke varies with the resistance against the motor (in brake-actuating systems for motor vehicles B60T)</li> <li>Details (F15B 15/00 takes precedence)</li> <li>Compensation of the liquid content in a system (F15B 7/08 takes precedence;</li> </ul>
M M U M	F15B 7/001 F15B 7/005 F15B 7/04 F15B 7/06 F15B 7/10	<ul> <li>of a volumetric pump; Telemotors {(for control in motor vehicles B60K; in ships B63H 25/00; in aircraft B64C 13/00; combinations of telemotor and servomotor systems F15B 17/00)}</li> <li>{with With multiple inputs-, e.g. for dual control}(input units F15B 7/08, e.g. for dual control)}</li> <li>{with With rotary or crank input (input units F15B 7/08)}</li> <li>in/n which the ratio between pump stroke and motor stroke varies with the resistance against the motor (in brake-actuating systems for motor vehicles B60T)</li> <li>Details (F15B 15/00 takes precedence)</li> <li>Compensation of the liquid content in a system (F15B 7/08 takes precedence; pressure-maintaining arrangements for brake master cylinders B60T 11/228)</li> <li>Servomotors with follow-up action, {-e.g. obtained by feed-back control,} i.e. in which the position of the actuated member conforms with that of the</li> </ul>
М М И М	F15B 7/001 F15B 7/005 F15B 7/04 F15B 7/06 F15B 7/10 F15B 9/00	<ul> <li>of a volumetric pump; Telemotors {(for control in motor vehicles B60K; in ships B63H 25/00; in aircraft B64C 13/00; combinations of telemotor and servomotor systems F15B 17/00)}</li> <li>{with With multiple inputs-, e.g. for dual control}{input units F15B 7/08, e.g. for dual control}}</li> <li>{with With rotary or crank input (input units F15B 7/08)}</li> <li>{with With rotary or crank input (input units F15B 7/08)}</li> <li>in/n which the ratio between pump stroke and motor stroke varies with the resistance against the motor (in brake-actuating systems for motor vehicles B60T)</li> <li>Details (F15B 15/00 takes precedence)</li> <li>Compensation of the liquid content in a system (F15B 7/08 takes precedence; pressure-maintaining arrangements for brake master cylinders B60T 11/228)</li> <li>Servomotors with follow-up action, {, e.g. obtained by feed-back control,}</li> <li>i.e. in which the position of the actuated member conforms with that of the controlling member {(F15B 11/10 takes precedence)}</li> <li>Systems essentially having two or more interacting servomotors {, e.g. multi-stage (F15B 18/00, F15B 20/00 take precedence; servo-operated pilot valves</li> </ul>
м м и м м	F15B 7/001 F15B 7/005 F15B 7/04 F15B 7/06 F15B 7/10 <b>F15B 9/00</b> F15B 9/16	<ul> <li>of a volumetric pump; Telemotors {(for control in motor vehicles B60K; in ships B63H 25/00; in aircraft B64C 13/00; combinations of telemotor and servomotor systems F15B 17/00)}</li> <li>{with With multiple inputs-, e.g. for dual control}(input units F15B 7/08, e.g. for dual control)}</li> <li>{with With rotary or crank input (input units F15B 7/08)}</li> <li>inIn which the ratio between pump stroke and motor stroke varies with the resistance against the motor (in brake-actuating systems for motor vehicles B60T)</li> <li>Details (F15B 15/00 takes precedence)</li> <li>Compensation of the liquid content in a system (F15B 7/08 takes precedence; pressure-maintaining arrangements for brake master cylinders B60T 11/228)</li> <li>Servomotors with follow-up action, {, e.g. obtained by feed-back control,}</li> <li>i.e. in which the position of the actuated member conforms with that of the controlling member {(F15B 11/10 takes precedence)}</li> <li>Systems essentially having two or more interacting servomotors {, e.g. multi-stage (F15B 18/00, F15B 20/00 take precedence; servo-operated pilot valves for the following stage F15B 13/042)}</li> <li>Servomotor systems without provision for follow-up action; {Circuits</li> </ul>

М	F15B 11/024	<ul> <li>by means of differential connection of the servomotor lines, e.g. regenerative circuits {(interconnecting valve details F15B 13/021)}</li> </ul>
U	F15B 11/028	<ul> <li>for controlling the actuating force (F15B 11/024 takes precedence)</li> </ul>
М	F15B 11/032	<ul> <li>• • by means of fluid-pressure converters (fluid-pressure converters per se F15B 3/00)</li> </ul>
Μ	F15B 11/036	<ul> <li>• • by means of servomotors having a plurality of working chambers (servomotors per se F15B 15/00)</li> </ul>
U	F15B 11/04	<ul> <li>for controlling the speed (F15B 11/024 takes precedence)</li> </ul>
U	F15B 11/042	<ul> <li>• • by means in the feed line {, i.e. "meter in"}(<u>F15B 11/046</u>, <u>F15B 11/05</u> take precedence)</li> </ul>
Μ	F15B 11/0423	<ul> <li>• • • {by controlling pump output or bypass, other than to maintain constant speed (adjusting pump output or bypass to maintain constant speed F15B 11/055)}</li> </ul>
Μ	F15B 11/05	<ul> <li>specially adapted to maintain constant speed, e.g. pressure-compensated, load-responsive {(F15B 11/161 takes precedence; counterbalance valves F15B 11/0445; valves for load sensing F15B 13/0416)}</li> </ul>
М	F15B 11/055	• • • {by adjusting the pump output or bypass (pump control F04B 49/00)}
U	F15B 11/08	with only one servomotor
Μ	F15B 11/12	<ul> <li>providing distinct intermediate positions; with step-by-step action {with a number of pistons in a single cylinder step-by-step action obtained by combining two or more servomotors F15B 11/18; (for restricting the stroke F15B 15/24)}</li> </ul>
М	F15B 11/15	<ul> <li>with special provision for automatic return {(fluid gearing with oscillating input or output F16H 43/00)}</li> </ul>
М	F15B 11/16	<ul> <li>with With two or more servomotors {(for soil-shifting machines E02F 9/22)}</li> </ul>
U	F15B 11/161	<ul> <li>• {with sensing of servomotor demand or load}</li> </ul>
Μ	F15B 11/162	<ul> <li>• {for giving priority to particular servomotors or users (priority valve details F15B 13/022; for power steering B62D 5/07)}</li> </ul>
Μ	F15B 11/20	<ul> <li>controlling several interacting or sequentially-operating members (fluid distribution or supply devices for the control of two or more servomotors F15B 13/06)</li> </ul>
Μ	F15B 11/205	<ul> <li>• {the position of the actuator controlling the fluid flow to the subsequent actuator (telescopic booms B66C 23/70)}</li> </ul>
U	F15B 13/00	Details of servomotor systems ({ <u>F15B 1/04, F15B 1/26, F15B 3/00,</u> <u>F15B 7/08, F15B 11/02, F15B 11/10,</u> } F15B 15/00 take precedence){; Valves for servomotor systems}
Μ	F15B 13/01	<ul> <li>Locking-valves or other detent, {i.e. load-holding}, devices (associated with the actuator F15B 15/26; {systems with load-holding valves F15B 11/003})</li> </ul>
Μ	F15B 13/02	<ul> <li>Fluid distribution or supply devices characterised by their adaptation to the control of servomotors</li></ul>
Μ	F15B 13/021	<ul> <li>{Valves for interconnecting the fluid chambers of an actuator (regenerative circuits F15B 11/024)}</li> </ul>
М	F15B 13/022	<ul> <li>• {Flow-dividers; Priority valves (circuits for giving priority to particular servomotors F15B 11/162; priority valves for power steering B62D 5/07)}</li> </ul>
U	F15B 13/04	<ul> <li>for use with a single servomotor</li> </ul>
М	F15B 13/0416	<ul> <li>• • {with means or adapted for load sensing (fluid systems with load sensing F15B 11/05, F15B 11/161)}</li> </ul>
U	F15B 13/042	<ul> <li>operated by fluid pressure {(<u>F15B 13/0401</u>, <u>F15B 13/0416</u> take precedence)}</li> </ul>

Μ	F15B 13/0422	<ul> <li>• • {with manually-operated pilot valves, e.g. joysticks (arrangements of handles or pedals for cranes B66C 13/54; control levers for dredgers and soil shifting machines E02F 9/2004; similar mechanical control actuators G05G 9/047)}</li> </ul>
Μ	F15B 13/043	<ul> <li>with electrically-controlled pilot valves {(electrically-operated main valves F15B 13/044)}</li> </ul>
Μ	F15B 13/044	<ul> <li>operated by electrically-controlled means, e.g. solenoids, torque-motors <del>{(electrically-controlled pilot valves F15B 13/043)}</del></li> </ul>
М	F15B 13/16	<ul> <li>Special measures for feedback {, e.g. by a follow-up device (servomotors with follow-up action F15B 9/00; devices with means or adapted for load sensing F15B 13/0416)}</li> </ul>
М	F15B 15/00	Fluid-actuated devices for displacing a member from one position to another <mark>(motors for continuous movement F01 - F03)</mark> ; Gearing associated therewith
Μ	F15B 15/08	<ul> <li>characterised Characterised by the construction of the motor unit (pistons, cylinders, packing F16J)</li> </ul>
Μ	F15B 15/082	<ul> <li>• {the motor being of the slotted cylinder type (locking mechanisms therefor F15B 15/265)}</li> </ul>
Μ	F15B 15/084	<ul> <li>• {the motor being of the rodless piston type, e.g. with cable, belt or chain (locking mechanisms therefor F15B 15/265)}</li> </ul>
М	F15B 15/10	<ul> <li>the motor being of diaphragm type (connection of valves to inflatable elastic bodies B60C 29/00; diaphragms, bellows F16J 3/00 {; clutches with a fluid- actuated elastic clutching member F16D 25/04})</li> </ul>
U	F15B 15/14	<ul> <li>of the straight-cylinder type</li> </ul>
М	F15B 15/1404	<ul> <li>• • {in clusters, e.g. multiple cylinders in one block (servomotors having a plurality of working chambers F15B 11/036; motors with two or more independently movable working pistons F15B 15/1409)}</li> </ul>
Μ	F15B 15/1409	<ul> <li>• • {with two or more independently movable working pistons (systems F15B 11/12, F15B 11/18)}</li> </ul>
U	F15B 15/1423	<ul> <li>• • {Component parts; Constructional details}</li> </ul>
Μ	F15B 15/1466	<ul> <li>• • • {Hollow piston sliding over a stationary rod inside the cylinder (systems for controlling the actuator force F15B 11/036)}</li> </ul>
М	F15B 15/18	<ul> <li>Combined units comprising both motor and pump {(telemotors F15B 7/00)}</li> </ul>
U	F15B 15/20	<ul> <li>Other details {, e.g. assembly with regulating devices}</li> </ul>
Μ	F15B 15/26	<ul> <li>Locking mechanisms - {(locking valves not combined with the actuator F15B 13/01)}</li> </ul>
М	F15B 20/00	Safety arrangements for fluid actuator systems; Applications of safety devices <mark>in fluid actuator systems(safety devices in general F16P,</mark> <del>{F16P 3/22})</del> ; Emergency measures for fluid actuator systems
Μ	F15B 20/008	<ul> <li>{Valve failure (F15B 18/00 takes precedence)}</li> </ul>
М	F15B 21/00	Common features of fluid actuator systems; Fluid-pressure actuator systems <del>,</del> or details thereof, not covered by any <del>precedingother</del> group of this subclass
Μ	F15B 21/006	<ul> <li>{Compensation or avoidance of ambient pressure variation (systems with a pressurised main reservoir F15B 1/265)}</li> </ul>
М	F15B 21/02	<ul> <li>Servomotor systems with programme control derived from a store or timing device; Control devices therefor <del>({programme control in washing-machines</del> D06F 33/04}; programme control in general G05B 19/00)</li> </ul>

Μ	F15B 21/04	<ul> <li>Special measures taken in connection with the properties of the fluid, e.g. for venting, compensating for changes of viscosity, cooling, filtering, preventing churning</li> </ul>		
Μ	F15B 21/041	<ul> <li> <del>{Filtering; {</del>Removal or measurement of solid or liquid contamination, e.g. <i>filtering</i>}      </li> </ul>		
С	F15B 21/042	<ul> <li>{Cooling or heatingControlling the temperature systems}</li> </ul>		
		<u>WARNING</u> Group <u>F15B 21/042</u> is impacted by reclassification into groups <u>F15B 21/0423</u> and <u>F15B 21/0427</u> . Groups <u>F15B 21/042, F15B 21/0423</u> , and <u>F15B 21/0427</u> should be considered in order to perform a complete search.		
Ν	F15B 21/0423	<ul> <li>• • {Cooling}</li> <li><u>WARNING</u></li> <li>Group <u>F15B 21/0423</u> is incomplete pending reclassification of documents from group <u>F15B 21/042</u>.</li> <li>Groups <u>F15B 21/042</u> and <u>F15B 21/0423</u> should be considered in order to perform a complete search.</li> </ul>		
Ν	F15B 21/0427	<ul> <li>• • {Heating}</li> <li><u>WARNING</u></li> <li>Group <u>F15B 21/0427</u> is incomplete pending reclassification of documents from group <u>F15B 21/042</u>.</li> <li>Groups <u>F15B 21/042</u> and <u>F15B 21/0427</u> should be considered in order to perform a complete search.</li> </ul>		
Μ	F15B 21/044	<ul> <li> <del>{Deaeration, venting, bleeding; {</del>Removal or measurement of undissolved gas-, e.g. de-aeration, venting or bleeding}(preventing cavitation F15B 21/047)}      </li> </ul>		
Μ	F15B 21/045	<ul> <li>{Viscosity Compensating for variations in viscosity compensation (warming up fluid systems F15B 21/042)}</li> </ul>		
Μ	F15B 21/047	<ul> <li>• {Preventing foaming, churning or cavitation (supply reservoir or sump assemblies F15B 1/26)}</li> </ul>		
Μ	F15B 21/048	<ul> <li>{Compressed Arrangements for compressed air preparation units, e.g. comprising air driers or, air condensers, filters, oilers/ubricators or lubricators, pressure regulators (for steam traps F16T; for mist lubrication F16N 7/32; for air conditioning F24F)}</li> </ul>		
Μ	F15B 21/10	<ul> <li>Delay devices or arrangements ({hydraulic braking F15B 11/076}; associated with fluid motors or actuators F15B 15/22)</li> </ul>		
Μ	F15B 21/12	<ul> <li>Fluid oscillators or pulse generators (fluid oscillators predominantly used for computing or control purposes F15C 1/22, F15C 3/16)</li> </ul>		
Μ	F15B 21/14	<ul> <li>Energyrecuperation means (for vehicles B60T 1/10); {Means for reducing energy consumption (regenerative circuits F15B 11/024)}</li> </ul>		
Pro	Project: RP0538 (G06T)			
М	G06T 3/00	Geometric image transformation in the plane of the image <del>, e.g. from bit-</del> mapped to bit-mapped creating a different image		

М	G06T 5/00	Image enhancement or restoration, e.g. from bit-mapped to bit-mapped
		creating a similar image

Μ	G06T 9/00	Image coding, e.g. from bit-mapped to non bit-mapped (bandwidth or redundancy reduction for static pictures H04N 1/41; coding or decoding of static colour picture signals H04N 1/64; methods or arrangements for coding, decoding, compressing or decompressing digital video signals
		<u>H04N 19/00</u> )

# Project: RP0539 (H04W)

Μ	H04W	WIRELESS <u>COMMUNICATIONS</u> COMMUNICATION NETWORKS (radio transmission systems H04B 7/00 broadcast communication H04H; ; transmission systems using electromagnetic waves other than radio waves, e.g. light, infrared H04B 10/00; communication systems using wireless extensions, i.e. wireless links without for non-selective communication, e.g. cordless telephones wireless extensions H04M 1/72; broadcast communication H04H)
		<ul> <li>NOTES</li> <li>1. This subclass <u>covers</u>: <ul> <li>communication networks for selectively establishing one or a plurality of wireless communication links between a desired number of users or between users and network equipment, for the purpose of transferring information via these wireless communication links;</li> <li>networks deploying an infrastructure for mobility management of wireless users connected thereto, e.g. cellular networks, WLAN [Wireless Local Area Network], wireless access networks, e.g. WLL [Wireless Local Loop] or self-organising wireless communication networks, e.g. ad hoc networks;</li> <li>planning or deployment specially adapted for the above-mentioned wireless networks;</li> <li>services or facilities specially adapted for the above-mentioned wireless networks;</li> <li>arrangements or techniques specially adapted for the operation of the above-mentioned wireless networks.</li> </ul> </li> <li>2. This subclass <u>does not cover</u>: <ul> <li>communication systems using wireless extensions, i.e. wireless links without selective communication, e.g. cordless telephones, which are covered by group H04M 1/72;</li> <li>broadcast communication, which is covered by subclass <u>H04H</u>.</li> </ul> </li> <li>3. In this subclass, the first place priority rule is applied, i.e. at each hierarchical level, in the absence of an indication to the contrary, classification is made in the first appropriate place.</li> </ul>
U	H04W 28/00	Network traffic or resource management
Μ	H04W 28/16	<ul> <li>Central resource management; Negotiation of resources {or communication parameters}, e.g. negotiating bandwidth or QoS [Quality of Service]</li> </ul>
Μ	H04W 48/00	Access restriction <u>(access security to prevent unauthorised access</u> <u>H04W 12/08</u> ); Network selection; Access point selection
Μ	H04W 48/08	<ul> <li>Access restriction or access information delivery, e.g. discovery data delivery (signalling during connection <u>H04W 76/00</u>)</li> </ul>
М	H04W 60/00	RegistrationAffiliation to network, e.g. affiliation to networkregistration; De-registrationTerminating affiliation with the network, e.g. terminating affiliationde-registration
Μ	H04W 68/00	Notification of usersUser notification, e.g. alerting and paging, for incoming communication or , change of service or the like

U H04W 74/00 Wireless channel access, e.g. scheduled or random access

Μ	H04W 74/04	<ul> <li>Scheduled {or contention-free} access (<u>H04W 74/02</u> takes precedence)</li> </ul>
Μ	H04W 74/08	<ul> <li>Non-scheduled {or contention based} access, e.g. random access, ALOHA, CSMA [Carrier Sense Multiple Access] (<u>H04W 74/02</u> takes precedence)</li> </ul>
Μ	H04W 80/00	Wireless network protocols or protocol adaptations to wireless operation <del>, e.g. WAP [Wireless Application Protocol]</del>
U	H04W 80/08	<ul> <li>Upper layer protocols {(network arrangements or communication protocols for networked applications <u>H04L 67/00</u>)}</li> </ul>
Μ	H04W 80/12	<ul> <li>Application layer protocols, e.g. WAP [Wireless Application Protocol]</li> </ul>
U	H04W 84/00	Network topologies
		NOTE
		In this group, local priority rules supersede the first-place priority rule (FPPR) applying throughout <u>H04W</u>
U	H04W 84/02	<ul> <li>Hierarchically pre-organised networks, e.g. paging networks, cellular networks, WLAN [Wireless Local Area Network] or WLL [Wireless Local Loop]</li> </ul>
U	H04W 84/04	<ul> <li>Large scale networks; Deep hierarchical networks</li> </ul>
Μ	H04W 84/06	<ul> <li>Airborne or Satellite Networks (space-based or airborne stations <u>H04B 7/185</u>)</li> </ul>
U	H04W 88/00	Devices specially adapted for wireless communication networks, e.g. terminals, base stations or access point devices
Μ	H04W 88/18	<ul> <li>Service support devices; Network management devices</li> </ul>

# Project: RP0540 (A01N)

M A01N

PRESERVATION OF BODIES OF HUMANS OR ANIMALS OR PLANTS OR PARTS THEREOF; BIOCIDES, e.g. AS DISINFECTANTS, AS PESTICIDES, AS HERBICIDES (preparations for medical, dental or toilet purposes <u>A61K</u>; methods or apparatus for disinfection or sterilisation in general, or for deodorising of air <u>A61L</u>); PEST REPELLANTS OR ATTRACTANTS (decoys <u>A01M 1/06</u>; medicinal preparations <u>A61K</u>); PLANT GROWTH REGULATORS (compounds in general <u>C01</u>, <u>C07</u>, <u>C08</u>; fertilisers <u>C05</u>; soil conditioners or stabilisers <u>C09K 17/00</u>)

#### **NOTES**

- 1. This subclass covers:
  - compositions, physical forms, methods of application of specific materials or the use of single compounds or compositions
  - chemosterilants for the sexual sterilisation of invertebrates, e.g. insects -(, whereas sex sterilants for other purposes are covered by A61K).

2. This subclass <u>does not cover</u> materials which affect the growth of a plant solely by supplying nutrients, i.e. plant food, ordinarily required for growth or materials which are used to prevent or cure mineral deficiencies in plants, e.g. addition of iron chelates to cure iron chlorosis, which materials are covered by class <u>C05</u>.

- 3. In this subclass, the following expression is used with the meaning indicated:
  - "plant growth regulators" are those materials which alter the plant through a chemical modification of the plant metabolism, such as auxins.

WARNINGS

1. The following IPC groups are not in the CPC scheme. The subject matter for these IPC groups is classified in the following CPC groups:

A01N 43/824	covered by	A01N 43/82
A01N 43/828	covered by	A01N 43/82
A01N 43/832	covered by	A01N 43/82

A01N 43/836	covered by	<u>A01N 43/82</u>
A01N 53/02	covered by	<u>A01N 53/00</u>
A01N 53/04	covered by	<u>A01N 53/00</u>
A01N 53/06	covered by	<u>A01N 53/00</u>
A01N 53/08	covered by	<u>A01N 53/00</u>
A01N 53/10	covered by	<u>A01N 53/00</u>
A01N 53/12	covered by	<u>A01N 53/00</u>
A01N 53/14	covered by	<u>A01N 53/00</u>
A01N 55/10	covered by	<u>A01N 55/00</u>

2. In this subclass non-limiting references (in the sense of paragraph 39 of the Guide to the IPC) may still be displayed in the scheme.

# Project: RP0540 (B01D)

M B01D

SEPARATION (separating solids from solids by wet methods <u>B03B</u>, <u>B03D</u>; by pneumatic jigs or tables <u>B03B</u>; by other dry methods <u>B07</u>; magnetic or electrostatic separation of solid materials from solid materials or fluids, separation by high-voltage electric fields <u>B03C</u>; centrifuges, vortex apparatus <u>B04</u>; presses <u>per se</u> for squeezing-out liquid from liquidcontaining material <u>B30B 9/02</u>; treatment of water <u>C02F</u>, e.g. softening by ion-exchange <u>C02F 1/42</u>; {arrangements of air intake cleaners in gas turbine plants <u>F02C 7/05</u>} ; arrangements or mounting of filters in airconditioning, air-humidification or ventilation <u>F24F 13/28</u>)

#### **NOTES**

- 1. This subclass <u>covers:</u>
  - evaporation, distillation, crystallisation, filtration, dust precipitation, gas cleaning, absorption, adsorption;
  - similar processes which are not concerned with, or limited to, separation-(, except in the case of absorption or adsorption).

2. In this subclass the terms or expressions are used with the meaning indicated:

- "filtration" and analogous terms include straining solids from fluids.
   Filtration is a process that normally uses a filter medium;
- "filter medium" is a porous material or porous arrangement of material used to filter solids from fluids;
- "filtering element" is a section of filter medium in addition to parts to which the medium is demountably or permanently fixed, including other sections of medium, end caps, peripheral frames or edge strips, but excluding housings;
- "filter housing" is the fluid-constraining impervious vessel, whether open or closed, which contains, or is adapted to contain, one or more filtering elements or filter media;
- "filter chamber" is the space within a housing, where filtering elements or filter media are located. Partitions may divide a single housing into a plurality of chambers;
- "filtering apparatus" consists of filtering elements combined with housings, cleaning arrangements, motor or the like parts, which are characteristic of the particular type of apparatus. Ancillary devices such as pumps or valves are considered part of a filtering apparatus when inside the apparatus. Ancillary devices performing similar or different unit operation such as comminutors, mixers or non-filtering separators, whether or not inside the apparatus, are not considered part of a filtering apparatus. The term does

not extend to apparatus, e.g. washing machines, of which the filter forms only a part.

3. For apparatus used in drying or evaporation, *class* <u>F26</u> takes precedence over <del>B01D*this subclass*</del>.

4. Group <u>B01D 59/00</u> takes precedence over the other groups of this subclass and over other subclasses in class <u>B01</u>.

# WARNINGS

1. The following IPC groups are not in the CPC scheme. The subject matter for these IPC groups is classified in the following CPC groups:

B01D 15/04	covered by	<u>B01J 39/00</u> - <u>B01J 49/90</u>
B01D 17/022	covered by	<u>B01D 17/0202</u>
B01D 17/025	covered by	<u>B01D 17/0208</u>
B01D 17/028	covered by	<u>B01D 17/0211</u>
B01D 17/032	covered by	<u>B01D 17/0214</u>
B01D 17/035	covered by	<u>B01D 17/0205</u>
B01D 17/038	covered by	<u>B01D 17/0217</u>
B01D 17/05	covered by	<u>B01D 17/047</u>
B01D 17/09	covered by	<u>B01D 17/005</u>
B01D 25/133	covered by	<u>B01D 25/285</u>
B01D 25/168	covered by	<u>B01D 25/285</u>
B01D 29/075	covered by	<u>B01D 29/01, B01D 29/64</u>
B01D 29/37	covered by	<u>B01D 29/336, B01D 29/356</u>
B01D 33/052	covered by	<u>B01D 33/042, B01D 33/048</u>
B01D 35/01	covered by	<u>B01D 36/001</u>
B01D 61/26	covered by	<u>A61M 1/1656</u>
B01D 61/34	covered by	<u>A61M 1/16</u>

2. In this subclass non-limiting references (in the sense of paragraph 39 of the Guide to the IPC) may still be displayed in the scheme.

# M B01D 71/00 Semi-permeable membranes for separation processes or apparatus characterised by the material; Manufacturing processes specially adapted therefor

# NOTES

1. In this group, if the material is a composition it is classified according to the constituent present in the highest proportion. This constituent is classified according to the last place rule (, seesee Note before group  $B01D \ 61/00$ ). If there is more than one constituent present in equal highest proportions, then each of these constituents is classified according to the last place rule.

2. Manufacturing processes, if considered of interest, are also classified in group B01D 67/00.

#### Project: RP0540 (C07)

M C07

ORGANIC CHEMISTRY (such compounds as the oxides, sulfides, or oxysulfides of carbon, cyanogen, phosgene, hydrocyanic acid or salts thereof C01; products obtained from layered base-exchange silicates by ion-exchange with organic compounds such as ammonium, phosphonium or sulfonium compounds or by intercalation of organic compounds C01B 33/44; macromolecular compounds C08; dyes C09; fermentation products C12; fermentation or enzyme-using processes to synthesise a desired chemical compound or composition or to separate optical isomers from a racemic mixture C12P; production of organic compounds by electrolysis or electrophoresis C25B 3/00, C25B 7/00)

#### NOTES

- 1. In this class, the following term is used with the meaning indicated:
  - "preparation" covers purification, separation, stabilisation or use of additives, unless a separate place is provided therefor.

2. Biocidal, pest repellant, pest attractant or plant growth regulatory activity of compounds or preparations is further classified within IPC. {This IPC Note does not apply in CPC<del>.</del>}

3. In subclasses <u>C07C-C07K</u>, the last place priority rule is applied, i.e. at each hierarchical level, in the absence of an indication to the contrary, and with the exception referred to below, a compound is classified in the last appropriate place. For example, 2-butyl-pyridine, which contains an acyclic chain and a heterocyclic ring, is classified only as a heterocyclic compound, in subclass <u>C07D</u>. In general, and in the absence of an indication to the contrary, *such as mentioned in groups C07C 59/58, C07C 59/70*, the terms "acyclic" and "aliphatic" are used to describe compounds in which there is no ring; and, if a ring were present, the compound would be taken by the "last place" rule to a later group for cycloaliphatic or aromatic compounds, if such a group exists. Where a compound or an entire group of compounds exists in tautomeric forms, it is classified as though existing in the form which is classified last in the system, unless the other form is specifically mentioned earlier in the system.

4. Chemical compounds and their preparation are classified in the groups for the type of compound prepared. The processes of preparation are also classified in the groups places for the types of reaction employed, if of interest. Examples of such places outside this class are:

<u>C12P</u>	Fermentation or enzyme-using processes to synthesise a
	desired chemical compound or composition or to separate
	optical isomers from a racemic mixture
C25B 3/00	Electrolytic production of organic compounds
<u>C25B 7/00</u>	Electrophoretic production of compounds

5. General processes for the preparation of a class of compounds falling into more than one main group are classified in the groups for the processes employed, when such groups exist. The compounds prepared are also classified in the groups for the types of compound prepared, if of interest.

6. In this class, in the absence of an indication to the contrary, the compounds containing carboxyl or thiocarboxyl groups are classified as the relevant carboxylic or thiocarboxylic acids, unless the "last place rule" (see Note (3), above) dictates otherwise; a carboxyl group being a carbon atom having three bonds, and no more than three, to hetero atoms, other than nitrogen atoms of nitro or nitroso groups, with at least one multiple bond to the same hetero atom and a thiocarboxyl group being a carboxyl group having at least one bond to a sulfur atom, e.g. amides or nitriles of carboxylic acids, are classified with the corresponding acids <del>{unless the "last place rule" (see Note (3), above) dictates otherwise}</del>.

7. {Anhydrides and halides of carboxylic acids are classified as the relevant acids unless otherwise indicated.} Salts of a compound, unless specifically

provided for, are classified as that compound, e.g. aniline hydrochloride is classified as containing carbon, hydrogen and nitrogen only {in *group* <u>C07C 211/46</u>}, sodium malonate is classified as malonic acid (in <u>C07C 55/08</u>), and a mercaptide is classified as the mercaptan. Metal chelates are dealt with in the same way. Similarly, metal alcoholates and metal phenates are {generally} classified in subclass <u>C07C</u> and not in subclass <u>C07F</u>, the alcoholates {for instance} in groups <u>C07C 31/28</u> - <u>C07C 31/32</u> and the phenates as the corresponding phenols in group <u>C07C 39/235</u> or <u>C07C 39/44</u>. Salts, adducts or complexes formed between two or more organic compounds are classified according to all compounds forming the salts, adducts or complexes.

# Project: RP0540 (C08C)

M C08C

# TREATMENT OR CHEMICAL MODIFICATION OF RUBBERS

NOTE

- This subclass includes:
  - processes directed to natural rubber or to conjugated diene rubber (synthesis thereof C08F)
  - processes directed to rubbers in general (to a specified rubber, other than provided for by (a) above, C08F - C08H)

This subclass covers:

- processes directed to natural rubber or to conjugated diene rubbers
- processes directed to rubbers in general.

# WARNING

The following IPC groups are not in the CPC scheme. The subject matter forthese IPC groups is classified in the following CPC groups:C08C 1/16covered byC08C 1/14

# Project: RP0540 (C08F)

M C08F

# MACROMOLECULAR COMPOUNDS OBTAINED BY REACTIONS ONLY INVOLVING CARBON-TO-CARBON UNSATURATED BONDS

# <u>NOTES</u>

- 1. In this subclass, boron or silicon are considered as metals.
- 2. In this subclass, the following expression is used with the meaning indicated:
  - "aliphatic radical" means an acyclic or a non-aromatic carbocyclic carbon skeleton which is considered to be terminated by every bond to:
    - a. an element other than carbon-;
    - b. a carbon atom having a double bond to one atom other than carbon-
    - c. an aromatic carbocyclic ring or a heterocyclic ring.
      - Examples: Polymers of
        - a. CH<sub>2</sub>=CH--O--CH<sub>2</sub>--CH<sub>2</sub>--NH-C(=O)O--COO-CH<sub>2</sub>-CH<sub>2</sub>--OH are classified in group <u>C08F 16/28;</u>
        - b. CH<sub>2</sub>=CH-C(=O)-CH=CH<sub>2</sub> are classified in group C08F 16/36
        - c. para-C<sub>6</sub>H<sub>4</sub>Cl(CH=CH<sub>2</sub>) are classified in group <u>C08F 12/18</u>.
- 3. Therapeutic activity of compounds is further classified in subclass A61P.

3. 4. In this subclass, the last place priority rule is applied, i.e. at each hierarchical level, in the absence of an indication to the contrary, a catalyst or a polymer is classified in the last appropriate place.  $\frac{1}{2}$ 

- a. in the absence of an indication to the contrary, a catalyst or a polymer is classified in the last appropriate place .
- b. {From April 2012 onwards, in a copolymer, the monomer in majority is given an Indexing Code and the monomer(s) in minority are given Indexing Code(s) in the form of a C-Set. The Indexing Codes are linked. The monomer in majority is always indicated first in the C-set. Example: a

copolymer having ethylene in majority and styrene in minority is classified in (C08F 210/02, C08F 212/08 ).}

- 4. 5. In this subclass:-
  - a. macromolecular compounds and their preparation are classified in the groups for the type of compound prepared. General processes for the preparation of macromolecular compounds according to more than one main group are classified in the groups for the processes employed (
     <u>C08F 2/00</u>--<u>C08F 8/00</u>) for the processes employed. Processes for the preparation of macromolecular compounds are also classified in the groups for the types of reactions employed, if of interest;
  - subject matter relating to both homopolymers and copolymers is classified in groups <u>C08F 10/00</u>--<u>C08F 38/00</u>;
  - subject matter limited to homopolymers is classified only in groups <u>C08F 110/00</u>--<u>C08F 138/00</u>;
  - d. subject matter limited to copolymers is classified only in groups <u>C08F 210/00</u>--<u>C08F 246/00;</u>
  - e. in groups <u>C08F 210/00</u> <u>C08F 238/00</u>, in the absence of an indication to the contrary, a copolymer is classified according to the major monomeric component.

5. 6. This subclass <u>coverscovers</u> also compositions based on monomers which form macromolecular compounds classifiable in this subclass (paints C09D 4/00; adhesives C09J 4/00). In this subclass:

- a. if the monomers are defined, classification is made according to the polymer to be formed:
  - in groups <u>C08F 10/00</u>--<u>C08F 246/00</u> if no preformed polymer is present;
  - in groups <u>C08F 251/00</u>--<u>C08F 291/00</u> if a preformed polymer is present, considering the reaction to take place as a graft or crosslinking reaction;
- b. if the presence of compounding ingredients is of interest, classification is made in group <u>C08F 2/44</u> (sensitising agents C08F 2/50; catalysts <u>C08F 4/00</u>);
- c. if the compounding ingredients are of interest <u>per se</u>, classification is also made in subclass <u>C08K</u>.

7. {In this subclass, combination sets [C-Sets] are used. The detailed information about the C-Sets construction and the associated syntax rules are found in the Definitions}

#### WARNING

In this subclass non-limiting references (in the sense of paragraph 39 of the Guide to the IPC) may still be displayed in the scheme.

#### U C08F 4/00 Polymerisation catalysts (catalysts in general <u>B01J</u>)

# NOTES

1. Group  $\underline{\text{CO8F 4/00}}$  and subgroups can be incomplete according to the following classification rules:

- if a catalyst is specifically used for only one type of polymer, it is not classified in <u>C08F 4/00;</u>
- in such a case, the classification symbol of <u>C08F 4/00</u> providing for the catalyst may be used as a symbol for a C-Set in the groups providing for the polymer, e.g. (<u>C08F 12/04</u>, <u>C08F 4/62</u>)
- this method of classification is applied only when a note after the group providing for the polymer explicitly indicates which symbols of <u>C08F 4/00</u> may be used for forming the C-set.

2. When classifying in group  $\underline{C08F4/00}$ , the type of catalyst can be further indexed by using indexing codes chosen from  $\underline{C08F2410/00}$ ,  $\underline{C08F2420/00}$  or their subgroups

U	C08F 4/42	Metals; Metal hydrides; Metallo-organic compounds; Use thereof as catalyst precursors
U	C08F 4/44	<ul> <li>selected from light metals, zinc, cadmium, mercury, copper, silver, gold, boron, gallium, indium, thallium, rare earths or actinides</li> </ul>
Μ	C08F 4/60	<ul> <li>• together with refractory metals, iron group metals, platinum group metals, manganese, rhenium {technetium} or compounds thereof</li> </ul>
		NOTE
		1. In groups C08F 4/60 - C08F 4/64, the term "component" comprises the transition metal or a compound thereof, pretreated or not { (pretreating per se C08F 4/61, C08F 4/63 and C08F 4/65 ) }
		1. In groups <u>C08F 4/602-C08F 4/62</u> , the following term is used with the meaning indicated: "component" comprises a transition metal or a compound thereof, pretreated or not.
		2. Group {In groups C08F 4/602 -C08F 4/619, the group C08F 4/60003 takes precedence over groups C08F 4/602 - }C08F 4/619

# Project: RP0540 (C08G)

M C08G 63/00 Macromolecular compounds obtained by reactions forming a carboxylic ester link in the main chain of the macromolecule (polyester-amides C08G 69/44; polyester-imides C08G 73/16)

#### <u>NOTE</u>

Compounds characterised by the chemical constitution of the polyesters are classified in the groups for the type of polyester compound. Compounds characterised by the preparation process of the polyesters are classified in the groups for the process employed (groups C08G 63/78--C08G 63/87) for the process employed. Compounds characterised both by the chemical constitution and by the preparation process are classified according to each of these aspects.

# Project: RP0540 (C10M)

Μ	C10M 113/00 -	<u>Thickeners</u>
	C10M 123/00	NOTE
		A thickener is an agent which solidifies other liquid components to form a grease

(solid lubricants consisting of solid components C10M 101/00 - C10M 111/00 ).

In groups <u>C10M 113/00</u>-<u>C10M 123/00</u>, the following term is used with the meaning indicated:

 "thickener" is an agent which solidifies other liquid components to form a grease. Solid lubricants consisting of solid components are classified in groups <u>C10M 103/00</u> - <u>C10M 111/00</u>.

# Project: RP0540 (C10N)

M C10N

# INDEXING SCHEME ASSOCIATED WITH SUBCLASS <u>C10M</u> RELATING TO LUBRICATING COMPOSITIONS

# NOTES

1. This subclass constitutes an indexing scheme associated with subclass <u>C10M</u>, relating to:

- metals and the metal of a compound in group C10N 2010/00;
- the properties of the lubricant composition or constituents thereof in groups <u>C10N 2020/00</u>, <u>C10N 2030/00</u>;
- the use or application of the lubricant composition in group C10N 2040/00;
- the form in which the lubricant composition is applied in group <u>C10N 2050/00;</u>

- chemical modification by after-treatment of lubricant constituents in group <u>C10N 2060/00;</u>
- special methods of preparation in group <u>C10N 2070/00;</u>
- special pretreatment of the material to be lubricated in group C10N 2080/00.

2. In this subclass, the following terms or expressions are used with the meanings indicated:

- "lubricant" or "lubricating composition" includes cutting oils, hydraulic fluids, metal drawing compositions, flushing oils, slushing oils, or the like;
- "aliphatic" includes "cycloaliphatic".

# Project: RP0540 (C21B)

M C21B

# MANUFACTURE OF IRON OR STEEL (preliminary treatment of ferrous ores or scrap C22B 1/00; electric heating H05B)

#### NOTE

This subclass <u>covers</u> the production of iron or steel from source materials, e.g. the production of pig-iron, and apparatus specially adapted therefor, e.g. blast furnaces, air heaters (furnaces in general F27).

This subclass covers:

- the production of iron or steel from source materials, e.g. the production of pig-iron;
- apparatus specially adapted therefor, e.g. blast furnaces or air heaters.

# WARNING

In this subclass non-limiting references (in the sense of paragraph 39 of the Guide to the IPC) may still be displayed in the scheme.

# Project: RP0540 (C23)

M C23

COATING METALLIC MATERIAL; COATING MATERIAL WITH METALLIC MATERIAL (by metallising textiles <u>D06M 11/83</u>; decorating textiles by locally metallising <u>D06Q 1/04</u>); CHEMICAL SURFACE TREATMENT; DIFFUSION TREATMENT OF METALLIC MATERIAL; COATING BY VACUUM EVAPORATION, BY SPUTTERING, BY ION IMPLANTATION OR BY CHEMICAL VAPOUR DEPOSITION, IN GENERAL (for specific applications, <u>see</u> the relevant places, e.g. for manufacturing resistors <u>H01C 17/06</u>); INHIBITING CORROSION OF METALLIC MATERIAL OR INCRUSTATION IN GENERAL (treating metal surfaces or coating of metals by electrolysis or electrophoresis <u>C25D</u>, <u>C25F</u>)

# <u>NOTE</u>

- 1. In this class, the following expression is used with the meaning indicated:
  - "metallic material" covers:
    - a. metals;
    - b. alloys (attention is drawn to the Note following the title of subclass C22C):

alloys containing at least 50 % by weight of one or more of borides, carbides, nitrides, oxides or silicides and binding metal; non-ferrous alloys containing at least 5 % by weight but less than 50 % by weight of borides, carbides, nitrides, oxides or silicides of refractory metals, whether added as such or formed in situ.

- 2. Attention is drawn to the Note following the title of subclass C22C. {
  - <u>C22C 29/00</u> concerns alloys containing at least 50 % by weight of one or
  - more of borides, carbides, nitrides, oxides or silicides and binding metal;

• <u>C22C 32/00</u> concerns non-ferrous alloys containing at least 5 % by weight but less than 50 % by weight of borides, carbides, nitrides, oxides or silicides of refractory metals, whether added as such or formed <u>in situ</u>.

# Project: RP0541 (G02B)

M G02B

OPTICAL ELEMENTS, SYSTEMS, OR APPARATUS (G02F takes precedence; measuring-instruments, <u>see</u> the relevant subclass of <u>G01</u>, e.g. optical rangefinders <u>G01C</u>; testing of optical elements, systems, or apparatus <u>G01M 11/00</u>; spectacles <u>G02C</u>; sound lenses <u>G10K 11/30</u>; electron and ion "optics" <u>H01J</u>; X-ray "optics" <u>H01J</u>, <u>H05G 1/00</u>; optical elements structurally combined with electric discharge tubes <u>H01J 5/16</u>, <u>H01J 29/89</u>, <u>H01J 37/22</u>; microwave "optics" <u>H01Q</u>; combination of optical elements with television receivers <u>H04N 5/72</u>; heating arrangements specially adapted for transparent or reflecting areas <u>H05B 3/84</u>; {optical apparatus 42H})

#### NOTE

In this subclass, Attention is drawn to the Notes following terms are used with the titles of class <u>B81</u> and subclass <u>B81B</u> relating to "microstructural devices" and "microstructural systems". meanings indicated :

- "simple lens or prism" means a single lens or prism;
- "compound lens or prism" means an optical member, the constituents of which either are close together without air-space or (except in group) are "in broken contact", i.e. with the air-space between the constituents having no essential optical influence;
- <u>"objective" means a lens or an optical system designed to produce a real</u> image of a real object;
- "eyepiece" means a lens or an optical system designed to produce a virtual image for viewing by the eye or by another optical system;
- "front" or "rear" is determined by looking from the more distant conjugate.

# **WARNINGS**

1. The following IPC groups are not in the CPC scheme. The subject matter for these IPC groups is classified in the following CPC groups:

<u>G02B 9/00</u> and subgroups and <u>G02B 13/00</u> and subgroups

2. In this subclass non-limiting references (in the sense of paragraph 39 of the Guide to the IPC) may still be displayed in the scheme.

# Project: RP0541 (G05B)

# M G05B

CONTROL OR REGULATING SYSTEMS IN GENERAL; FUNCTIONAL ELEMENTS OF SUCH SYSTEMS; MONITORING OR TESTING ARRANGEMENTS FOR SUCH SYSTEMS OR ELEMENTS (fluid-pressure actuators or systems acting by means of fluids in general F15B; valves per se F16K; characterised by mechanical features only G05G; sensitive elements, see the appropriate subclass, e.g. G12B, subclass of G01, H01; correcting units, see the appropriate subclass, e.g. H02K)

# **NOTES**

1. This subclass <u>covers</u> features of control systems or elements for regulating specific variables, which are clearly more generally applicable.

2. This subclass does not cover applications of such systems or elements, which are covered by subclass G05D or G05F.

2. This subclass does not cover:

G02B 11/00 - - G02B 11/34 covered by

- a. systems for controlling or regulating non-electric variables in general, which are covered by subclass <u>G05D</u>;
- b. systems for regulating electric or magnetic variables in general, which are covered by subclass <u>G05F;</u>
- c. systems specially adapted for the control of particular machines or apparatus provided for in a single other subclass, which are classified in the relevant subclass for such machines or apparatus, provided that there is specific provision for control or regulation relevant to the special adaptation. Otherwise, classification is made in the most appropriate place in this subclass.

3. In this subclass, the following terms or expressions are used with the meanings indicated :

- "automatic controller" means a system, circuit, or device in which a signal from the detecting element is compared with a signal representing the desired value and which operates in such a way as to reduce the deviation. The automatic controller generally does not include the sensitive element, i.e. that element which measures the value of the condition to be corrected, or the correcting element, i.e. that element which adjusts the condition to be corrected;
- "electric" includes "electromechanical", "electrohydraulic" or "electropneumatic".

3. In this subclass, the following terms or expressions are used with the meanings indicated:

- "automatic controller" means a system, circuit, or device in which a signal from the detecting element is compared with a signal representing the desired value and which operates in such a way as to reduce the deviation. The automatic controller generally does not include the sensitive element, i.e. that element which measures the value of the condition to be corrected, or the correcting element, i.e. that element which adjusts the condition to be corrected;
- "electric" includes "electromechanical", "electrohydraulic" or "electropneumatic".

4. In this subclass, details or specific control systems are classified in the group relevant to that system, if not otherwise provided for.

# WARNING

In this subclass non-limiting references (in the sense of paragraph 39 of the Guide to the IPC) may still be displayed in the scheme.

# Project: RP0541 (G05D)

M G05D

# SYSTEMS FOR CONTROLLING OR REGULATING NON-ELECTRIC VARIABLES (for continuous casting of metals <u>B22D 11/16</u>; valves <u>per se</u> <u>F16K</u>; sensing non-electric variables, <u>see</u> the relevant subclasses of <u>G01</u>; for regulating electric or magnetic variables <u>G05F</u>)

# NOTES

1. This subclass <u>does not cover</u> features of general applicability to regulating systems, e.g. anti-hunting arrangements, which are covered by subclass <u>G05B</u>.

- 2. In this subclass, the following term is used with the meaning indicated:
  - "systems" includes self-contained devices such as speed governors, pressure regulators.

3. Control systems specially adapted for particular apparatus, machines or processes are classified in the subclasses for the apparatus, machines or processes, provided that there is specific provision for control or regulation relevant to the special adaptation, either at a detailed level, (e.g. <u>A21B 1/40</u>: "for regulating temperature in bakers' ovens"), or at a general level, (e.g. <u>B23K 9/095</u>-: "for automatic control of welding parameters in arc welding").

Otherwise, classification is made in the most appropriate place in this subclass.

The following are lists of places where there is specific provision of the kind referred to above. Where such provision is at a detailed level, the places have been grouped according to the main groups of this subclass. Where the provision is at a general level (e.g. of a kind appropriate to more than one of the main groups specified in the lists, or to main groups G05D 27/00 or G05D 29/00 ), the places are listed under the title "General References".

Places related to G05D 1/00		
A01B 69/00	Agricultural machines or implements	
<del>A63H 17/36</del>	Toy vehicles	
<del>B60V 1/11</del>	Air-cushion vehicles	
<del>B62D 1/00</del>	Steering controls of motor vehicles or trailers, i.e. means for initiating a change of direction	
<del>B62D 6/00</del>	Arrangements for automatically controlling thesteering depending on driving conditions	
<del>B62D 55/116</del>	Chassis of endless-tracked vehicles	
<del>B63H 25/00</del>	Marine steering; control of waterborne vessels	
<del>B64C 13/00 -</del>	Controlling aircraft	
<del>B64C 15/00</del>		
<del>B64D 25/10</del>	Controlling attitude or direction of aircraftejector seats	
<del>B64G 1/24</del>	Cosmonautic vehicles	
<del>F41G 7/00</del>	Self-propelled missiles	
<del>F42B 15/01</del>	Guided missiles	
<del>F42B 19/01</del>	Marine torpedoes	
Places related to (		
<del>A43D 119/00</del>	Footwear manufacture	
<del>B21K 31/00</del>	Tool carriers in forging or pressing	
<del>B23B 39/26</del>	Pattern-controlled boring or drilling tools	
<del>B23D 1/30,</del>	Planing or slotting machines controlled by copying	
<del>B23D 3/06,</del>	device	
B23D 5/04	Electrode to workning anoning in electric discharge	
<del>B23H 7/18</del>	Electrode to workpiece spacing in electric discharge and electrochemical machining	
<del>B23K 26/02</del>	Workpiece in laser welding or cutting	
<del>B23K 37/04</del>	Workpiece in welding	
<del>B23K 37/06</del>	Molten metal in welding	
<del>B23Q 5/20</del>	Spindles in machine tools	
<del>B23Q 15/00,</del>	Tool or work position in machine tools	
<del>B23Q 16/00</del>		
<del>B23Q 35/00</del>	Tools controlled by pattern or master model	
<del>B24B 17/00</del>	Grinding controlled by patterns, drawings,magnetic tape or the like	
<del>B24B 47/22</del>	Starting position in grinding	
<del>B30B 15/24</del>	Actuating members in presses	
<del>B62D 55/116</del>	Chassis of tracked vehicles	
<del>B65H 23/18</del>	Web-advancing mechanisms	
<del>E02F 3/43</del>	Dippers or buckets in dredgers	
<del>F15B 9/00</del>	Fluid-pressure servomotors with follow-up action	
F24S 50/20	Tracking of solar haet collectors	
<del>G03F 9/00</del>	Photomechanical production of patterned or textured surfaces	

	<del>G11B 5/588</del>	Rotating heads in information storage systems
	<del>G21C 7/12</del>	Movement of control elements in nuclear reactors
Places related to G05D 5/00		G05D 5/00
	<del>A24B 7/14</del>	Tobacco cutting
	<del>B05C 11/02</del>	Thickness of coating of fluent material onsurface
	<del>B21B 37/16</del>	Thickness, width, diameter or othertransverse
		dimensions of the products ofmetal-rolling mills
	<del>C03B 18/04</del>	Dimension of glass ribbon
	D21F 7/06	Thickness of layer in paper making
	Places related to	
	<del>A45D 20/26</del>	Air in hair drying helmets
	<del>A61M 5/168</del>	Flow of media to the human body
	<del>B03C 3/36</del>	Gases or vapour in electrostatic separators
	<del>B05C 11/10</del>	Fluent material in coating devices
	<del>B67D 1/12</del>	Dispensing beverages on draught
	<del>B67D 7/28</del>	Transferring liquids
	<del>C10K 1/28</del>	Gas purifiers
	E21B 21/08	Flushing boreholes
	<del>E21B 43/12</del>	Obtaining liquids from wells
	<del>F01D 17/00</del>	Flow in non-positive-displacement machinesor systems
	<del>F01M 1/16</del>	Lubrication arrangements
	<del>F01P 7/00</del>	Coolant flow in cooling devices
	<del>F02C 9/16,</del> <del>F02C 9/50</del>	Gas-turbine working fluid
	<del>F16L 55/027</del>	Throttle passages in pipes
	<del>F24F 11/00</del>	Air-flow or supply of heating or cooling fluids in air treatment arrangements
	F26B 21/12	Air or gas flow in dryers
	<del>G01G 11/08</del>	Continuous flow weighing apparatus
	<del>G21D 3/14</del>	Coolant in nuclear power plant
	Places related to	<del>G05D 9/00</del>
	<del>B01D 21/34</del>	Liquid level in sedimentation arrangements
	<del>B41L 27/04</del>	Ink level in printing, manifolding orduplicating
		arrangements
	F22D 5/00	Feed water for boilers
	H01J 1/10,	Liquid pool electrodes in electric dischargetubes or
	<del>H01J 13/14</del>	lamps
	Places related to	<u>G05D 11/00</u>
	<del>B01D 21/32</del>	Density in sedimentation arrangements
	<del>B01F 15/04</del>	Mixers
	<del>B24C 7/00</del>	Abrasive blasts
	<del>B28C 7/00</del>	Mixtures of clays or cements
	<del>B65G 53/66</del>	Bulk material conveyors
	F02K 3/075	Flow ratio in jet-propulsion plants
	Places related to	<u>G05D-13/00</u>
	<del>B21C 1/12</del>	Drum speed in metal drawing
	<del>B23Q 15/00</del>	Cutting velocity of tool or work
	<del>B30B 15/20</del>	Ram speed in presses

B60K 31/00	Setting or limiting speed of vehicles	
B60L 15/00	Electrically-propelled vehicles	
<del>B64D 31/08</del>	Cruising speed of aircraft	
<del>D01D 1/09</del>	Feed rate in manufacture of artificialfilaments, threads,	
D04045/00	fibres, bristles orribbons	
D01G 15/36	Carding machines	
D02H 13/14	Warping, beaming or leasing machines	
D03D 51/16	Cyclically varying speed of looms	
G01N 30/32	Speed of fluid carrier in chemical analysis	
<del>G11B 15/46</del>	Filamentary or web record carriers or headsfor such carriers in information storagesystems	
<del>G11B 19/28</del>	Non-filamentary, non-web record carriers, orheads for such carriers in information storagesystems	
Places related to	<del>5 G05D 15/00</del>	
<del>B25D 9/26</del>	Portable percussive tools	
<del>B30B 15/22</del>	Ram pressure in presses	
<del>B65H 59/00</del>	Tension in filamentary material	
<del>{B65H 23/00,</del> <del>B65H 59/00}</del>	Tension in webs, tapes, filamentary material	
<del>B66D 1/50</del>	Rope, cable or chain tension	
<del>D03D 49/04</del>	Tension in looms	
<del>D05B 47/04</del>	Tension in sewing machines	
<del>D21F 3/06</del>	Pressure in paper-making machines	
F26B 13/12	Drying fabrics	
F26B 21/10	Pressure in dryers	
<del>G11B 15/43</del>	Record carrier tension in informationstorage arrangements	
Dia see veleted t		
Places related to B60C 23/00		
B63C 11/08	<del>Tyre pressure</del> <del>Air within diving suit</del>	
B64D 13/00	<b>C</b>	
B65G 53/66	Aircraft air-pressure Bulk material conveyors	
<del>D01D-1/09</del>	Manufacture of artificial filaments, threads, fibres,	
DOID 1/09	bristles or ribbons	
<del>E21B 21/08</del>	Flushing boreholes	
F01M 1/16	Lubrication arrangements	
G01N 30/32	Pressure of fluid carrier in chemical analysis	
H01J 7/14	Pressure in electric discharge tubes or lamps	
H01K 1/52	Pressure in electric incandescent lamps	
Places related to		
<del>B25D 9/26</del>	Portable percussion tools	
<del>B65G 27/32</del>	Jigging conveyors	
Places related to	<del>5 G05D 21/00</del>	
<del>B01D 21/32</del>	Density in sedimentation arrangements	
<del>B01D 53/30</del>	Treating gases or vapours	
<del>G01N 30/34</del>	Composition of fluid carrier in chemicalanalysis	
Places related to	<del>5 G05D 22/00</del>	
A01G 25/16	Watering gardens, fields, sports groundsor the like	
<del>A01K 41/04</del>	Poultry incubators	

A24B 9/00Tobacco productsF24F 11/00Air conditioningF26B 21/08Dryers		
F26B-21/08 Dryers		
Places related to COED 22/00		
Places related to G05D 23/00		
A21B 1/40 Bakers' ovens		
	Hair curlers	
•	Metal extruding	
	Tyre temperature	
	Cosmonautic vehicles	
CO3B 18/18, Float baths in glass making		
CO3B 18/22		
D01D 1/09 Manufacture of artificial filaments,threads, fibres, bristles or ribbons		
D04B-35/30 Knitting machines		
D06F 75/26 Hand irons		
D21F 5/06 Paper-making machines		
F01M 5/00 Lubricant in lubrication arrangements		
F16N 7/08 Arrangements for supplying oil or unspecifiedlubrican	;	
from a reservoir		
F22G 5/00 Steam superheat		
F26B 21/10 Dryers		
G01N 30/30 Temperature of fluid carrier in chemicalanalysis		
H01M 10/60 Electric storage cells		
H05B 6/06, Dielectric, induction or microwave heating		
H05B 6/50,		
H05B 6/68		
H05G 1/36 Anode of X-ray tube		
Places related to G05D 25/00		
B41B-21/08 Photographic composing machines		
H01S 3/10, Lasers and other light sources		
H05B 33/08,		
H05B 35/00 to		
H05B-43/00		
General references		
A01J 5/007 Milking machines		
B23K 9/095 Welding parameters		
B23Q 35/00 Copying		
B24B 17/00, Grinding or polishing		
B24B-49/00		
B24C 7/00 Abrasive blasts		
B67D 1/12 Dispensing beverages on draught		
G03G 21/20 Electrographic, electrophotographic ormagnetographi processes	Э	
H02P 5/00 Dynamo-electric motors or generators		
H02P 9/00		

WARNING

In this subclass non-limiting references (in the sense of paragraph 39 of the Guide to the IPC) may still be displayed in the scheme.

# Project: RP0541 (G05G)

M G05G

CONTROL DEVICES OR SYSTEMS INSOFAR AS CHARACTERISED BY MECHANICAL FEATURES ONLY ("Bowden" or like mechanisms F16C 1/10; gearings or mechanisms not peculiar to this purpose F16H; speed changing or reversing mechanisms for gearings conveying rotary motion F16H 59/00 - F16H 63/00)

# <u>NOTES</u>

1. This subclass covers:

- members of general applicability for mechanical control;
- mechanical systems for moving members to one or more definite settings.

2. Systems peculiar to the control of particular machines or apparatus provided for in a single other class are classified in the relevant class for such machines or apparatus., for example:

A61G 13/02	Controls for adjusting operating tables			
A61G 15/02	Controls for adjusting operating chairs			
A63F 13/20,	Accessories for games using an electronically generated			
A63F 13/98	display			
B25J	Manipulators, e.g. controls therefor			
B60K 26/00	Arrangement or mounting of propulsion-unit control devices in vehicles			
B60T 7/00	Vehicle brake-action initiating means			
B62D 33/073	Adaptations of control devices for movable vehicle cabs			
B <del>62K 21/00</del>	Cycle-steering devices			
B <del>62K 23/00</del>	Rider-operated controls specially adapted for cycles			
B <del>62L 3/00</del>	Brake-actuating mechanisms specially adapted for cycles			
B63H 25/02	Marine steering initiating means			
B66B 1/00	Controls for elevators			
B66C 13/18	Control systems or devices for cranes			
B66C 13/56	Arrangements of handles or pedals for crane operation			
<del>E02F 9/20</del>	Control devices for dredging or soil shifting machines			
F16C 3/28	Adjustable cranks or eccentrics			
F16D 43/00	Automatic clutches			
<del>F16K 31/00,</del> F <del>16K 33/00</del>	Controls for valves			
F16P 3/00	Safety devices acting in conjunction with the control or operation of a machine			
F16P 7/02	Stopping machines on occurrence of dangerous conditions therein			
G02B 21/32	Micromanipulators structurally combined with microscopes			
<del>G04B 1/00 -</del>	Driving mechanisms in clocks or watches			
G04B 18/00				
G06C	Digital computers in which all the computation is effected mechanically			
<del>G06F 3/02</del>	Manual computer input arrangements			
<del>G06K 11/00</del>	Converting a pattern of mechanical parameters into electric signals			
G <del>21C 7/08</del>	Displacement of solid control elements in nuclear reactors			
H01H	Mechanisms for operating switch contacts			

#### H03J 1/00 Mechanical control of resonant circuits.

#### WARNING

In this subclass non-limiting references (in the sense of paragraph 39 of the Guide to the IPC) may still be displayed in the scheme.

# Project: RP0544 (F16L)

M F16L

# PIPES; JOINTS OR FITTINGS FOR PIPES; SUPPORTS FOR PIPES, CABLES OR PROTECTIVE TUBING; MEANS FOR THERMAL INSULATION IN GENERAL

# <u>NOTES</u>

- 1. In this subclass, the following terms are used with the meanings indicated:
  - "pipe" means a conduit of closed cross-section, which is specially adapted to convey fluids, materials or objects;
  - "hose" means a pipe, as defined above, which has flexibility as an essential characteristic.
- 2. Attention is drawn to the following places:

<u>A61M 39/00</u>	Tube connectors, tube couplings or branch units, specially adapted for medical use	
<u>B05B 1/20</u>	Perforated pipes	
{ <u>B60T 17/04</u> }	{Arrangement of piping or air hoses in brake systems}	
B63B 35/03	Pipe-laying vessels	
<u>B64D 39/04</u>	Adaptation of hose constructions for refuelling aircraft during flight	
{ <u>B65G 51/00</u> }	{Conveying articles through pipes or tubes by fluid flow or pressure}	
{ <u>B65G 53/00</u> }	{Conveying materials in bulk through pipes or tubes}	
<u>B67D 7/38</u>	Arrangements of hoses in apparatus for transferring liquids, e.g. fuel, from bulk to vehicles or portable containers	
<u>E01D 19/10</u>	Fastening of pipes or cables to bridges	
<u>E03B</u>	Water supply installations	
E03D 11/17	Means for connecting water-closet bowls to the flushing	
	pipe	
E03D 11/18	Siphons for water-closets	
E03F 3/04	Pipes or fittings specially adapted to sewers	
<u>E04D 13/08</u>	Down pipes for roof drainage; Clamping means therefor	
<u>E04F 17/00</u>	Vertical ducts, channels in buildings, e.g. chimneys	
<u>E21F 1/04</u>	Air ducts for ventilation of mines or tunnels; Connections therefor	
E21F 17/02	Suspension devices for tubes or the like in mines or tunnels	
<u>F01N</u>	Gas flow silencers or exhaust apparatus for machines or engines	
{ <u>F16B 7/00</u> }	{Connections of rods or tubes}	
F16N 21/00	Conduits, junctions for lubrication systems	
F17C 3/02	Thermal insulation of vessels not under pressure for storing liquefied or solidified gases, e.g. Dewar flask	
{ <mark>F17D</mark> }	{Pipe-line systems, pipe-lines}	
F22B 37/10	Water tubes of steam boilers	
F23J 13/04	Joints, connections for chimneys or flues	
<u>F24H 9/12</u>	Connecting circulation pipes to heaters	
<u>F28F 9/04</u>	Arrangements for sealing elements into header boxes or end plates of heat-exchangers	

G21C 15/22	Structural association of coolant tubes with headers or other
	pipes in nuclear reactors
H02G 3/04	Protective tubing or conduits for electric cables
H02G 3/26	Installations of electric cables or lines, or protective tubing
	on or in walls,ceilings or floors.

# WARNINGS

1. The following IPC groups are not in the CPC scheme. The subject matter for these IPC groups is classified in the following CPC groups:

F16L 3/21	covered by	F16L 3/2053, F16L 3/2056;
F16L 13/013	covered by	<u>F16L 13/007;</u>
F16L 19/03	covered by	<u>F16L 19/0212;</u>
F16L 59/05	covered by	<u>F16L 59/021</u> .
F16L 101/14	covered by	

2. {In this subclass non-limiting references (in the sense of paragraph 39 of the Guide to the IPC) may still be displayed in the scheme.}

steam boilers F22B 37/105};) arrangements for leading electric cables or lines through walls, floors or ceilings H02G 3/22; arrangements for leading

electric cables or lines through walls, floors or ceilings H02G 3/22)

Μ F16L 1/00 Laying or reclaiming pipes; Repairing or joining pipes on or under water (soldering or welding B23K; lifting-gear and load-engaging elements B66; hydraulic installations, soil drainage E02B; excavations or underwater constructions E02D; {conduits made of concrete in situ E02D 29/10}; machines for digging trenches in combination with pipe-assembly E02F; laying sewer pipes E03F 3/06; in earth boreholes or wells E21B; tunnelling E21D; laying electric, or combined optical and electric, cables H02G; making special pipes joint, see the relevant groups for the joints) F16L 1/12 Μ Laying or reclaiming pipes on or under water (buoyant hoses F16L 11/133) Μ F16L 1/123 • • {Devices for the protection of pipes under water (in general F16L 57/00)} F16L 1/20 Accessories therefor, e.g. floats, weights, (buoys B63B 22/00) Μ F16L 1/24 Floats; Weights {(salvaging sunken vessels or other underwater objects Μ B63C 7/00; floats per se B63B 22/00)} Μ F16L 1/26 Repairing or joining pipes on or under water (buoyant hoses F16L 11/133; joints per se F16L 13/00 - F16L 49/00; {Joining pipes to underwater installations E21B}) U F16L 3/00 Supports for pipes, cables or protective tubing, e.g. hangers, holders, clamps, cleats, clips, brackets (anchors for holding pipes on or under the ground F16L 1/06; {sound-damping supports F16L 55/035; supports for insulated pipes F16L 59/135}) Μ F16L 3/01 · for supporting or guiding the pipes, cables or protective tubing, between relatively movable points, e.g. movable channels (hauling- or hoisting-chains with arrangements for holding electric cables, hoses or the like F16G 13/16) F16L 3/015 • • using articulated- or supple-guiding elements (arrangements for cranes of М means for transmitting pneumatic, hydraulic or electric power to movable parts or devices B66C 13/12) F16L 3/02 - partly surrounding the pipes, cables or protective tubing (bands or chains U F16L 3/14) Μ F16L 3/04 and pressing it against a wall or other support {(staples F16B 15/00)} F16L 5/00 Devices for use where pipes, cables or protective tubing pass through walls Μ or partitions ({joining pipes to walls F16L 41/00; joining plastic pipes to walls F16L 47/26; {passing insulated pipes through walls F16L 59/121; for

Μ	F16L 9/00	Rigid pipes <del>{(steam boiler tubes F22B 37/10)}</del>
Μ	F16L 9/02	<ul> <li>of metal (F16L 9/16 - F16L 9/22 take precedence; finned pipes F28F)</li> </ul>
М	F16L 9/06	<ul> <li>Corrugated pipes {(flexible F16L 11/15)}</li> </ul>
Μ	F16L 9/08	<ul> <li>of concrete, cement, or asbestos cement, with or without reinforcement (<u>F16L 9/16</u> - <u>F16L 9/22</u> take precedence; {shaping clay or other ceramic compositions, slag or mixtures containing cementitious material B28B})</li> </ul>
Μ	F16L 9/16	<ul> <li>wound from sheets or strips, with or without reinforcement</li></ul>
М	F16L 9/18	<ul> <li>Double-walled pipes; Multi-channel pipes or pipe assemblies (joints therefor F16L 39/00)</li> </ul>
М	F16L 11/00	Hoses, i.e. flexible pipes <del>(hose-like supports for pipes, cables or protective tubing, between relatively movable points F16L 3/01; suction-cleaner hoses A47L 9/24)</del>
U	F16L 13/00	Non-disconnectible pipe-joints, e.g. soldered, adhesive or caulked joints (joints for rigid pipes of plastics F16L 47/00; {non-disconnectible pipe- joints to walls or other pipes, the joined pipe axis being perpendicular to the plane of the wall or to the axis of the other pipe F16L 41/082})
Μ	F16L 13/007	<ul> <li>specially adapted for joining pipes of dissimilar materials {(disconnectible joints for pipes of dissimilar materials F16L 25/0072; joints between metal and plastic pipes F16L 47/24)}</li> </ul>
М	F16L 13/02	<ul> <li>Welded joints</li></ul>
Μ	F16L 13/08	<ul> <li>Soldered joints {(specially adapted for connecting metal hoses to rigid members <u>F16L 33/26; soldering metal B23K 1/00</u>)}</li> </ul>
Μ	F16L 13/14	<ul> <li>made by plastically deforming the material of the pipe, e.g. by flanging, rolling {(working of metal tubes without essentially removing material B21D)}         </li> </ul>
м	F16L 15/00	Screw-threaded joints {({hose connections with parts screwed directly on or into the hose F16L 33/24; joining pipes to wall F16L 41/00}; casing joints used in deep-drilling E21B 17/08; joints sealed primarily by means other than engagement of screw-threads, see the relevant groups characterised by the sealing arrangements)}; Forms of screw-threads for such joints
м	F16L 17/00	Joints with packing adapted to sealing by fluid pressure ( <del>{for universal</del> joints with partly spherical engaging surfaces F16L 27/067; joints allowing adjustment or movement only about the axis of one pipe F16L 27/08; joints comprising a flexible connection only F16L 27/10; joints allowing substantial longitudinal adjustment or movement F16L 27/12; {for hoses F16L 33/16} compensating devices F16L 51/00; couplings of the quick acting type F16L 37/00;} compensating devices F16L 51/00; sealings tightened by external pressure, inflatable packings F16J 15/00)
Μ	F16L 17/10	<ul> <li>the packing being sealed by the pressure of a fluid other than the fluid in or surrounding the pipe (expansion-compensation arrangements for pipe-lines F16L 51/00)</li> </ul>
М	F16L 21/00	Joints with sleeve or socket (F16L 13/00, {F16L 15/00}, F16L 17/00, F16L 19/00, {F16L 25/0027, F16L 27/00, F16L 37/00} take precedence {; {specially adapted to be made of plastics or to be used with pipes made of plastics F16L 47/06; specially adapted for pipes of brittle material F16L 49/08 F16L 49/02}; devices for covering leaks in pipes or hoses F16L 55/16})

Μ	F16L 23/00	Flanged joints (F16L 13/00, F16L 17/00, F16L 19/00 take precedence; adjustable joints F16L 27/00; for hoses F16L 33/00; couplings of the quick-acting type F16L 37/00; for double-walled or multi-channel pipes or assemblies F16L 39/00; connecting arrangements or other fittings specially adapted to be made of plastics or to be used with pipes made of plastics F16L 47/00; specially adapted for pipes of brittle material pipe F16L 49/00)
М	F16L 25/00	Constructive types of pipe joints not provided for in groups F16L 13/00 - F16L 23/00 (adjustable joints or allowing movement F16L 27/00; couplings of the quick-acting type F16L 37/00; with fluid cut-off means F16L 29/00; specially adapted to be made of plastics or to be used with pipes made of plastics F16L 47/00; quick-acting F16L 37/00; for double-walled or multi-channel pipes F16L 39/00; connecting arrangements or other fittings specially adapted to be made of plastics or to be used with pipes made of plastics F16L 47/00; specially adapted for pipes of brittle material F16L 49/00 ){; Details of pipe joints not otherwise provided for, e.g. electrically conducting or insulating means}
Μ	F16L 25/01	<ul> <li>specially adapted for realising electrical conduction between the two pipe ends of the joint or between parts thereof (electrically-conductive connections between or with tubular conductors H01R 4/60)</li> </ul>
Μ	F16L 25/02	<ul> <li>Electrically insulating joints or couplings (F16L 47/00 takes precedence; insulating bodies in general H01B)</li> </ul>
U	F16L 27/00	Adjustable joints, Joints allowing movement (of the quick-acting type F16L 37/50; for double-walled or multi-channel pipe assemblies F16L 39/04; {connecting arrangements or other fittings specially adapted to be made of plastics or to be used with pipes made of plastics F16L 47/00; connecting arrangements specially adapted for pipes of brittle material F16L 49/00})
Μ	F16L 27/02	<ul> <li>Universal joints, i.e. with mechanical connection allowing angular movement or adjustment of the axes of the parts in any direction {(articulated hoses made of rigid material F16L 11/18)}</li> </ul>
Μ	F16L 27/04	<ul> <li>with partly spherical engaging surfaces -{(with, between the surfaces, a flexible element which undergoes shear and flexure F16L 27/103)}</li> </ul>
Μ	F16L 27/08	<ul> <li>allowing adjustment or movement only about the axis of one pipe {(swivel joints in hose lines for flushing boreholes E21B 21/02)}</li> </ul>
Μ	F16L 29/00	Joints with fluid cut-off means (quick-acting joints with cut-off means <u>F16L 37/28 <del>{; valves, taps or cocks in general F16K}</del>)</u>
Μ	F16L 29/02	<ul> <li>with a cut-off device in one of the two pipe ends, the cut-off device being automatically opened when the coupling is applied <u>{(screw joints without cut-off</u> devices F16L 19/00)}</li> </ul>
Μ	F16L 29/04	<ul> <li>with a cut-off device in each of the two pipe ends, the cut-off devices being automatically opened when the coupling is applied {(screw joints without cut-off devices F16L 19/00)}</li> </ul>
Μ	F16L 33/00	Arrangements for connecting hoses to rigid members (hand tools for inserting fittings into hoses B25B 27/10); Rigid hose connectors, i.e. single members engaging both hoses {(hoses or hose couplings specially adapted for suction cleaners A47L 9/24)}
Μ	F16L 33/02	<ul> <li>Hose-clips {(covering leaks in pipes or hoses F16L 55/16)}</li> </ul>
U	F16L 37/00	Couplings of the quick-acting type (radially binding sleeves F16L 17/04, F16L 21/06; connecting hoses to rigid members F16L 33/00; connections made automatically when vehicles are brought together B60D, B61G; specially adapted for lubricating devices F16N 21/00)
U	F16L 37/08	<ul> <li>in which the connection between abutting or axially overlapping ends is maintained by locking members (<u>F16L 37/22</u> - <u>F16L 37/26</u> take precedence)</li> </ul>

М	F16L 37/084	<ul> <li>combined with automatic locking {(F16L 37/22 takes precedence)}</li> </ul>
Μ	F16L 37/12	<ul> <li>using hooks, pawls or other movable or insertable locking members         {(F16L 37/084 takes precedence)}     </li> </ul>
М	F16L 37/50	<ul> <li>adjustable; allowing movement of the parts joined <u>{(adjustable joints in general</u> F16L 27/00; for double-walled or multi-channel pipes or pipe assemblies F16L 39/04)}</li> </ul>
U	F16L 39/00	Joints or fittings for double-walled or multi-channel pipes or pipe assemblies
М	F16L 39/04	<ul> <li>allowing adjustment or movement {(in general F16L 27/00; of the multiline swivel type F16L 39/06)}</li> </ul>
Μ	F16L 41/00	Branching pipes; Joining pipes to walls (F16L 39/00 takes precedence {; joints suitable for connecting together pipe-ends <u>see</u> the relevant groups {specially adapted to be made of plastics or to be used with pipes made of plastics F16L 47/26; characterised by couplings of the quick-acting type F16L 37/008;} connections not designed for conveying fluid F16B 9/00; specially adapted to be made of plastics or to be used with pipes made of plastics F16L 47/26 })
М	F16L 41/04	<ul> <li>Tapping pipe walls, i.e. making connections through the walls of pipes while they are carrying fluids; Fittings therefor (apparatus or operations relating to metal-working steps, see the relevant classes for metal-working)</li> </ul>
U	F16L 41/08	<ul> <li>Joining pipes to walls or pipes, the joined pipe axis being perpendicular to the plane of the wall or to the axis of another pipe (<u>F16L 41/02</u> takes precedence)</li> </ul>
М	F16L 41/082	<ul> <li>{Non-disconnectible joints, e.g. soldered, adhesive or caulked joints (non- disconnectible pipe joints in general F16L 13/00)}</li> </ul>
М	F16L 43/00	Bends; Siphons (with cleaning apertures <u>F16L 45/00 <del>{;</del> expansion-</u>
		compensation arrangements making use of bends F16L 51/04}; siphons for water-closets E03D 11/18; siphons in general F04F 10/00)
М	F16L 47/00	compensation arrangements making use of bends F16L 51/04}; siphons for
M	<b>F16L 47/00</b> F16L 47/02	<ul> <li>compensation arrangements making use of bends F16L 51/04}; siphons for water-closets E03D 11/18; siphons in general F04F 10/00)</li> <li>Connecting arrangements or other fittings specially adapted to be made of plastics or to be used with pipes made of plastics {(rigid pipes of plastics F16L 9/12; connections for hoses of plastics F16L 33/006; bends or siphons</li> </ul>
		<ul> <li>compensation arrangements making use of bends F16L 51/04}; siphons for water-closets E03D 11/18; siphons in general F04F 10/00)</li> <li>Connecting arrangements or other fittings specially adapted to be made of plastics or to be used with pipes made of plastics {(rigid pipes of plastics F16L 9/12; connections for hoses of plastics F16L 33/006; bends or siphons F16L 43/008)}</li> </ul>
М	F16L 47/02	<ul> <li>compensation arrangements making use of bends F16L 51/04}; siphons for water-closets E03D 11/18; siphons in general F04F 10/00)</li> <li>Connecting arrangements or other fittings specially adapted to be made of plastics or to be used with pipes made of plastics {(rigid pipes of plastics F16L 9/12; connections for hoses of plastics F16L 33/006; bends or siphons F16L 43/008)}</li> <li>Welded joints; Adhesive joints {(in general F16L 13/00)}</li> </ul>
M M	F16L 47/02 F16L 47/04	<ul> <li>compensation arrangements making use of bends F16L 51/04}; siphons for water-closets E03D 11/18; siphons in general F04F 10/00)</li> <li>Connecting arrangements or other fittings specially adapted to be made of plastics or to be used with pipes made of plastics {(rigid pipes of plastics F16L 9/12; connections for hoses of plastics F16L 33/006; bends or siphons F16L 43/008)}</li> <li>Welded joints; Adhesive joints {(in general F16L 13/00)}</li> <li>with a swivel nut or collar engaging the pipe {(in general F16L 19/00)}</li> </ul>
M M M	F16L 47/02 F16L 47/04 F16L 47/06	<ul> <li>compensation arrangements making use of bends F16L 51/04}; siphons for water-closets E03D 11/18; siphons in general F04F 10/00)</li> <li>Connecting arrangements or other fittings specially adapted to be made of plastics or to be used with pipes made of plastics {(rigid pipes of plastics F16L 9/12; connections for hoses of plastics F16L 33/006; bends or siphons F16L 43/008)}</li> <li>Welded joints; Adhesive joints {(in general F16L 13/00)}</li> <li>with a swivel nut or collar engaging the pipe {(in general F16L 19/00)}</li> <li>with sleeve or socket formed by or in the pipe end {(in general F16L 21/00)}</li> </ul>
M M U	F16L 47/02 F16L 47/04 F16L 47/06 F16L 47/20	<ul> <li>compensation arrangements making use of bends F16L 51/04}; siphons for water-closets E03D 11/18; siphons in general F04F 10/00)</li> <li>Connecting arrangements or other fittings specially adapted to be made of plastics or to be used with pipes made of plastics {(rigid pipes of plastics F16L 9/12; connections for hoses of plastics F16L 33/006; bends or siphons F16L 43/008)}</li> <li>Welded joints; Adhesive joints {(in general F16L 13/00)}</li> <li>with a swivel nut or collar engaging the pipe {(in general F16L 19/00)}</li> <li>with sleeve or socket formed by or in the pipe end {(in general F16L 21/00)}</li> <li>based principally on specific properties of plastics</li> </ul>
M M U M	F16L 47/02 F16L 47/04 F16L 47/06 F16L 47/20 F16L 47/22	<ul> <li>compensation arrangements making use of bends F16L 51/04}; siphons for water-closets E03D 11/18; siphons in general F04F 10/00)</li> <li>Connecting arrangements or other fittings specially adapted to be made of plastics or to be used with pipes made of plastics {(rigid pipes of plastics F16L 9/12; connections for hoses of plastics F16L 33/006; bends or siphons F16L 43/008)}</li> <li>Welded joints; Adhesive joints {(in general F16L 13/00)}</li> <li>with a swivel nut or collar engaging the pipe {(in general F16L 19/00)}</li> <li>with sleeve or socket formed by or in the pipe end {(in general F16L 21/00)}</li> <li>based principally on specific properties of plastics</li> <li>using shrink-down material {(in other than plastic F16L 13/004)}</li> <li>Connecting arrangements, e.g. joints, specially adapted for pipes of brittle material, e.g. glass, earthenware {(sleeves, nipples or reduction pieces)</li> </ul>
М М U М	F16L 47/02 F16L 47/04 F16L 47/06 F16L 47/20 F16L 47/22 F16L 49/00	<ul> <li>compensation arrangements making use of bends F16L 51/04}; siphons for water-closets E03D 11/18; siphons in general F04F 10/00)</li> <li>Connecting arrangements or other fittings specially adapted to be made of plastics or to be used with pipes made of plastics {(rigid pipes of plastics F16L 9/12; connections for hoses of plastics F16L 33/006; bends or siphons F16L 43/008)}</li> <li>Welded joints; Adhesive joints {(in general F16L 13/00)}</li> <li>with a swivel nut or collar engaging the pipe {(in general F16L 19/00)}</li> <li>with sleeve or socket formed by or in the pipe end {(in general F16L 21/00)}</li> <li>based principally on specific properties of plastics</li> <li>using shrink-down material {(in other than plastic F16L 13/004)}</li> <li>Connecting arrangements, e.g. joints, specially adapted for pipes of brittle material, e.g. glass, earthenware {(sleeves, nipples or reduction pieces made of elastic material F16L 21/005)}</li> <li>Joints in which sealing surfaces are pressed together by means of a member, e.g. swivel nut, screwed on, or into, one of the joint parts {(in general</li> </ul>
м м и м м м	F16L 47/02 F16L 47/04 F16L 47/06 F16L 47/20 F16L 47/22 <b>F16L 49/00</b> F16L 49/06	<ul> <li>compensation arrangements making use of bends F16L 51/04}; siphons for water-closets E03D 11/18; siphons in general F04F 10/00)</li> <li>Connecting arrangements or other fittings specially adapted to be made of plastics or to be used with pipes made of plastics {(rigid pipes of plastics F16L 9/12; connections for hoses of plastics F16L 33/006; bends or siphons F16L 43/008)}</li> <li>Welded joints; Adhesive joints {(in general F16L 13/00)}</li> <li>with a swivel nut or collar engaging the pipe {(in general F16L 19/00)}</li> <li>with sleeve or socket formed by or in the pipe end {(in general F16L 21/00)}</li> <li>based principally on specific properties of plastics</li> <li>using shrink-down material {(in other than plastic F16L 13/004)}</li> <li>Connecting arrangements, e.g. joints, specially adapted for pipes of brittle material, e.g. glass, earthenware {(sleeves, nipples or reduction pieces made of elastic material F16L 21/005)}</li> <li>Joints in which sealing surfaces are pressed together by means of a member, e.g. swivel nut, screwed on, or into, one of the joint parts {(in general F16L 19/00)}</li> </ul>

U	F16L 55/00	Devices or appurtenances for use in, or in connection with, pipes or pipe systems (the preceding groups and groups F16L 57/00, F16L 59/00 take precedence; repairing or joining pipes on or under water F16L 1/26; nozzles B05B; cleaning of pipes B08B 9/02; {arrangements of draining devices for water main or service pipe systems E03B 7/08;} devices for preventing bursting of water pipes by freezing E03B 7/10; {draining devices for hydrants E03B 9/14;} for domestic plumbing installations E03C 1/00; {steam traps for draining of liquids from enclosures containing gases or vapours F16T}; arrangements for sealing leaky tubes or conduits of heat- exchangers F28F 11/00)
Μ	F16L 55/02	<ul> <li>Energy absorbers; Noise absorbers (in valves <u>F16K 47/00 {; springs, shock</u> absorbers, means for damping vibration in general F16F})</li> </ul>
Μ	F16L 55/027	<ul> <li>Throttle passages (influencing fluid flow F15D 1/00; control of fluid flow G05D 7/00)</li> </ul>
М	F16L 55/04	<ul> <li>Devices damping pulsations or vibrations in fluids {(<u>F16L 55/02</u> takes precedence; counter-acting cavitation in pumps F04B 39/00; springs, shock absorbers, means for damping vibration in general F16F; means in valves for absorbing fluid energy F16K 47/00)}</li> </ul>
U	F16L 55/045	<ul> <li>specially adapted to prevent or minimise the effects of water hammer</li> </ul>
М	F16L 55/05	<ul> <li>Buffers therefor (accumulators F15B 1/04)</li> </ul>
М	F16L 55/07	<ul> <li>Arrangement or mounting of devices, e.g. valves, for venting or aerating or draining (arrangement of draining devices in water supply systems E03B 7/08; apparatus for draining F16K, F16T; venting or aerating devices per se F16K 24/00apparatus for draining F16T)</li> </ul>
Μ	F16L 55/09	<ul> <li>Air conditioning, e.g. de-watering, in pneumatic systems (in general F24)</li> </ul>
U	F16L 55/16	<ul> <li>Devices for covering leaks in pipes or hoses, e.g. hose-menders</li> </ul>
U	F16L 55/162	<ul> <li>from inside the pipe {(F16L 55/1612 takes precedence)}</li> </ul>
Μ	F16L 55/164	<ul> <li>• a sealing fluid being introduced in the pipe (F16L 55/1645 takes precedence)</li> </ul>
Μ	F16L 55/165	<ul> <li>• • a pipe {or flexible liner} being inserted in the damaged section</li></ul>
U	F16L 55/168	<ul> <li>from outside the pipe</li> </ul>
Μ	F16L 55/17	<ul> <li>• • by means of rings, bands or sleeves pressed against the outside surface of the pipe or hose (hose-clips for connecting hoses to rigid members F16L 33/02)</li> </ul>
Μ	F16L 55/179	<ul> <li>specially adapted for bends, branch units, branching pipes or the like {(tools F16L 55/265)}</li> </ul>
Μ	F16L 55/18	<ul> <li>Appliances for use in repairing pipes (<u>F16L 55/10</u> takes precedence {; pigs or moles F16L 55/26})</li> </ul>
Μ	F16L 55/24	<ul> <li>Preventing accumulation of dirt or other matter in the pipes, e.g. by traps, by strainers -{(preventing accumulation in pneumatic conveyors B65G 53/521)}</li> </ul>
М	F16L 55/26	<ul> <li>Pigs or moles, i.e. devices movable in a pipe or conduit with or without self- contained propulsion means (tunnel railway systems B61B 13/10; conveying articles through pipes or tubes, e.g. tube mail systems, B65G 51/00)</li> </ul>
		<u>NOTES</u> <ol> <li>Pigs or moles specially adapted for particular applications are classified in the relevant places for the applications, e.g.</li> <li>stopping flow from or in pipes or hoses <u>F16L 55/12</u></li> <li>repairing pipes <u>F16L 55/18</u></li> <li>applying liquids or other fluent materials to the inside of tubes <u>B05C 7/08</u></li> <li>cleaning pipes or tubes or systems of pipes or tubes <u>B08B 9/02</u></li> <li>welding or cutting <u>B23K 37/02</u></li> </ol>

		<ul> <li>earth drilling <u>E21B</u></li> <li>{separating products <u>F17D 3/08;</u>}</li> <li>cleaning chimneys <u>F23J 3/02</u></li> <li>cleaning internal or external surfaces of heat-exchange or heat-transfer conduits <u>F28G</u></li> <li>measuring, testing <u>G01</u></li> <li>inspection of vessels in nuclear reactors <u>G21C 17/003</u></li> <li>inspection or maintenance of pipe-lines or tubes in nuclear installations <u>G21C 17/017</u> installing electric, or combined optical and electric, cables or lines <u>H02G</u></li> <li>In this group, it is desirable to add the indexing codes of group <u>F16L 2101/00</u>.</li> </ul>
Μ	F16L 55/265	<ul> <li>- {specially adapted for work at or near a junction between a main and a lateral pipe}</li> </ul>
		NOTES
		<ol> <li>Pigs or moles specially adapted for particular applications are classified in the relevant places for the applications, e.g.</li> <li>stopping flow from or in pipes or hoses F16L 55/12</li> </ol>
		<ul> <li>repairing pipes F16L 55/18</li> <li>applying liquids or other fluent materials to the inside of tubes B05C 7/08</li> </ul>
		<ul> <li>cleaning pipes or tubes or systems of pipes or tubes B08B 9/02</li> <li>welding or cutting B23K 37/02</li> <li>earth drilling E21B</li> </ul>
		<ul> <li>Earth drilling L21B</li> <li>{separating products F17D 3/08;}</li> </ul>
		<ul> <li>cleaning chimneys F23J 3/02</li> </ul>
		<ul> <li>cleaning internal or external surfaces of heat-exchange or heat-transfer conduits F28G</li> </ul>
		<ul> <li>measuring, testing G01</li> <li>inspection of vessels in nuclear reactors G21C 17/003</li> </ul>
		<ul> <li>inspection or maintenance of pipe-lines or tubes in nuclear installations G21C 17/017</li> </ul>
		• installing electric, or combined optical and electric, cables or lines H02G
		2. In groups F16L 55/26 - F16L 55/48, the indexing codes of F16L 2101/00 - F16L 2101/70 are added
М	F16L 57/00	Protection of pipes or objects of similar shape against external or internal damage or wear ({protection under water <u>F16L 1/123;</u> } supporting of pipes inside other pipes or sleeves <u>F16L 7/00</u> ; used in connection with end fittings of hoses <u>F16L 35/00</u> ; protection thereof during transport <u>B65D, e.g.</u> <u>B65D 59/00</u> ; {for steam boilers F22B 37/107})
М	F16L 58/00	Protection of pipes or pipe fittings against corrosion or incrustation ( <del>supporting of pipes inside other pipes or sleeves F16L 7/00;</del> compound tubes <u>F16L 9/14; cleaning pipes or tubes B08B 9/02</u> )
Μ	F16L 58/02	<ul> <li>by means of internal or external coatings (coatings for thermal insulation F16L 59/00; methods or machines for applying coatings see the relevant classes, e.g. B28B 21/00)</li> </ul>
Μ	F16L 58/04	<ul> <li>Coatings characterised by the materials used (<u>F16L 58/16</u> takes precedence; compositions, <u>see</u> the relevant classes, e.g. C04B)</li> </ul>
Μ	F16L 58/16	<ul> <li>the coating being in the form of a bandage (apparatus for covering cores by winding B65H 81/00)</li> </ul>
Μ	F16L 58/18	<ul> <li>specially adapted for pipe fittings {(non-disconnectible joints of coated pipes F16L 13/0254; screw joints for coated pipes comprising pipes with collars or flanges F16L 19/0243)}</li> </ul>

Μ	F16L 59/00	Thermal insulation in general (heat, sound insulation in buildings E04B; heat insulation of steam engines F01B 31/08; {thermal or acoustic isolation for combustion engines F02B 77/11}; heat insulation in rotary piston machines F01C 21/06; heat insulation of pumps F04C 29/04; thermal insulation of pressure vessels F17C 1/12; vessels not under pressure, with provision for insulation F17C 3/02)
Μ	F16L 59/12	<ul> <li>Arrangements for supporting insulation from the wall or body insulated, e.g. by means of spacers between pipe and heat-insulating material; Arrangements specially adapted for supporting insulated bodies</li></ul>
М	F16L 59/121	<ul> <li>• {for pipes passing through walls or partitions (in general F16L 5/00)}</li> </ul>
U	F16L 59/14	<ul> <li>Arrangements for the insulation of pipes or pipe systems (<u>F16L 59/02</u> - <u>F16L 59/12</u> take precedence)</li> </ul>
Μ	F16L 59/16	<ul> <li>Arrangements specially adapted to local requirements at flanges, junctions, valves or the like (means in or on valves for heating or cooling F16K 49/00)</li> </ul>
М	F16L 59/21	<ul> <li>• • adapted for expansion-compensation devices {(in general F16L 51/00)}</li> </ul>
Pro	ject: RP0545 (B60N	1)
М	B60N	SEATS SPECIALLY ADAPTED FOR VEHICLES; VEHICLE PASSENGER ACCOMMODATION NOT OTHERWISE PROVIDED FOR
		NOTES
		1. Attention is drawn to the Explanatory Note following the class title $\underline{B60}$
		<ul> <li>2. In this subclass the following term is used with the meaning indicated:</li> <li>"cushion": seating part of a seat distinguished from the back-rest</li> </ul>
		WARNING
		In this subclass non-limiting references (in the sense of paragraph 39 of the Guide to the IPC) may still be displayed in the scheme.
Μ	B60N 2/00	Seats specially adapted for vehicles; Seats specially adapted for Arrangement or mounting of seats in vehicles (for facilitating access of invalids to, or exit of invalids from, vehicles A61G 3/02; railway seats B61D 33/00; cycle seats B62J 1/00; aircraft seats B64D 11/06, B64D 25/04, B64D 25/10)
Μ	B60N 2/002	<ul> <li>{Passenger detection systems (weighing apparatus, e.g. for airbag systems G01G 19/4142)}</li> </ul>
U	B60N 2/005	<ul> <li>Arrangement or mounting of seats in vehicles {, e.g. dismountable auxiliary seats}(<u>B60N 2/02</u> takes precedence {; for railway vehicles <u>B61D 1/04</u>})</li> </ul>
U	B60N 2/015	<ul> <li>Attaching seats directly to vehicle chassis</li> </ul>
U	B60N 2/01508	<ul> <li>• • {using quick release attachments}</li> </ul>
U	B60N 2/01516	• • • {with locking mechanisms}
U	B60N 2/01525	<ul> <li>• • • {with locking elements expanding inside or under the vehicle floor or rail}</li> </ul>
Μ	B60N 2/01533	<ul> <li> {using balls interlocking with notches (interlocking balls in general E05B 63/121)}</li> </ul>
U	B60N 2/02	<ul> <li>the seat or part thereof being movable, e.g. adjustable (adjustable arm-rests <u>B60N 2/75</u>; adjustable head-rests <u>B60N 2/806</u>)</li> </ul>
U	B60N 2/04	<ul> <li>the whole seat being movable</li> </ul>
М	B60N 2/06	<ul> <li>• • slidable (<u>B60N 2/12</u> {, <u>B60N 2/2209</u>} takes take precedence)</li> </ul>
М	B60N 2/10	• • tiltable {( <u>B60N 2/12</u> {, B60N 2/2875 takes} take precedence)}

Μ	B60N 2/14	<ul> <li>rotatable, e.g. to permit easy access {(<u>B60N 2/10</u> {, <u>B60N 2/2869 takes</u>} take precedence)}</li> </ul>
U	B60N 2/16	
Μ	B60N 2/169	<ul> <li>• • • {Stepwise movement mechanisms, e.g. ratchets (<u>B60N 2/167</u> takes precedence; ratchets in general G05G 7/06)}</li> </ul>
U	B60N 2/18	<ul> <li>• • the front or the rear portion of the seat being adjustable, e.g. independently of each other</li> </ul>
Μ	B60N 2/1896	<ul> <li>• • • • {Stepwise movement mechanisms, e.g. ratchets (<u>B60N 2/1882</u> takes precedence; ratchets in general G05G 7/06)}</li> </ul>
Μ	B60N 2/20	<ul> <li>the back-rest being tiltable, e.g. to permit easy access ({B60N 2/0224}, B60N 2/04, B60N 2/22, {, B60N 2/3002} take precedence)</li> </ul>
U	B60N 2/22	<ul> <li>the back-rest being adjustable {(<u>B60N 2/2878</u> takes precedence)}</li> </ul>
Μ	B60N 2/224	<ul> <li>• • {Stepwise movement mechanisms, e.g. ratchets (ratchets in general G05G 7/06)}</li> </ul>
Μ	B60N 2/225	<ul> <li>• by cycloidal or planetary mechanisms -{(transmissions with orbital motion in general F16H 1/28, F16H 1/32)}</li> </ul>
Μ	B60N 2/2251	<ul> <li>• • {with gears having orbital motion, e.g. sun and planet gears (in general F16H 1/28)}</li> </ul>
Μ	B60N 2/2252	<ul> <li>• • {in which the central axis of the gearing lies inside the periphery of an orbital gear, e.g. one gear without sun gear (in general F16H 1/32)}</li> </ul>
U	B60N 2/24	<ul> <li>for particular purposes or particular vehicles</li> </ul>
Μ	B60N 2/245	<ul> <li>• {for handicapped persons (facilitating access or loading of wheelchairs in ambulances A61G 3/00)}</li> </ul>
U	B60N 2/26	<ul> <li>for children (<u>B60N 2/30</u> takes precedence)</li> </ul>
U	B60N 2/28	<ul> <li>Seats readily mountable on, and dismountable from, existing seats {or other parts} of the vehicle</li> </ul>
Μ	B60N 2/2803	<ul> <li>• • {Adaptations for seat belts (seat belts for children in general B60R 22/105)}</li> </ul>
U	B60N 2/2842	<ul> <li>• • {adapted to carry the child, when dismounted from the vehicle}</li> </ul>
Μ	B60N 2/2848	<ul> <li>•••• {being convertible or adaptable roto carriage or a push-chair (preambulators in general B62B 7/14)}</li> </ul>
М	B60N 2/2854	<ul> <li>• • • {Children's cots; Hammocks (children's chairs in general A47D 1/00)}</li> </ul>
Μ	B60N 2/30	<ul> <li>Non-dismountable {or dismountable} seats storable in a non-use position, e.g. foldable spare seats (convertible for other use B60N 2/32)</li> </ul>
U	B60N 2/32	convertible for other use
М	B60N 2/34	<ul> <li>• into a bed (sleeping arrangements in caravans B60P 3/38)</li> </ul>
Μ	B60N 2/36	<ul> <li>• into a loading platform {(ski-bags in B60R 5/006, B60N 2/065 takes precedence)}</li> </ul>
U	B60N 3/00	Arrangements or adaptations of other passenger fittings, not otherwise provided for (of radio sets, television sets, telephones, {stowing or holding appliances} , safety belts or the like <u>B60R</u> )
Μ	B60N 3/001	<ul> <li>{of tables or trays (detachable tables in general with provisions for use in vehicles A47B 31/06)}</li> </ul>
Μ	B60N 3/008	<ul> <li>{of beds (travelling or camp beds adapted to be used in, or connected to, a vehicle A47C 17/80)}</li> </ul>
М	B60N 3/06	<ul> <li>of footrests (floors of road vehicles (B62D 25/20))</li> </ul>
М	B60N 3/08	<ul> <li>of receptacles for refuse, e.g. ash-trays (ashtrays per se A24F)</li> </ul>
Μ	B60N 3/10	<ul> <li>of receptacles for food or beverages, e.g. refrigerated (picnic sets A45F {; cup holders in general A47G 23/02})</li> </ul>

Μ	B60N 3/12	<ul> <li>of receptacles for cigarettes or the like ({B60N 2/793 takes precedence;} receptacles for cigarettes or the like A24F)</li> </ul>
М	B60N 3/14	<ul> <li>of electrically-heated lighters {(arrangements of lighting devices for vehicle interiors for lighting passenger or driving compartment B60Q 3/20; igniters using electrically-produced heat F23Q 7/00)}</li> </ul>
М	B60N 3/16	<ul> <li>of cooking or boiling devices (cooking of boiling devices per se A47, F24C)</li> </ul>
М	B60N 5/00	Arrangements or devices on vehicles for entrance or exit control of passengers, e.g. turnstiles (turnstiles in general E06B 11/08)
Pro	ject: RP0555 (G01R	)
U	G01R 1/00	Details of instruments or arrangements of the types included in groups $G01R 5/00$ - $G01R 13/00$ and $G01R 31/00$ (constructional details particular to {electromechanical} arrangements for measuring the electric consumption $G01R 11/02$ )
U	G01R 1/02	<ul> <li>General constructional details (details of a kind applicable to measuring arrangements not specially adapted for a specific variable <u>G01D 7/00</u>)</li> </ul>
U	G01R 1/04	<ul> <li>Housings; Supporting members; Arrangements of terminals ("burn-in" aspects <u>G01R 31/286</u>; terminals <u>H01R</u>; terminal strips or boards <u>H02B</u>; housings for electrical apparatus <u>H05K</u>)</li> </ul>
U	G01R 1/0408	<ul> <li>{Test fixtures or contact fields; Connectors or connecting adaptors; Test clips; Test sockets (<u>G01R 1/067</u> takes precedence; mass production testing systems <u>G01R 31/01</u>; testing of connections <u>G01R 31/04</u>; for testing printed circuit boards <u>G01R 31/2808</u>)}</li> </ul>
М	G01R 1/0416	<ul> <li>• • • {Connectors, terminals (<u>G01R 1/0425</u> and <u>G01R 1/0433</u> take precedence; with measurement function for battery poles <u>G01R 31/3696</u><u>G01R 31/364</u>; in general H01R)}</li> </ul>
U	G01R 31/00	Arrangements for testing electric properties; Arrangements for locating electric faults; Arrangements for electrical testing characterised by what is being tested not provided for elsewhere ({measuring superconductive properties <u>G01R 33/1238;</u> } testing or measuring semiconductors or solid state devices during manufacture { <u>H01L 22/00</u> }; testing line transmission systems <u>H04B 3/46</u> )
U	G01R 31/02	<ul> <li>Testing of electric apparatus, lines or components, for short-circuits, discontinuities, leakage {of current}, or incorrect line connection {(<u>G01R 31/001</u>, <u>G01R 31/005</u>, <u>G01R 31/01</u>, <u>G01R 31/08</u>, <u>G01R 31/12</u>, <u>G01R 31/24</u>, <u>G01R 31/26</u>, <u>G01R 31/28</u>, <u>G01R 31/327</u>, <u>G01R 31/34</u>, <u>G01R 31/36</u>, <u>G01R 31/40</u>, <u>G01R 31/44</u> take precedence; measuring electromagnetic field leakage <u>G01R 29/0821</u>; testing of sparking plugs <u>H01T 13/58</u>)}</li> </ul>
Μ	G01R 31/07	<ul> <li>Testing of fuses (means for indicating condition of fuse structurally associated with the fuse H01H 85/30)</li> </ul>
М	G01R 31/08	<ul> <li>Locating faults in cables, transmission lines, or networks (emergency protective circuit arrangements H02H {; installing, maintaining, repairing or dismantling electric cables or lines H02G 1/00; testing LAN's H04L 43/50})</li> </ul>
U	G01R 31/28	<ul> <li>Testing of electronic circuits, e.g. by signal tracer ({EMC, EMP or similar testing of electronic circuits <u>G01R 31/002</u>}; testing for short-circuits, discontinuities, leakage or incorrect line connection <u>G01R 31/02</u>; checking computers {or computer components} <u>G06F 11/00</u>; checking static stores for correct operation <u>G11C 29/00</u>; {testing receivers or transmitters of transmission systems <u>H04B 17/00</u>})</li> </ul>
М	G01R 31/30	<ul> <li>Marginal testing, e.g. by varying supply voltage (marginal testing of computers G06testing computers during standby operation or idle time G06F 11/22)</li> </ul>

Μ	G01R 31/327	<ul> <li>Testing of circuit interrupters, switches or circuit-breakers (structural association with switches H01H; {detecting faults in encased switchgear H02B 13/065; monitoring in addition to disconnection by a protective circuit H02H 3/04})</li> </ul>
Μ	G01R 31/333	<ul> <li>Testing of the switching capacity of high-voltage circuit-breakers {; {Testing of breaking capacity or related variables, e.g. post arc current or transient recovery voltage}(means for detecting the presence of an arc or discharge in switching devices H01H 9/50, H01H 33/26)</li> </ul>
E	G01R 31/36	<ul> <li>Apparatus Arrangements for testing-, measuring or monitoring the electrical condition of accumulators or electric batteries, e.g. capacity or state of charge condition [SoC](accumulators combined with arrangements for measuring, testing or indicating condition H01M 10/48; circuit arrangements for charging, or depolarising batteries or for supplying loads from batteries H02J 7/00; {Coulomb meters G01R 22/00; indicating the condition of the power supply in clocks or watches G04C 10/04; methods for controlling fuel cells H01M 8/04298})</li> </ul>
		NOTE {This group <u>covers</u> arrangements for measuring, testing or indicating electrical conditions or variables of accumulators or electric batteries. Accumulators combined with arrangements Arrangements for monitoring, measuring, testing or indicating condition, or arrangements for measuring, testing or indicating conditions or variables other than electrical, e.g. level or density of <u>structurally</u> associated with the battery <u>electrolyte</u> , are covered by the <u>H01M</u> -, e.g. by group H01M 10/48 and subgroups }
D	G01R 2031/3603	<ul> <li>{Deleted} <administratively <u="" to="" transferred="">G01R 31/36&gt;</administratively></li> </ul>
D	G01R 31/3606	<ul> <li>{Monitoring, i.e. measuring or determining some variables continuously or repeatedly over time, e.g. current, voltage, temperature, state-of- charge [SoC] or state-of-health [SoH] (G01R 31/3627, G01R 31/3644 take precedence)}</li> <li><administratively 31="" 382="" g01r="" to="" transferred=""></administratively></li> </ul>
D	G01R 31/361	<ul> <li>+ + {using current integration}</li> <li><administratively 31="" 3828="" g01r="" to="" transferred=""></administratively></li> </ul>
D	G01R 31/3613	<ul> <li>+ + {without voltage measurement}</li> <li><administratively 31="" 3832="" g01r="" to="" transferred=""></administratively></li> </ul>
D	G01R 31/3617	<ul> <li>· · · · {using analog integrators, e.g. coulomb-meters}</li> <li><administratively 31="" 3833="" g01r="" to="" transferred=""></administratively></li> </ul>
D	G01R 31/362	<ul> <li>+ {based on measuring voltage only (by comparing voltage with a reference value G01R 19/16542)}</li> <li><administratively 31="" 3835<="" g01r="" li="" to="" transferred=""> </administratively></li></ul>
D	G01R 31/3624	<ul> <li>+ {based on combined voltage and current measurement (G01R 31/361 takes precedence)}</li> <li><administratively 31="" 3842="" g01r="" to="" transferred=""></administratively></li> </ul>
D	G01R 31/3627	<ul> <li>{Testing, i.e. making a one-time determination of some variables, e.g. testing ampere-hour charge capacity (G01R 31/3644 takes precedence)}</li> <li><administratively 31="" 385="" g01r="" to="" transferred=""></administratively></li> </ul>
D	G01R 31/3631	<ul> <li>+ {based on the use of test loads} <administratively 31="" 386<="" g01r="" li="" to="" transferred=""> </administratively></li></ul>
D	G01R 31/3634	<ul> <li>• {for determining the ampere-hour charge capacity or state-of-charge (SoC) (G01R 31/3631 takes precedence)}</li> <li><administratively 31="" 387<="" g01r="" li="" to="" transferred=""> </administratively></li></ul>
D	G01R 31/3637	<ul> <li>+ + {based on voltage measurements} &lt; administratively transferred to G01R 31/388&gt;</li> </ul>
Ν	G01R 31/364	<ul> <li>Battery terminal connectors with integrated measuring arrangements</li> </ul>

D	G01R 31/3641	<ul> <li>• {related to manufacture, e.g. testing after manufacture}</li> <li><administratively 31="" 3865<="" g01r="" li="" to="" transferred=""> </administratively></li></ul>
Μ	G01R 31/3644	<ul> <li>{Various constructional Constructional arrangements}</li> </ul>
Ν	G01R 31/3646	<ul> <li>• {for indicating electrical conditions or variables, e.g. visual or audible indicators}</li> </ul>
Ν	G01R 31/3647	<ul> <li>• {for determining the ability of a battery to perform a critical function, e.g. cranking}</li> </ul>
U	G01R 31/3648	<ul> <li>• {comprising digital calculation means, e.g. for performing an algorithm}</li> </ul>
D	G01R 31/3651	<ul> <li> <ul> <li>Software aspects, e.g. battery modeling, using look-up tables, neural networks}</li> <li>administratively transferred to G01R 31/367</li> </ul> </li> </ul>
D	G01R 31/3655	<ul> <li> <ul> <li></li></ul></li></ul>
D	G01R 31/3658	<ul> <li>• {for testing or monitoring individual cells or groups of cells in a battery} <administratively 31="" 396<="" g01r="" li="" to="" transferred=""> </administratively></li></ul>
D	G01R 31/3662	<ul> <li> <ul> <li></li></ul></li></ul>
D	G01R 31/3665	<ul> <li>• {whereby the type of battery is of primary emphasis, e.g. determining the type of battery}</li> <li><administratively 31="" 378<="" g01r="" li="" to="" transferred=""> </administratively></li></ul>
D	G01R 31/3668	<ul> <li> <ul> <li></li></ul></li></ul>
Ν	G01R 31/367	Software therefor, e.g. for battery testing using modelling or look-up tables
D	G01R 31/3672	<ul> <li> <ul> <li></li></ul></li></ul>
D	G01R 31/3675	<ul> <li>• {for compensating for temperature or ageing}</li> <li><administratively 31="" 374<="" g01r="" li="" to="" transferred=""> </administratively></li></ul>
D	G01R 31/3679	<ul> <li>• {for determining battery ageing or deterioration, e.g. state-of-health (SoH), state-of-life (SoL)}</li> <li><administratively 31="" 392="" g01r="" to="" transferred=""></administratively></li> </ul>
D	G01R 31/3682	<ul> <li>• {for indicating electrical conditions or variables, e.g. visual or audible indicators}</li> <li><administratively 31="" 3646="" g01r="" to="" transferred=""></administratively></li> </ul>
D	G01R 31/3686	<ul> <li>• • {the indicator being combined with the battery}</li> <li><administratively 10="" 48="" h01m="" to="" transferred=""></administratively></li> </ul>
D	G01R 31/3689	<ul> <li></li></ul>
D	G01R 31/3693	<ul> <li>• {for determining the ability of a battery to perform a critical function, e.g. cranking}</li> <li><administratively 31="" 3647<="" g01r="" li="" to="" transferred=""> </administratively></li></ul>
D	G01R 31/3696	<ul> <li>• {Battery pole connectors combined with measurement function (end pieces for connections to batteries H01R 11/281)}</li> <li><administratively 31="" 364="" g01r="" to="" transferred=""></administratively></li> </ul>
Ν	G01R 31/371	with remote indication, e.g. on external chargers
Ν	G01R 31/374	<ul> <li>with means for correcting the measurement for temperature or ageing</li> </ul>
Ν	G01R 31/378	<ul> <li>specially adapted for the type of battery or accumulator</li> </ul>
Ν	G01R 31/379	for lead-acid batteries
Ν	G01R 31/38	<ul> <li>• • {Primary cells, i.e. not rechargeable}</li> </ul>

Ν	G01R 31/382	<ul> <li>Arrangements for monitoring battery or accumulator variables, e.g. SoC</li> </ul>
Ν	G01R 31/3828	• • using current integration
Ν	G01R 31/3832	• • • without measurement of battery voltage
Ν	G01R 31/3833	••••• {using analog integrators, e.g. coulomb-meters}
Ν	G01R 31/3835	• • involving only voltage measurements
Ν	G01R 31/3842	• • combining voltage and current measurements
Ν	G01R 31/385	Arrangements for measuring battery or accumulator variables (for monitoring <u>G01R 31/382</u> )
Ν	G01R 31/386	<ul> <li>• {using test-loads}</li> </ul>
Ν	G01R 31/3865	<ul> <li>• {related to manufacture, e.g. testing after manufacture}</li> </ul>
Ν	G01R 31/387	• • • Determining ampere-hour charge capacity or SoC
Ν	G01R 31/388	• • • involving voltage measurements
Ν	G01R 31/389	Aeasuring internal impedance, internal conductance or related variables
Ν	G01R 31/392	<ul> <li>Determining battery ageing or deterioration, e.g. state of health</li> </ul>
Ν	G01R 31/396	<ul> <li>Acquisition or processing of data for testing or for monitoring individual cells or groups of cells within a battery</li> </ul>
U	G01R 31/40	<ul> <li>Testing power supplies (testing photovoltaic devices <u>H02S 50/10</u>)</li> </ul>
Μ	G01R 31/42	<ul> <li>AC power supplies {(testing photovoltaic modules after manfucture H02S 50/10)}</li> </ul>
Μ	G01R 31/44	<ul> <li>Testing lamps (discharge lamps G01R 31/24; structurally associated with light source circuit arrangements for detecting lamp failure H05B 37/03)</li> </ul>

#### Project: RP0556 (G02F)

### U G02F 1/00

Devices or arrangements for the control of the intensity, colour, phase, polarisation or direction of light arriving from an independent light source, e.g. switching, gating, or modulating; Non-linear optics (thermometers using change of colour or translucency <u>G01K 11/12</u>; using changes in fluorescence <u>G01K 11/32</u>; light guide devices <u>G02B 6/00</u>; optical devices or arrangements using movable or deformable elements for controlling light independent of the light source <u>G02B 26/00</u>; control of light in general <u>G05D 25/00</u>; visible signalling systems <u>G08B 5/00</u>; indicating arrangements for variable information by selection or combination of individual elements <u>G09F 9/00</u>; control arrangements or circuits for visual indicators other than cathode-ray tubes <u>G09G 3/00</u>; control of light sources <u>H01S 3/10</u>, <u>H05B 33/08</u>, <u>H05B 35/00</u> - <u>H05B 43/00</u>; {photochromic filters <u>G02B 5/23</u>; optical logic elements <u>G02F 3/00</u>}

### <u>NOTE</u>

This group covers only :

- devices or arrangements, e.g. cells, the optical operation of which is modified by changing the optical properties of the medium of the devices or arrangements by the influence or control of physical parameters, e.g. electric fields, electric current, magnetic fields, sound or mechanical vibrations, stress or thermal effects;
- devices or arrangements in which the electric or magnetic field component of the light beams influences the optical properties of the medium, i.e. nonlinear optics;
- control of light by electromagnetic waves, e.g. radio waves, or by electrons or other elementary particles.

С	G02F 1/01	<ul> <li>for the control of the intensity, phase, polarisation or colour (<u>G02F 1/29</u>, <u>G02F 1/35</u> take precedence; polarising elements per se G02B 5/30; static storage per se G11C; image tube screens acting as light valves by shutter operation H01J 29/12; such screens acting by discoloration H01J 29/14; {projection arrangements for television image reproduction, e.g. using eidophor H04N 5/74; recording by light G11B 7/00 - G11B 11/00})</li> </ul>
		<u>WARNING</u> Group <u>G02F 1/01</u> is impacted by reclassification into groups <u>G02F 1/165,</u> <u>G02F 1/166, G02F 1/1673</u> , and <u>G02F 1/169</u> . All groups listed in this Warning should be considered in order to perform a complete search.
U	G02F 1/13	<ul> <li>based on liquid crystals, e.g. single liquid crystal display cells (liquid crystal materials <u>C09K 19/00</u>)</li> </ul>
U	G02F 1/133	<ul> <li>Constructional arrangements; Operation of liquid crystal cells; Circuit arrangements (arrangements or circuits for control of liquid crystal elements in a {segment display or a} matrix, not structurally associated with these elements, {respectively <u>G09G 3/18</u> and } <u>G09G 3/36</u>)</li> </ul>
U	G02F 1/1333	<ul> <li>Constructional arrangements; {Manufacturing methods}(<u>G02F 1/135</u>, <u>G02F 1/136</u> take precedence)</li> </ul>
Μ	G02F 1/1335	<ul> <li>Structural association of <u>cells with</u> optical devices, e.g. polarisers, reflectors or illuminating devices, with the cellreflectors</li> </ul>
Μ	G02F 1/1339	<ul> <li>Gaskets; Spacers <del>{, also spacers with conducting properties (electric line connectors H01R)}</del>; Sealing of the cellcells</li> </ul>
Μ	G02F 1/1341	<ul> <li>Filling or closing of the cell {cells(G02F 1/133365, G02F 1/1334 take precedence)}</li> </ul>
М	G02F 1/137	<ul> <li>characterised by a particular the electro-optical or magneto-optical effect, e.g. field-induced phase transition, orientation effect, guest-host interaction, or dynamic scattering</li> </ul>
С	G02F 1/15	<ul> <li>based on an electrochromic elements {effect(electrochromic materials C09K 9/00)}</li> </ul>
		WARNING
		Group <u>G02F 1/15</u> is impacted by reclassification into groups <u>G02F 1/1514</u> and <u>G02F 1/1516</u> . All groups listed in this Warning should be considered in order to perform a
		complete search.
U	G02F 2001/1502	· · · {complementary cell}
Ν	G02F 2001/15025	<ul> <li>• • {having an inorganic electrochromic layer and a second solid organic electrochromic layer}</li> </ul>
Ν	G02F 1/1503	<ul> <li>caused by oxidation-reduction reactions in organic liquid solutions, e.g. viologen solutions</li> </ul>
D	G02F 2001/1504	<ul> <li> <ul> <li></li></ul></li></ul>
Μ	G02F 1/1506	<ul> <li>         • • {based on caused by electrodeposition, e.g. electrolytic deposition of a non- organican inorganic material on or in the vicinity of close to an electrode}     </li> </ul>
D	G02F 2001/151	<ul> <li> <ul> <li></li></ul></li></ul>
D	G02F 2001/1512	<ul> <li>• {the electrochromic layer comprises a mixture of anodic and cathodic compounds} <administratively 15145="" 2001="" add="" g02f="" to="" transferred=""></administratively></li> </ul>

Ν	G02F 1/1514	<ul> <li>characterised by the electrochromic material, e.g. by the electrodeposited material</li> </ul>
		<u>WARNING</u> Group <u>G02F 1/1514</u> is incomplete pending reclassification of documents from group <u>G02F 1/15</u> . Groups <u>G02F 1/15</u> and <u>G02F 1/1514</u> should be considered in order to perform a complete search.
Ν	G02F 2001/15145	<ul> <li>• • {the electrochromic layer comprises a mixture of anodic and cathodic compounds}</li> </ul>
D	G02F 2001/1515	<ul> <li>• {the electrochromic material is made of polymer}</li> <li><administratively 1="" 15165="" g02f="" to="" transferred=""></administratively></li> </ul>
Ν	G02F 1/1516	<ul> <li>• • • comprising organic material <u>WARNING</u> Group <u>G02F 1/1516</u> is incomplete pending reclassification of documents from group <u>G02F 1/15</u>. Groups <u>G02F 1/15</u> and <u>G02F 1/1516</u> should be considered in order to perform a complete search.</li> </ul>
Ν	G02F 1/15165	•••• {Polymers}
Μ	G02F 2001/1517	<ul> <li>• • • • • • • • • • • • • • • • • • •</li></ul>
Ν	G02F 2001/1518	•••• {Ferrocene compounds}
D	G02F 2001/1519	<ul> <li>• • {the electrolyte is made of polymer}</li> <li><administratively 164="" 2001="" add="" g02f="" to="" transferred=""></administratively></li> </ul>
D	G02F 1/1521	<ul> <li>• {based on oxidation reduction in organic liquid solutions, e.g. viologens solutions}</li> <li><administratively 1="" 1503<="" g02f="" li="" to="" transferred=""> </administratively></li></ul>
С	G02F 1/1523	<ul> <li>{based on solid comprising inorganic materials, e.g. transition metal compounds, e.g. in combination with a liquid or solid electrolyte material (G02F 1/1506 takes precedence)}</li> </ul>
		WARNING Group <u>G02F 1/1523</u> is impacted by reclassification into group <u>G02F 1/1524</u> . Groups <u>G02F 1/1523</u> and <u>G02F 1/1524</u> should be considered in order to perform a complete search.
Ν	G02F 1/1524	• • • • Transition metal compounds
		WARNING
		Group <u>G02F 1/1524</u> is incomplete pending reclassification of documents from group <u>G02F 1/1523</u> . Groups <u>G02F 1/1523</u> and <u>G02F 1/1524</u> should be considered in order to perform a complete search.
Ν	G02F 1/15245	••••• {based on iridium oxide or hydroxide}
Μ	G02F 1/1525	<ul> <li></li></ul>
D	G02F 1/1527	<ul> <li>+ + {based on iridium oxide or hydroxide}</li> <li><administratively 1="" 15245<="" g02f="" li="" to="" transferred=""> </administratively></li></ul>
М	G02F 1/153	<ul> <li>Constructional arrangements details</li> </ul>
Μ	G02F 1/157	<ul> <li>Structural association of <u>cells with</u> optical devices, e.g. reflectors or illuminating devices, with the cell</li> </ul>
М	G02F 1/161	•••• Gaskets; Spacers; Sealing of the cellcells; Filling or closing of the cellcells

Μ	G02F 1/163	<ul> <li>Operation of electrochromic cells, e.g. electrodeposition cells; Circuit arrangements therefor</li> </ul>
U	G02F 2001/1635	• • • {the pixel comprises active switching elements, e.g. TFT}
Ν	G02F 2001/164	<ul> <li>• {the electrolyte is made of polymers}</li> </ul>
Ν	G02F 1/165	<ul> <li>based on translational movement of particles in a fluid under the influence of an applied field</li> </ul>
		<u>WARNING</u> Group <u>G02F 1/165</u> is incomplete pending reclassification of documents from groups <u>G02F 1/01</u> , <u>G02F 1/17</u> , and <u>G02F 1/19</u> . All groups listed above should be considered in order to perform a complete search.
Ν	G02F 1/166	• • characterised by the electro-optical or magneto-optical effect
		<u>WARNING</u> Group <u>G02F 1/166</u> is incomplete pending reclassification of documents from group <u>G02F 1/01</u> , <u>G02F 1/17</u> , and <u>G02F 1/19</u> . All groups listed above should be considered in order to perform a complete search.
С	G02F 1/167	<ul> <li>based on by electrophoresis</li> </ul>
		<u>WARNING</u>
		Group <u>G02F 1/167</u> is impacted by reclassification into groups <u>G02F 1/1675, G02F 1/16753, G02F 1/16755, G02F 1/16756,</u> <u>G02F 1/16757, G02F 1/1677, G02F 1/1679,</u> and <u>G02F 1/1685</u> . All groups listed in this Warning should be considered in order to perform a complete search.
Ν	G02F 1/1671	• • • • involving dry toners
D	G02F 2001/1672	<ul> <li>+ {of the microcup type}</li> <li><administratively 1="" 1681="" g02f="" to="" transferred=""></administratively></li> </ul>
Ν	G02F 1/1673	•••• by magnetophoresis
		WARNING
		Group <u>G02F 1/1673</u> is incomplete pending reclassification of documents from group <u>G02F 1/01</u> , <u>G02F 1/17</u> , and <u>G02F 1/19</u> .
		All groups listed above should be considered in order to perform a complete search.
D	G02F 2001/1674	<ul> <li>         •          •          <del>(comprising a dry toner particle)</del> </li> <li> <li> </li> <li> </li><li> </li> <li></li></li></ul>
Ν	G02F 1/1675	
		WARNING
		Group <u>G02F 1/1675</u> is incomplete pending reclassification of documents from group <u>G02F 1/167</u> , <u>G02F 1/17</u> , and <u>G02F 1/19</u> . All groups listed above should be considered in order to perform a
		complete search.
Ν	G02F 1/16753	•••• Structures for supporting or mounting cells, e.g. frames or bezels
		WARNING
		Group <u>G02F 1/16753</u> is incomplete pending reclassification of documents from group <u>G02F 1/167</u> , <u>G02F 1/17</u> , and <u>G02F 1/19</u> . All groups listed above should be considered in order to perform a
		complete search.

Ν	G02F 1/16755	• • • • Substrates
		<u>WARNING</u> Group <u>G02F 1/16755</u> is incomplete pending reclassification of documents from group <u>G02F 1/167</u> , <u>G02F 1/17</u> , and <u>G02F 1/19</u> . All groups listed above should be considered in order to perform a complete search.
Ν	G02F 1/16756	• • • Insulating layers
		<u>WARNING</u> Group <u>G02F 1/16756</u> is incomplete pending reclassification of documents from group <u>G02F 1/167</u> , <u>G02F 1/17</u> , and <u>G02F 1/19</u> . All groups listed above should be considered in order to perform a complete search.
Ν	G02F 1/16757	• • • • Microcapsules
		<u>WARNING</u> Group <u>G02F 1/16757</u> is incomplete pending reclassification of documents from group <u>G02F 1/167</u> , <u>G02F 1/17</u> , and <u>G02F 1/19</u> . All groups listed above should be considered in order to perform a complete search.
D	G02F 2001/1676	<ul> <li>+ {having a particular electrode}</li> <li><administratively 1="" 1676="" g02f="" to="" transferred=""></administratively></li> </ul>
Q	G02F 1/1676	• • • • Electrodes
		<u>WARNING</u> Group <u>G02F 1/1676</u> is impacted by reclassification into groups <u>G02F 1/16761</u> , <u>G02F 1/16762</u> , and <u>G02F 1/16766</u> . All groups listed in this Warning should be considered in order to perform a complete search.
Ν	G02F 1/16761	••••• Side-by-side arrangement of working electrodes and counter-electrodes
		WARNING
		Group <u>G02F 1/16761</u> is incomplete pending reclassification of documents from group <u>G02F 1/1676</u> . All groups listed above should be considered in order to perform a complete search.
Ν	G02F 1/16762	•••• having three or more electrodes per pixel
		WARNING
		Group <u>G02F 1/16762</u> is incomplete pending reclassification of documents from group <u>G02F 1/1676</u> . All groups listed above should be considered in order to perform a complete search.
Ν	G02F 1/16766	• • • • for active matrices
		WARNING
		Group <u>G02F 1/16766</u> is incomplete pending reclassification of documents from group <u>G02F 1/1676</u> . All groups listed above should be considered in order to perform a complete search.

Ν	G02F 1/1677	<ul> <li>Structural association of cells with optical devices, e.g. reflectors or illuminating devices</li> </ul>
		<u>WARNING</u> Group <u>G02F 1/1677</u> is incomplete pending reclassification of documents from group <u>G02F 1/167</u> , <u>G02F 1/17</u> , and <u>G02F 1/19</u> . All groups listed above should be considered in order to perform a complete search.
М	G02F 2001/1678	• • • • • {having a particular characterised by the composition or particle type}
Ν	G02F 1/1679	• • • • Gaskets; Spacers; Sealing of cells; Filling or closing of cells
		<u>WARNING</u> Group <u>G02F 1/1679</u> is incomplete pending reclassification of documents from group <u>G02F 1/167</u> , <u>G02F 1/17</u> , and <u>G02F 1/19</u> . All groups listed above should be considered in order to perform a complete search.
Ν	G02F 1/1681	•••• having two or more microcells partitioned by walls, e.g. of microcup type
Ν	G02F 1/1685	• • • Operation of cells; Circuit arrangements affecting the entire cell
		WARNING
		Group <u>G02F 1/1685</u> is incomplete pending reclassification of documents from group <u>G02F 1/167</u> , <u>G02F 1/17</u> , and <u>G02F 1/19</u> . All groups listed above should be considered in order to perform a complete search.
Ν	G02F 1/169	<ul> <li>based on orientable non-spherical particles having a common optical characteristic, e.g. suspended particles of reflective metal flakes</li> </ul>
		<u>WARNING</u> Group <u>G02F 1/169</u> is incomplete pending reclassification of documents from groups <u>G02F 1/17</u> and <u>G02F 1/19</u> . All groups listed above should be considered in order to perform a complete search.
С	G02F 1/17	<ul> <li>based on variable absorption elements not provided for in groups</li> <li><u>G02F 1/015</u> - <u>G02F 1/169</u>(G02F 1/015 - G02F 1/167 take precedence; {tenebrescent compositions C09K 9/00})     </li> </ul>
		WARNING
		Group <u>G02F 1/17</u> is impacted by reclassification into group <u>G02F 1/165</u> , <u>G02F 1/166</u> , <u>G02F 1/1673</u> , <u>G02F 1/1675</u> , <u>G02F 1/16753</u> , <u>G02F 1/16755</u> , <u>G02F 1/16756</u> , <u>G02F 1/16757</u> , <u>G02F 1/1677</u> , <u>G02F 1/1679</u> , <u>G02F 1/1685</u> , <u>G02F 1/169</u> . All groups listed above should be considered in order to perform a complete search.
С	G02F 1/19	<ul> <li>based on variable-reflection or variable-refraction elements not provided</li> </ul>
C	GOZE 1/19	for in groups <u>G02F 1/015</u> - <u>G02F 1/169</u> (G02F 1/015 - G02F 1/167 take precedence)
		WARNING
		Group <u>G02F 1/19</u> is impacted by reclassification into group <u>G02F 1/165</u> , G02F 1/166, <u>G02F 1/1673</u> , <u>G02F 1/1675</u> , <u>G02F 1/16753</u> , <u>G02F 1/16755</u> , <u>G02F 1/16756</u> , <u>G02F 1/16757</u> , <u>G02F 1/1677</u> , <u>G02F 1/1679</u> , <u>G02F 1/1685</u> , <u>G02F 1/169</u> .
		All groups listed above should be considered in order to perform a complete search.

# Project: RP0558 (G10C)

Μ	G10C	PIANOS, HARPSICHORDS, SPINETS OR SIMILAR STRINGED MUSICAL INSTRUMENTS WITH ONE OR MORE <u>KEYBOARD KEYBOARDS</u> (non- musical aspects of toy pianos A63H 5/00; aspects of automatic actuation G10F; combinations of microphones, pick-ups or amplifiers with musical instruments G10Hautomatic musical instruments G10F)
		NOTES
		1. In groups <u>G10C 1/00, G10C 3/00</u> and <u>G10C 9/00</u> , multi-aspect classification is applied, so that subject matter characterised by aspects covered by more than one of their subgroups should be classified in each of those subgroups.
		2. In this subclass, the specific types of musical instruments are covered by group <u>G10C 1/00</u> , while aspects relevant to the details thereof or the accessories therefor are covered by groups <u>G10C 3/00</u> -G10C 9/00.
Μ	G10C 1/00	General design <mark>of pianos, harpsichords, spinets or similar stringed musical</mark> instruments with one or more keyboards
М	G10C 1/02	<ul> <li>of upright pianofortespianos</li> </ul>
М	G10C 1/04	<ul> <li>of grand pianofortespianos</li> </ul>
Μ	G10C 1/06	<ul> <li>of cembaloes, harpsichords spinets, or similar stringed instruments {musical instruments (keyboard-operated zithers G10D 3/085)}</li> </ul>
С	G10C 3/00	Details or accessories
		<u>WARNING</u> Group <u>G10C 3/00</u> is impacted by reclassification into group <u>G10C 3/07</u> . Groups <u>G10C 3/00</u> and <u>G10C 3/07</u> should be considered in order to perform a complete search.
Μ	G10C 3/06	<ul> <li>Resonating means, e.g. soundboards or resonant strings, soundboards;</li> <li>Fastenings of the resonating meansthereof</li> </ul>
Ν	G10C 3/07	<ul> <li>Strings (resonant strings <u>G10C 3/06</u>)</li> </ul>
		WARNING
		Group <u>G10C 3/07</u> is incomplete pending reclassification of documents from group <u>G10C 3/00</u> . Groups <u>G10C 3/00</u> and <u>G10C 3/07</u> should be considered in order to perform a complete search.
М	G10C 3/08	<ul> <li>Arrangements of strings thereof</li> </ul>
M	G10C 3/10	<ul> <li>Tuning pins or straining devices; Tensioning devices</li> </ul>
M	G10C 3/103	<ul> <li>• {the axis of the pins being parallel to the string} strings</li> </ul>
M	G10C 3/106	<ul> <li>• {the axis of the pins being perpendicular to the string}strings</li> </ul>
U	G10C 3/12	Keyboards; Keys
E	G10C 3/14	<ul> <li>for actuation playing by the feet</li> </ul>
L	6106 3/14	<ul> <li>WARNING</li> <li>Group <u>G10C 3/14</u> is incomplete pending reclassification of documents from group <u>G10C 3/26</u>.</li> <li>Groups <u>G10C 3/26</u> and <u>G10C 3/14</u> should be considered in order to perform a complete search.</li> </ul>
U	G10C 3/16	Actions

С	G10C 3/161	<ul> <li>- {specially adapted for upright pianos}</li> </ul>
		<u>WARNING</u> Group <u>G10C 3/161</u> is impacted by reclassification into groups <u>G10C 3/166</u> and <u>G10C 3/24</u> . Groups <u>G10C 3/161, G10C 3/166</u> , and <u>G10C 3/24</u> should be considered in order to perform a complete search.
Μ	G10C 3/163	<ul> <li>•               {the actions action             being mounted in a plane below the keyboard             }      </li> </ul>
Μ	G10C 3/165	<ul> <li>{for plucking the strings, i.e. for instruments covered by group G10C 1/06 (plucking mechanisms for keyboard-operated zithers G10D 3/085)}</li> </ul>
Е	G10C 3/166	<ul> <li>- {for damping a string the strings (G10C 3/161, G10C 3/168, G10C 3/20, G10C 3/22, G10C 3/26 take takes precedence)}</li> </ul>
		<u>WARNING</u> Group <u>G10C 3/166</u> is incomplete pending reclassification of documents from groups <u>G10C 3/161, G10C 3/168, G10C 3/20</u> , and <u>G10C 3/22</u> . All groups listed in this Warning should be considered in order to perform a complete search.
С	G10C 3/168	<ul> <li>{with a hanging jackjacks, i.e. jackjacks connected to hammer-buttbutts or hammer-shanks</li> </ul>
		WARNING
		Group <u>G10C 3/168</u> is impacted by reclassification into groups <u>G10C 3/166</u> and <u>G10C 3/24</u> . Groups <u>G10C 3/168, G10C 3/166</u> , and <u>G10C 3/24</u> should be considered in order to perform a complete search.
U	G10C 3/18	· · Hammers
С	G10C 3/20	<ul> <li>involving the use of hydraulic, pneumatic, or electromagnetic means</li> </ul>
		<u>WARNING</u> Group <u>G10C 3/20</u> is impacted by reclassification into groups <u>G10C 3/166</u> and <u>G10C 3/24</u> . Groups <u>G10C 3/20, G10C 3/166</u> , and <u>G10C 3/24</u> should be considered in order to perform a complete search.
С	G10C 3/22	<ul> <li>- {specially adapted} for grand pianofortespianos</li> </ul>
		<u>WARNING</u> Group <u>G10C 3/22</u> is impacted by reclassification into groups <u>G10C 3/166</u> and <u>G10C 3/24</u> . Groups <u>G10C 3/22, G10C 3/166</u> , and <u>G10C 3/24</u> should be considered in order to perform a complete search.
D	G10C 3/225	<ul> <li>• {the actions, in particular the hammers, being mounted above the strings, i.e. hammers hitting downwards}</li> <li><administratively 23<="" 3="" g10c="" li="" to="" transferred=""> </administratively></li></ul>
Ν	G10C 3/23	<ul> <li>with hammers mounted above the strings, striking downwards</li> </ul>
Е	G10C 3/24	<ul> <li>for reciprocating of Repetition [tremolo {] mechanisms(G10C 3/161, G10C 3/168, G10C 3/20, G10C 3/22 take precedence)}</li> </ul>
		<u>WARNING</u> Group <u>G10C 3/24</u> is incomplete pending reclassification of documents from groups <u>G10C 3/161, G10C 3/168, G10C 3/20</u> , and <u>G10C 3/22</u> . All groups listed in this Warning should be considered in order to perform a complete search.

С	G10C 3/26	<ul> <li>Pedals or pedal mechanisms for half-blow or similar means for modifying the sound(G10C 3/14 takes precedence); Manually operated sound modification means</li> </ul>	
		<u>WARNING</u> Group <u>G10C 3/26</u> is impacted by reclassification into group <u>G10C 3/14</u> . Groups <u>G10C 3/26</u> and <u>G10C 3/14</u> should be considered in order to perform a complete search.	
U	G10C 5/00	Combinations with other musical instruments, e.g. with bells or xylophones	
D	G10C 5/005	<ul> <li>{Switching the keyboard from piano playing to playing another instrument}</li> <li><administratively <u="" to="" transferred="">G10C 5/10&gt;</administratively></li> </ul>	
Ν	G10C 5/10	<ul> <li>Switching musical instruments to a keyboard, e.g. switching a piano mechanism or an electrophonic instrument to a keyboard; Switching musical instruments to a silent mode</li> </ul>	
М	G10C 9/00	Methods- <i>, tools</i> or toolsmaterials specially adapted for the manufacture or maintenance of musical instruments covered by this subclass	
Pro	Project: RP0559 (B65H)		
	B65H 3/00	Separating articles from piles (associating, collating, or gathering articles <u>B65H 39/00</u> ; machines for separating superposed webs <u>B65H 41/00</u> ; unpiling thin material combined with folding <u>B65H 45/26</u> ; combinations of piling and depiling operations, of interest apart from the single operation of piling or depiling <u>B65H 83/00</u> {, <u>B07C 1/02</u> , <u>G07D 11/0084G07D 11/50</u> })	
Pro	ject: RP0559 (G07B	)	

M G07B 15/00 Arrangements or apparatus for collecting fares, tolls or entrance fees at one or more control points (handling coins or paper currency valuable papers, e.g. banknotes, G07D; apparatus for vending or hiring articles or services activated by coins, credit cards, paper currency or the like G07F 7/00, G07F 17/00)

#### <u>NOTES</u>

1. Data processing aspects of payment systems or protocols relating to toll, entrance fee or fare collection, e.g. in road pricing or congestion charging, are also classified in <u>G06Q 20/00</u>.

- 2. { This group covers also:
  - car rental systems;
  - systems for reserving and using access tickets, e.g. check-in systems

}

### Project: RP0559 (G07D)

M G07D

#### HANDLING OF COINS OR OF PAPER CURRENCY OR SIMILAR VALUABLE PAPERS, e.g. TESTING, SORTING BY DENOMINATIONS, COUNTING, DISPENSING, CHANGING OR DEPOSITING

#### NOTE

1. In this subclass, the following terms or expressions are used with the meaning indicated:

- "coins" also covers tokens of similar nature;
- "paper currency or similar valuable papers" covers paper currency, banknotes, bills, cheques, vouchers, securities, bonds or similar valuable

		papers, irrespective of the <del>like</del> material used for these, which represent monetary value that can be measured or verified.
		<ul> <li>2. This suclass covers handling of "coins" or "paper currency" insofar as they carry distinctive value features representative of money or the like.</li> <li>Informative references: <ul> <li>sorting in general B07C</li> <li>handling paper sheets in general B65H</li> <li>counting by weighing G01G</li> <li>counting of objects in general, i.e. without discriminating of denominations, G06M</li> </ul> </li> </ul>
		WARNINGThe following IPC groups are not in the CPC scheme. The subject matter forthese IPC groups is classified in the following CPC groups:G07D 13/00covered byG07D 11/00 and subgroup.
М	G07D 3/00	Sorting a mixed bulk of coins into denominations <del>{(sorting paper currency</del> G07D 11/0084; sorting by coin weight G01G)}
М	G07D 7/00	Testing specially adapted to determine the identity or genuineness of paper currency or similar valuable papers or for segregating those which are unacceptable, e.g. banknotes that are alien to a currency or otherwise unacceptable
		<u>NOTE</u> In this group, groups <u>G07D 7/16</u> - <u>G07D 7/20</u> take precedence over groups <u>G07D 7/02</u> - <u>G07D 7/14</u> .
		$\frac{\text{WARNING}}{\text{Group } \underline{\text{G07D } 7/00}}$ is impacted by reclassification into group <u>G07D 7/15</u> . Groups <u>G07D 7/00</u> and <u>G07D 7/15</u> should be considered in order to perform a complete search.
М	G07D 9/00	Counting coins (in combination with coin-sorting <u>G07D 3/16</u> ); Handling of coins not provided for in the other groups of this subclass
		NOTE Informative references • handling of paper currency G07D 11/0021 • counting paper currency G07D 11/0084
С	G07D 11/00	Devices accepting coins; Devices accepting coins or {accepting or , dispensing} paper currency, e.g. depositing machines sorting or counting valuable papers(apparatus freed or actuated by coins or the like G07F; apparatus freed or actuated by paper currency G07F 7/04; complete banking systems G07F 19/00 {; arrangements actuated by a coded-card for receiving or dispensing monies or the like and posting such transactions to existing accounts, e.g. automatic teller machines [ATMs] G07F 19/20})
		NOTES 1. This group <u>covers</u> constructional or functioning aspects of devices handling paper currency, including of so-called Automatic Teller Machines [ATMs]; other aspects of ATMs, e.g. posting transactions to existing accounts or aspects related to the interaction with users, are covered by group G07F 19/20
		2. Informative reference:
		3 devices dispensing coins G07D 1/00 WARNING
		Group <u>G07D 11/00</u> is impacted by reclassification into group <u>G07D 11/60</u> .

		Groups <u>G07D 11/00</u> and <u>G07D 11/60</u> should be considered in order to perform a complete search.
D	G07D 11/0003	<ul> <li>{Mechanical details} <administratively 10="" 11="" g07d="" to="" transferred=""></administratively></li> </ul>
D	G07D 11/0006	<ul> <li>{Note containers} <administratively 11="" 12="" g07d="" to="" transferred=""></administratively></li> </ul>
D	G07D 11/0009	<ul> <li>• {Secure note containers, e.g. for transport (coin boxes G07F 9/06; locking means E05B; safes E05G; currency invalidating means E05G 1/14)}</li> <li><administratively 11="" 125="" g07d="" to="" transferred=""></administratively></li> </ul>
D	G07D 11/0012	<ul> <li> <ul> <li></li></ul></li></ul>
D	G07D 11/0015	<ul> <li> <ul> <li></li></ul></li></ul>
D	G07D 11/0018	<ul> <li>{Inlet or outlet ports}</li> <li><administratively 11="" 14="" g07d="" to="" transferred=""></administratively></li> </ul>
D	G07D 11/0021	<ul> <li>+ {Handling paper currency, e.g. banknotes (handling paper sheets in general B65H)}</li> </ul>
		NOTE
		Informative reference- handling paper sheets in general B65H
		<administratively 11="" 16="" g07d="" to="" transferred=""></administratively>
D	G07D 11/0024	<ul> <li>• • {Note picking} <administratively 11="" 165="" g07d="" to="" transferred=""></administratively></li> </ul>
D	G07D 11/0027	<ul> <li>• • {Aligning (apparatus characterised by positioning means or by means responsive to positioning G07D 7/17)}</li> <li><administratively 11="" 17="" g07d="" to="" transferred=""></administratively></li> </ul>
D	G07D 11/003	<ul> <li>+ {Flattening, e.g. straightening out folds} <administratively <u="" to="" transferred="">G07D 11/175&gt;</administratively></li> </ul>
D	G07D 11/0033	<ul> <li> <ul> <li></li></ul></li></ul>
D	G07D 11/0036	<ul> <li>{Electronic and sensing details} <administratively 11="" 22="" g07d="" to="" transferred=""></administratively></li> </ul>
D	G07D 11/0039	<ul> <li>{for detection of transport malfunction, e.g. jams, misfeeds} <administratively 11="" 237="" g07d="" to="" transferred=""></administratively></li> </ul>
D	G07D 11/0042	<ul> <li>- {for tamper detection and indication} <administratively 11="" 225<="" g07d="" li="" to="" transferred=""> </administratively></li></ul>
D	G07D 11/0045	<ul> <li>- {for cassette fill-level sensing} <administratively 11="" 23<="" g07d="" li="" to="" transferred=""> </administratively></li></ul>
D	G07D 11/0048	<ul> <li>{for checking and indicating machine condition, fault detection (registering or indicating the working of machines in general G07C 3/00)}</li> <li><administratively 11="" 235="" g07d="" to="" transferred=""></administratively></li> </ul>
D	G07D 11/0051	<ul> <li>{Means for managing operation, e.g. data handling with apparatus}</li> <li><administratively 11="" 20="" g07d="" to="" transferred=""></administratively></li> </ul>
D	G07D 11/0054	<ul> <li>- {for managing stock of banknotes} <administratively 11="" 24="" g07d="" to="" transferred=""></administratively></li> </ul>
D	G07D 11/0057	<ul> <li> <ul> <li>{Replenishment}</li> <li>administratively transferred to G07D 11/245&gt;</li> </ul> </li> </ul>
D	G07D 11/006	<ul> <li> <del>Relocation of banknotes within apparatus}</del> </li> <li>             cadministratively transferred to <u>G07D 11/25</u>&gt;     </li> </ul>

D	G07D 11/0063	<ul> <li>{for servicing, repairing or coping with irregularities, e.g. power failure, vandalism}</li> <li><administratively 11="" 26="" g07d="" to="" transferred=""></administratively></li> </ul>
D	G07D 11/0066	<ul> <li>         • {for tracking or tracing banknotes or cassettes} <administratively 11="" 30="" g07d="" to="" transferred=""> </administratively></li> </ul>
D	G07D 11/0069	<ul> <li>{for record keeping (indicating machine condition G07D 11/0048; transaction aspects G07F 19/00)}</li> <li><administratively 11="" 32="" g07d="" to="" transferred=""></administratively></li> </ul>
D	G07D 11/0072	<ul> <li>+ {Contents of apparatus, e.g. number of stored banknotes} <administratively 11="" 34="" g07d="" to="" transferred=""></administratively></li> </ul>
D	G07D 11/0075	<ul> <li>• • {Audit trail of performed activities} <administratively <u="" to="" transferred="">G07D 11/36&gt;</administratively></li> </ul>
D	G07D 11/0078	<ul> <li>{for transmitting data, e.g. software updates, parameter settings}</li> <li><administratively 11="" 28="" g07d="" to="" transferred=""></administratively></li> </ul>
D	G07D 11/0081	<ul> <li>{Device architecture, e.g. modular construction} <administratively 11="" 40="" g07d="" to="" transferred=""></administratively></li> </ul>
D	G07D 11/0084	<ul> <li>{Sorting or counting paper currency (sorting coins G07D 3/00 - counting coins G07D 9/00)}</li> <li><administratively 11="" 50<="" g07d="" li="" to="" transferred=""> </administratively></li></ul>
U	G07D 11/0087	<ul> <li>{Banknote changing devices}</li> </ul>
М	G07D 11/009	<ul> <li>{Depositing devices (safes E05G)}</li> </ul>
U	G07D 11/0093	<ul> <li>• {Drop boxes}</li> </ul>
U	G07D 11/0096	<ul> <li>{Accepting paper currency or other valuables in containers, e.g. in code- marked envelopes}</li> </ul>
Ν	G07D 11/10	Mechanical details
Ν	G07D 11/12	Containers for valuable papers
Ν	G07D 11/125	Secure containers
Ν	G07D 11/13	••• with internal means for handling valuable papers
Ν	G07D 11/135	· · · {Remote note containers}
Ν	G07D 11/14	Inlet or outlet ports
Ν	G07D 11/16	<ul> <li>Handling of valuable papers (within containers <u>G07D 11/13</u>)</li> </ul>
Ν	G07D 11/165	• • • Picking
Ν	G07D 11/17	• • • Aligning
Ν	G07D 11/175	• • Flattening, e.g. straightening out folds
Ν	G07D 11/18	• • Diverting into different paths or containers
Ν	G07D 11/20	<ul> <li>Controlling or monitoring the operation of devices; Data handling</li> </ul>
Ν	G07D 11/22	Means for sensing or detection
Ν	G07D 11/225	• • for detecting or indicating tampering
Ν	G07D 11/23	<ul> <li>for sensing the quantity of valuable papers in containers</li> </ul>
Ν	G07D 11/235	• • • for monitoring or indicating operating conditions; for detecting malfunctions
Ν	G07D 11/237	•••• for detecting transport malfunctions, e.g. jams or misfeeds
Ν	G07D 11/24	<ul> <li>Managing the stock of valuable papers</li> </ul>
Ν	G07D 11/245	• • • Replenishment
Ν	G07D 11/25	
Ν	G07D 11/26	<ul> <li>Servicing, repairing or coping with irregularities, e.g. power failure or vandalism</li> </ul>
Ν	G07D 11/28	Setting of parameters; Software updates

Ν	G07D 11/30	Tracking or tracing valuable papers or cassettes
Ν	G07D 11/32	<ul> <li>Record keeping (transaction aspects <u>G07F 19/00</u>)</li> </ul>
Ν	G07D 11/34	<ul> <li>Monitoring the contents of devices, e.g. the number of stored valuable papers</li> </ul>
Ν	G07D 11/36	Auditing of activities
Ν	G07D 11/40	Device architecture, e.g. modular construction
Ν	G07D 11/50	Sorting or counting valuable papers
Ν	G07D 11/60	User-interface arrangements
		<u>WARNING</u> Group <u>G07D 11/60</u> is incomplete pending reclassification of documents from group <u>G07D 11/00</u> . Groups <u>G07D 11/00</u> and <u>G07D 11/60</u> should be considered in order to perform a complete search.
Μ	G07D 13/00	Handling of coins or of paper currency or similar valuable papers, characterised by a combination of mechanisms not covered by a single one of groups G07D 1/00 - G07D 11/00
Pro	ject: RP0560 (G01N	1)
Μ	G01M	TESTING STATIC OR DYNAMIC BALANCE OF MACHINES OR STRUCTURES; TESTING OF STRUCTURES OR APPARATUS, NOT OTHERWISE PROVIDED FOR <del>{(devices for testing the performance of</del> portable percussive tools with fluid-pressure drive B25D 9/005)}
		NOTE Attention is drawn to the Note following the title of Class <u>G01</u> .
		-
		WARNINGS1. The following IPC groups are not in the CPC scheme. The subject matter for these IPC groups is classified in the following CPC groups:G01M 1/38covered byG01M 1/14 and G01M 1/30
		and subgroups
		<ol><li>In this subclass non-limiting references (in the sense of paragraph 39 of the Guide to the IPC) may still be displayed in the scheme.</li></ol>
М	G01M 1/00	Testing static or dynamic balance of machines or structures (balancing rotary bowls of centrifuges B04B 9/14; apparatus characterised by the means for holding wheels or parts thereof B60B 30/00; determining the stability factors of ships B63B; stabilising of aircraft B64C 17/00; control systems for balancing automatically in operation G05; balancing rotors of dynamo-electric machines H02K 15/16)
U	G01M 1/02	<ul> <li>Details of balancing machines or devices</li> </ul>
М	G01M 1/04	<ul> <li>Adaptation of bearing support assemblies for receiving the body to be tested {(tyre chucks in general G01M 17/021)}</li> </ul>
М	G01M 1/08	<ul> <li>Instruments for indicating directly the magnitude and phase of the unbalance (measuring electrical variables in general G01R)</li> </ul>
U	G01M 1/14	Determining unbalance (G01M 1/30 takes precedence)
U	G01M 1/16	<ul> <li>by oscillating or rotating the body to be tested</li> </ul>
Μ	G01M 1/22	<ul> <li>and converting vibrations due to unbalance into electric variables (measuring vibrations in general G01H; microphones or like acoustic electromechanical transducers H04R)</li> </ul>
М	G01M 1/30	<ul> <li>Compensating unbalance (G01M1/38 takes precedence; counterweights F16F 15/28)</li> </ul>

Μ	G01M 1/32	<ul> <li>by adding material to the body to be tested, e.g. by correcting-weights (correcting-weights per se F16F 15/32)</li> </ul>
М	G01M 3/00	Investigating fluid-tightness of structures <del>(investigating permeability of porous material, investigating the presence of flaws in general G01N {membrane leak detection in blood dialysis A61M 1/1692; detecting infusion flow leakage A61M 5/16831})</del>
U	G01M 3/02	<ul> <li>by using fluid or vacuum</li> </ul>
Μ	G01M 3/022	<ul> <li>{Test plugs for closing off the end of a pipe (means for stopping flow from pipes F16L 55/10)}</li> </ul>
U	G01M 3/04	<ul> <li>by detecting the presence of fluid at the leakage point</li> </ul>
М	G01M 3/16	<ul> <li>using electric detection means (<u>{G01M 3/045,} G01M 3/06, G01M 3/12, G01M 3/20, G01M 3/24, G01M 3/26</u> take precedence <u>{G01M 3/045 takes</u> precedence})</li> </ul>
Μ	G01M 3/165	<ul> <li>• • • {by means of cables or similar elongated devices, e.g. tapes (construction of cables in general H01B)}</li> </ul>
U	G01M 3/20	<ul> <li>• using special tracer materials, e.g. dye, fluorescent material, radioactive material</li> </ul>
Μ	G01M 3/202	<ul> <li>• • • {using mass spectrometer detection systems (mass spectrometers H01J 49/26)}</li> </ul>
Μ	G01M 3/205	<ul> <li>         • • • {             <del>accessories and Accessories or</del> associated equipment, pump             <del>constructions (pumps F04)}; Pump constructions</del>         }         </li> </ul>
U	G01M 3/22	<ul> <li>for pipes, cables or tubes; for pipe joints or seals; for valves; {for welds; for containers, e.g. radiators}</li> </ul>
U	G01M 3/226	· · · · {for containers, e.g. radiators}
Μ	G01M 3/229	<ul> <li> {removably mounted in a test cell (test cells also in G01M 3/3281 and G01M 3/363)}</li> </ul>
U	G01M 3/26	<ul> <li>• by measuring rate of loss or gain of fluid, e.g. by pressure-responsive devices, by flow detectors</li> </ul>
Μ	G01M 3/28	<ul> <li>for pipes, cables or tubes; for pipe joints or seals; for valves {for welds (not used)}</li> </ul>
М	G01M 5/00	Investigating the elasticity of structures, e.g. deflection of bridges <del>, or</del> air- craft wings ( <u>G01M 9/00</u> takes precedence <del>; strain gauges G01B</del> )
М	G01M 7/00	Vibration-testing of structures; Shock-testing of structures ( <u>G01M 9/00</u> takes precedence <del>{; generating vibrations B06, G10, H04R; vibration</del> measurement G01H; material testing G01N 3/00 <del>}</del> )
М	G01M 9/00	Aerodynamic testing; Arrangements in or on wind tunnels (building aspects Section E; investigating properties of materials in general G01N)
U	G01M 9/06	<ul> <li>Measuring arrangements specially adapted for aerodynamic testing</li> </ul>
Μ	G01M 9/062	<ul> <li>• {Wind tunnel balances; Holding devices combined with measuring arrangements (measuring components of force in general G01L 5/16)}</li> </ul>
Μ	G01M 9/065	<ul> <li>{dealing with flow (measuring volume flow G01F; measuring speed of fluids G01P 5/00)}</li> </ul>
Μ	G01M 10/00	Hydrodynamic testing; Arrangements in or on ship-testing tanks or water tunnels (building aspects Section E; investigating properties of materials in general G01N; {methods for designing, building, maintaining, converting, refitting, repairing or determining properties of vessels, not otherwise provided for and using towing tanks or model basins for designing B63B 9/02; for determining vessel properties with respect to stability or balance B63B 9/08; apparatus for indicating vessel attitude, e.g. inclination or duration of roll B63B 39/00})

U	G01M 11/00	Testing of optical apparatus; Testing structures by optical methods not otherwise provided for
U	G01M 11/005	<ul> <li>{Testing of reflective surfaces, e.g. mirrors}</li> </ul>
М	G01M 11/02	<ul> <li>Testing of optical properties (of lenses)</li> </ul>
М	G01M 11/04	<ul> <li>Optical benches therefor</li> </ul>
М	G01M 11/06	<ul> <li>Testing of the alignment of vehicle head-light headlight devices</li> </ul>
М	G01M 11/08	<ul> <li>Testing of mechanical properties {(G01M 11/005 takes precedence)}</li> </ul>
М	G01M 11/088	<ul> <li>• {of optical fibres; Mechanical features associated with the optical testing of optical fibres (material testing in general G01N)}</li> </ul>
Μ	G01M 11/30	<ul> <li>{Testing of optical devices, constituted by fibre optics or optical waveguides (measuring a given physical parameter of optical fibres, see the relevant subclasses, e.g. G01B, G01N; equipment for monitoring, testing or fault measuring in optical transmission systems H04B 10/07)}</li> </ul>
С	G01M 13/00	Testing of machine parts <del>(investigating the cutting power of tools, G01N,</del> <del>e.g. G01N 3/58)</del>
		WARNING
		Group <u>G01M 13/00</u> is impacted by reclassification into group <u>G01M 13/003</u> . Groups <u>G01M 13/00</u> and <u>G01M 13/003</u> should be considered in order to perform a complete search.
Ν	G01M 13/003	Machine valves (testing valves for fluid tightness <u>G01M 3/00</u> )
		WARNING
		Group <u>G01M 13/003</u> is incomplete pending reclassification of documents from group <u>G01M 13/00</u> . Groups <u>G01M 13/00</u> and <u>G01M 13/003</u> should be considered in order to perform a complete search.
N 4	G01M 13/005	
M	G01M 13/005	<ul> <li><del>(Testing of sealing Sealing</del> rings<del>)</del></li> <li>Gearings; Testing of gearing or of transmission Transmission mechanisms</li> </ul>
M		(measuring efficiency G01L)
М	G01M 13/021	<del>{of gearings}Gearings</del>
М	G01M 13/022	<ul> <li>{of powerPower-transmitting couplings or clutches}</li> </ul>
М	G01M 13/023	<ul> <li>{of powerPower-transmitting endless elements, e.g. belts, or chains}</li> </ul>
Μ	G01M 13/025	<ul> <li>{Test-benches using a with rotational drive means and loading means; Load or drive simulation}</li> </ul>
Μ	G01M 13/026	<ul> <li>              {Test-benches of the mechanical closed-loop type}, i.e. having a gear             system constituting a closed-loop in combination with the object under test      </li> </ul>
Μ	G01M 13/027	<ul> <li>• {Test-benches using with force-applying means, e.g. loading of drive shafts along several directions}</li> </ul>
М	G01M 13/028	<ul> <li>- {Acoustic or vibration analysis}</li> </ul>
М	G01M 13/04	<ul> <li>Testing of bearings Bearings</li> </ul>
М	G01M 13/045	<ul> <li> <del>{by acoustic Acoustic</del> or vibration analysis}         </li> </ul>
М	G01M 15/00	Testing of engines
		NOTE
		Informative note References listed below indicate IPC places which could also be of interest when carrying out a search in respect of the subject matter covered by the preceding group:- Measurement of mechanical vibrations in general G01H
		Analysing gases in general G01N

		Arrangements for testing electrical properties; Arrangements for locating electric faults; Arrangements for electrical testing characterised by what is being tested not provided for elsewhere G01R 31/00.
Μ	G01M 15/04	<ul> <li>Testing of internal-combustion engines, e.g. diagnostic testing of piston engines</li> </ul>
		NOTE
		1. Informative note
		References listed below indicate IPC places which could also be of interest when carrying out a search in respect of the subject matter covered by the
		preceding group:
		Monitoring or diagnostic devices for exhaust-gas treatment apparatus F01N 11/00
		Indicating or supervising devices of internal-combustion engines F02B 77/08
		Running in of internal-combustion engines F02B 79/00 Controlling combustion engines F02D
		Apparatus for testing, tuning or synchronising carburettors, e.g. carburettor flow stands F02M 19/01
		Testing fuel-injection apparatus F02M 65/00
		Testing internal-combustion engine ignition, e.g. timing F02P 17/00
		Devices for determining the value of power, e.g. by measuring and
		simultaneously multiplying the values of torque and revolutions per unit of time,
		by multiplying the values of tractive or propulsive force and velocity G01L 3/24 Determining the characteristic of torque in relation to revolutions per unit of time G01L 5/26
		Devices for detecting or indicating knocks in internal-combustion engines G01L 23/22
		Devices for measuring pressure in inlet or exhaust ducts of internal combustion engines G01L 23/24
		Means for indicating positions of pistons or cranks of internal-combustion engines by measuring pressure G01L 23/30.
		2. 1. Group G01M 15/05 takes precedence over groups G01M 15/042 and G01M 15/06 - G01M 15/12.
М	G01M 15/10	<ul> <li>by monitoring exhaust gases {or combustion flame (analyses of gases per se G01N)}</li> </ul>
Μ	G01M 15/14	<ul> <li>Testing of gas-turbine plantsengines or jet-propulsion plantsengines</li> </ul>
		NOTE
		Informative note-
		References listed below indicate IPC places which could also be of interest when carrying out a search in respect of the subject matter covered by the
		preceding group:
		Rocket-engine plants characterised by specially adapted arrangements for testing or measuring F02K 9/96.
М	G01M 17/00	Testing of vehicles (G01M 15/00 takes precedence; testing fluid
		tightness <u>G01M 3/00</u> ; testing elastic properties of bodies or chassis, e.g. torsiontesting-, <u>G01M 5/00</u> ; testing alignment of vehicle head- lightingheadlight devices <u>G01M 11/06; {testing brakes G01L 5/28}; testing</u> of engines <u>G01M 15/00</u> )
М	G01M 17/007	<ul> <li>of wheeled Wheeled or endless-tracked vehicles (G01M 17/08 takes precedence)</li> </ul>
U	G01M 17/0072	<ul> <li>{the wheels of the vehicle co-operating with rotatable rolls (<u>G01M 17/022</u>, <u>G01M 17/045</u>, <u>G01M 17/065</u> take precedence)}</li> </ul>
М	G01M 17/0076	<ul> <li>• { for two Two-wheeled vehicles }</li> </ul>
М	G01M 17/0078	<ul> <li>{Shock-testing of vehicles (shock-testing of structures in general G01M 7/08, G01N 3/30)}</li> </ul>

М	G01M 17/013	<ul> <li>of wheels Wheels</li> </ul>
М	G01M 17/02	• of tyres Tyres
М	G01M 17/022	<ul> <li>• • {the tyre co-operates operating with rotatable rolls}</li> </ul>
Μ	G01M 17/024	<ul> <li>• • • {combined with tyre surface correcting or marking means (compensating unbalance G01M 1/30; marking location of unbalance G01M 1/26)}</li> </ul>
Μ	G01M 17/025	<ul> <li>• • {using infrasonic, sonic or ultrasonic vibrations (for material testing in general G01N 29/00)}</li> </ul>
Μ	G01M 17/027	<ul> <li>• • {using light, e.g. infra-red, ultra-violet, or holographic techniques (for material testing in general G01N 21/00)}</li> </ul>
М	G01M 17/028	• • {using X-rays (for material testing in general G01N 23/00)}
М	G01M 17/03	<ul> <li>of endless Endless - tracks</li> </ul>
М	G01M 17/04	<ul> <li>of suspension Suspension or of damping</li> </ul>
Μ	G01M 17/06	<ul> <li>of steering Steering behaviour; of rolling Rolling behaviour (measuring steering angles G01B; measuring steering forces G01L)</li> </ul>
М	G01M 17/08	<ul> <li>of railway Railway vehicles</li> </ul>
М	G01M 17/10	<ul> <li>of suspensions Suspensions, axles or wheels</li> </ul>
Pro	ject: RP0561 (G01N	)
М	G01N 33/00	Investigating or analysing materials by specific methods not covered by the preceding groups G01N 1/00 groups - G01N 31/00
Μ	G01N 33/15	<ul> <li>Medicinal preparations {; Physical properties thereof, e.g. dissolubility (drug screening with animal cells <u>G01N 33/5008</u>, <u>drug screening with microorganisms</u> <u>C12Q 1/025</u>)}</li> </ul>
М	G01N 33/18	<ul> <li>Water {(treatment of water C02F)}</li> </ul>
С	G01N 33/20	Metals
		WARNING
		Group <u>G01N 33/20</u> is impacted by reclassification into groups <u>G01N 33/202</u> , <u>G01N 33/2022</u> , <u>G01N 33/2028</u> , <u>G01N 33/204</u> , <u>G01N 33/2045</u> , <u>G01N 33/207</u> , and <u>G01N 33/208</u> . All groups listed in this Warning should be considered in order to perform a complete search.
N	G01N 33/202	Constituents thereof
/ 1	00111 33/202	WARNING
		Group <u>G01N 33/202</u> is incomplete pending reclassification of documents from group <u>G01N 33/20</u> .
		Groups <u>G01N 33/20</u> and <u>G01N 33/202</u> should be considered in order to perform a complete search.
Ν	G01N 33/2022	Non-metallic constituents
		WARNING
		Group <u>G01N 33/2022</u> is incomplete pending reclassification of documents from group <u>G01N 33/20</u> .
		Groups $GOIN 33/20$ and $GOIN 33/2022$ should be considered in order to perform a complete search.
N	G01N 33/2025	• • • • Gaseous constituents
Ν	G01N 33/2028	• • Metallic constituents
		WARNING
		Group <u>G01N 33/2028</u> is incomplete pending reclassification of documents from group <u>G01N 33/20</u> .

		Groups <u>G01N 33/20</u> and <u>G01N 33/2028</u> should be considered in order to perform a complete search.
D	G01N 33/203	<ul> <li>{for the presence of a volatilizable, e.g. gaseous component}</li> <li><administratively 2025="" 33="" g01n="" to="" transferred=""></administratively></li> </ul>
Ν	G01N 33/204	Structure thereof, e.g. crystal structure
		<u>WARNING</u> Group <u>G01N 33/204</u> is incomplete pending reclassification of documents from group <u>G01N 33/20</u> . Groups <u>G01N 33/20</u> and <u>G01N 33/204</u> should be considered in order to perform a complete search.
N	G01N 33/2045	<ul> <li>Defects         <u>WARNING</u>         Group <u>G01N 33/2045</u> is incomplete pending reclassification of documents         from group <u>G01N 33/20</u>.         Groups <u>G01N 33/20</u> and <u>G01N 33/2045</u> should be considered in order to         perform a complete search.</li> </ul>
Ν	G01N 33/205	<ul> <li>in liquid state, e.g. molten metals</li> </ul>
D	G01N 33/206	<ul> <li>- {in molten state, e.g. after local fusion} <administratively 205<="" 33="" g01n="" li="" to="" transferred=""> </administratively></li></ul>
Ν	G01N 33/207	<ul> <li>Welded or soldered joints; Solderability <u>WARNING</u> Group <u>G01N 33/207</u> is incomplete pending reclassification of documents from group <u>G01N 33/20</u>. Groups <u>G01N 33/20</u> and <u>G01N 33/207</u> should be considered in order to perform a complete search.</li> </ul>
Ν	G01N 33/208	<ul> <li>Coatings, e.g. platings <u>WARNING</u> Group <u>G01N 33/208</u> is incomplete pending reclassification of documents from group <u>G01N 33/20</u>. Groups <u>G01N 33/20</u> and <u>G01N 33/208</u> should be considered in order to perform a complete search.</li> </ul>
М	G01N 33/24	<ul> <li>Earth materials (<u>G01N 33/42</u> takes precedence {; testing the nature of borehole walls, formation testing E21B 49/00; investigation of foundation soil in situ E02D 1/00; geophysics, e.g. prospecting G01V})</li> </ul>
М	G01N 33/48	<ul> <li>Biological material, e.g. blood, urine (<u>G01N 33/02</u> - <u>G01N 33/14</u>, <u>G01N 33/26</u>, <u>G01N 33/44</u>, <u>G01N 33/46</u> take precedence; <u>determining the germinating</u> capacity of seeds A01C 1/02); Haemocytometers (counting blood corpuscules distributed over a surface by scanning the surface <u>G06M 11/02</u>)</li> </ul>
U	G01N 33/483	Physical analysis of biological material
U	G01N 33/487	• • • of liquid biological material
Μ	G01N 33/49	<ul> <li>Blood {(taking blood samples A61B 5/15; chemical methods for determining blood cell populations <u>G01N 33/5094</u>; chemical analysis of blood groups or blood types <u>G01N 33/80</u>)}</li> </ul>
Μ	G01N 33/497	<ul> <li>of gaseous biological material, e.g. breath {(for evaluating respiratory organs A61B 5/08)}</li> </ul>

U	G01N 33/50	<ul> <li>Chemical analysis of biological material, e.g. blood, urine; Testing involving biospecific ligand binding methods; Immunological testing (measuring or testing processes involving enzymes or microorganisms, compositions or test papers therefor; processes for forming such compositions, condition responsive control in microbiological or enzymological processes <u>C12Q</u>)</li> </ul>
		NOTES
		1. In this group, the following expression is used with the meaning indicated: "involving", when used in relation to a material, includes the testing for the material as well as employing the material as a determinant or reactant in a test for a different material.
		2. In groups <u>G01N 33/52</u> – <u>G01N 33/98</u> , the last place priority rule is applied, i.e. at each hierarchical level, in the absence of an indication to the contrary, classification is made in the last appropriate place.
		3. Documents relating to new peptides or new DNA or its corresponding mRNA, encoding for the peptides, and their use in measuring or testing processes are classified in subclass $C07K$ or in group $C12N 9/00$ according to the peptides, with the appropriate indexing codes relating to their use in diagnostics. However, if the investigating or analysing aspects are of interest, the documents are classified in this group.
U	G01N 33/53	<ul> <li>Immunoassay; Biospecific binding assay; Materials therefor</li> </ul>
U	G01N 33/543	•••• with an insoluble carrier for immobilising immunochemicals
U	G01N 33/544	•••• the carrier being organic
U	G01N 33/545	•••••Synthetic resin
Μ	G01N 33/546	<ul> <li> as water suspendable particles {(not used, see G01N 33/54313 insoluble carriers for immobilising immunochemicals G01N 33/54313)}</li> </ul>
Μ	G01N 33/547	<ul> <li> with antigen or antibody attached to the carrier via a bridging agent         {(not used, see G01N 33/54353/igands attached to the carrier via a             <u>chemical coupling agent G01N 33/54353</u>)}     </li> </ul>
Μ	G01N 33/549	<ul> <li>• • • • • with antigen or antibody entrapped within the carrier {(not used, see G01N 33/5436with ligand physically entrapped within the solid phase G01N 33/5436)}</li> </ul>
Μ	G01N 33/563	<ul> <li>involving antibody fragments {(not used, see G01N 33/6857 G01N 33/6857 takes precedence)}</li> </ul>

### Project: RP0564 (B32B)

Μ	B32B 7/00	Layered products characterised by the relation between layers; Layered products characterised by the relation relative orientation of features between layers, or by the relative values of a measurable parameter between layers, i.e. products comprising layers having different physical properties and products characterised by the interconnection of layers, chemical or physicochemical properties; Layered products characterised by the interconnection of layers
D	B32B 7/005	<ul> <li>{in respect of orientation of features (B32B 5/12 takes precedence)}</li> <li><administratively 03<="" 7="" b32b="" li="" to="" transferred=""> </administratively></li></ul>
С	B32B 7/02	<ul> <li>in respect of physical properties Physical, e.g. hardnesschemical or physicochemical properties</li> </ul>
		<u>WARNING</u> Group <u>B32B 7/02</u> is impacted by reclassification into groups <u>B32B 7/022</u> , <u>B32B 7/023</u> , <u>B32B 7/025</u> , <u>B32B 7/027</u> , and <u>B32B 7/028</u> . All groups listed in this Warning should be considered in order to perform a complete search.

Ν	B32B 7/022	Mechanical properties
		WARNING
		Groups <u>B32B 7/022</u> , <u>B32B 7/023</u> , <u>B32B 7/025</u> , <u>B32B 7/027</u> , and <u>B32B 7/028</u> are incomplete pending reclassification of documents from group <u>B32B 7/02</u> . All groups listed in this Warning should be considered in order to perform a complete search.
Ν	B32B 7/023	Optical properties
Ν	B32B 7/025	Electric or magnetic properties
Ν	B32B 7/027	Thermal properties
Ν	B32B 7/028	• • • Heat-shrinkability
Q	B32B 7/03	<ul> <li>with respect to the orientation of features (direction of fibres or filaments <u>B32B 5/12</u>)</li> </ul>
		WARNING
		Group <u>B32B 7/03</u> is impacted by reclassification into group <u>B32B 7/035</u> . Groups <u>B32B 7/03</u> and <u>B32B 7/035</u> should be considered in order to perform a complete search.
Ν	B32B 7/035	<ul> <li>using arrangements of stretched films, e.g. of mono-axially stretched films arranged alternately</li> </ul>
		WARNING
		Group <u>B32B 7/035</u> is incomplete pending reclassification of documents from group <u>B32B 7/03</u> . Groups <u>B32B 7/03</u> and <u>B32B 7/035</u> should be considered in order to perform
		a complete search.
М	B32B 7/04	<ul> <li>characterised by the connection Interconnection of layers</li> </ul>
D	B32B 7/045	<ul> <li>{the layers being not connected over the whole surface, e.g. discontinuous connection, patterned connection (B32B 7/14 takes precedence)}</li> <li><administratively 05="" 7="" b32b="" to="" transferred=""></administratively></li> </ul>
Ν	B32B 7/05	<ul> <li>the layers not being connected over the whole surface, e.g. discontinuous connection or patterned connection (using interposed adhesives or bonding materials applied in spaced arrangements <u>B32B 7/14</u>)</li> </ul>
М	B32B 7/06	<ul> <li>permitting easy separation {, e.g. releasable layer}</li> </ul>
С	B32B 7/08	<ul> <li>by mechanical connection, e.g. stitching {means (B32B 5/06 takes precedence)}</li> </ul>
		WARNING
		Group <u>B32B 7/08</u> is impacted by reclassification into group <u>B32B 7/09</u> . Groups <u>B32B 7/08</u> and <u>B32B 7/09</u> should be considered in order to perform a complete search.
Ν	B32B 7/09	••• by stitching, needling or sewing (by needling fibrous layers <u>B32B 5/06</u> )
		WARNING
		Group <u>B32B 7/09</u> is incomplete pending reclassification of documents from group <u>B32B 7/08</u> . Groups <u>B32B 7/08</u> and <u>B32B 7/09</u> should be considered in order to perform
		a complete search.
М	B32B 7/10	<ul> <li>at least one or both of the layers layer having inter-reactive properties</li> </ul>
Μ	B32B 7/12	<ul> <li>using an adhesive {, i.e. any interposed material having adhesive or adhesives or interposed materials with bonding properties}</li> </ul>
Μ	B32B 7/14	<ul> <li>• applied in strips or other spaced arrangementspaced arrangements, e.g. in stripes</li> </ul>

# Project: RP0570 (C02F)

U	C02F 11/00	Treatment of sludge; Devices therefor
U	C02F 11/10	• by pyrolysis
С	C02F 11/12	<ul> <li>by de-watering, drying, or thickening</li> </ul>
		<u>WARNING</u> Group <u>C02F 11/12</u> is impacted by reclassification into groups <u>C02F 11/13,</u> <u>C02F 11/131</u> , and <u>C02F 11/15</u> . All groups listed in this Warning should be considered in order to perform a complete search.
Μ	C02F 11/121	<ul> <li> <del>{Processes for by</del> mechanical dehydration of sludge, e.g. by filters}de- <u>watering</u> </li> </ul>
М	C02F 11/122	• • {using press filters filter presses (C02F 11/123 takes precedence)}
М	C02F 11/123	<ul> <li>• {using belt or band filters}</li> </ul>
М	C02F 11/125	• • • {using screw filters}
М	C02F 11/126	• • • <del>{</del> using drum filters <del>}</del>
М	C02F 11/127	• • {by centrifugation}
М	C02F 11/128	<ul> <li>         •          •          <del>{Batch using batch</del> processes}         </li> </ul>
Ν	C02F 11/13	• by heating
		<u>WARNING</u> Group <u>C02F 11/13</u> is incomplete pending reclassification of documents from group <u>C02F 11/12</u> . Groups <u>C02F 11/12</u> and <u>C02F 11/13</u> should be considered in order to perform a complete search.
Ν	C02F 11/131	• • • using electromagnetic or ultrasonic waves
		<u>WARNING</u> Group <u>C02F 11/131</u> is incomplete pending reclassification of documents from group <u>C02F 11/12</u> . Groups <u>C02F 11/12</u> and <u>C02F 11/131</u> should be considered in order to perform a complete search.
С	C02F 11/14	with addition of chemical agents
		<u>WARNING</u> Group <u>C02F 11/14</u> is impacted by reclassification into groups <u>C02F 11/143</u> , <u>C02F 11/145</u> , <u>C02F 11/147</u> , and <u>C02F 11/148</u> . All groups listed in this Warning should be considered in order to perform a complete search.
Ν	C02F 11/143	• • • using inorganic substances ( <u>C02F 11/148</u> takes precedence)
		<u>WARNING</u> Group <u>C02F 11/143</u> is incomplete pending reclassification of documents from group <u>C02F 11/14</u> . Groups <u>C02F 11/14</u> and <u>C02F 11/143</u> should be considered in order to perform a complete search.
Ν	C02F 11/145	•••• using calcium compounds
		WARNING Group <u>C02F 11/145</u> is incomplete pending reclassification of documents from group <u>C02F 11/14</u> . Groups <u>C02F 11/14</u> and <u>C02F 11/145</u> should be considered in order to perform a complete search.

Ν	C02F 11/147	<ul> <li>using organic substances (<u>C02F 11/148</u> takes precedence) <u>WARNING</u> Group <u>C02F 11/147</u> is incomplete pending reclassification of documents from group <u>C02F 11/14</u>. Groups <u>C02F 11/14</u> and <u>C02F 11/147</u> should be considered in order to perform a complete search.</li> </ul>
N	C02F 11/148	<ul> <li>Combined use of inorganic and organic substances, being added in the same treatment step <u>WARNING</u></li> </ul>
		Group <u>C02F 11/148</u> is incomplete pending reclassification of documents from group <u>C02F 11/14</u> . Groups <u>C02F 11/14</u> and <u>C02F 11/148</u> should be considered in order to perform a complete search.
Ν	C02F 11/15	By treatment with electric, magnetic or electromagnetic fields; by treatment with ultrasonic waves (for the purpose of heating <u>C02F 11/131</u> )
		<u>WARNING</u> Group <u>C02F 11/15</u> is incomplete pending reclassification of documents from group <u>C02F 11/12</u> .
		Groups $\underline{C02F 11/12}$ and $\underline{C02F 11/15}$ should be considered in order to perform a complete search.
Pro	oject: RP0575 (G05B	3)
М	G05B 13/00	Adaptive control systems, i.e. systems automatically adjusting themselves to have a performance which is optimum according to some preassigned criterion (G05B 19/00 takes precedence; details of the computer G06F 15/18; machine learning G06N 20/00)
Pro	ject: RP0575 (G06F	
U	G06F 15/00	Digital computers in general (details <u>G06F 1/00</u> – <u>G06F 13/00</u> ); Data processing equipment in general
D	G06F 15/18	<ul> <li>in which a program is changed according to experience gained by the computer itself during a complete run; Learning machines (adaptive control systems G05B 13/00; artificial intelligence G06N)</li> <li><administratively 00="" 20="" g06n="" to="" transferred=""></administratively></li> </ul>
Pro	oject: RP0575 (G06K	()
	G06K 9/62	<ul> <li>Methods or arrangements for recognition using electronic means (learning machines G06F 15/18; machine learning G06N 20/00; digital correlation G06F 17/15; analogue correlation G06G 7/19)</li> </ul>
Pro	ject: RP0575 (G06N	I)
М	G06N 3/00	Computer systems based on biological models <del>(analogue computers</del> <del>simulating functional aspects of living beings G06G 7/60)</del>
U	G06N 3/004	<ul> <li>{Artificial life, i.e. computers simulating life}</li> </ul>
Μ	G06N 3/006	<ul> <li>{based on simulated virtual individual or collective life forms, e.g. single "avatar", social simulations, virtual worlds or particle swarm optimisation}(computer games A63F 13/00; medical simulations G06F 19/00; information retrieval G06F 17/30873; image processing G06T; telecommunication protocols H04L 29/06034)}</li> </ul>

М	G06N 3/008	<ul> <li>{based on physical entities controlled by simulated intelligence so as to replicate intelligent life forms, e.g. robots replicating pets or humans in their appearance or behavior (toys or dolls A63H 3/00; industrial robot control G05B 19/00, B25J 9/00; artificial neural networks G06N 3/00; rule based artificial intelligence G06N 5/00)}</li> </ul>
Μ	G06N 3/02	<ul> <li>using neural network models (for adaptive control G05B 13/00; for image pattern matching G06K 9/00; for image data processing G06T 1/20; for phonetic pattern matching G10L 15/16)</li> </ul>
U	G06N 3/04	<ul> <li>Architectures, e.g. interconnection topology</li> </ul>
М	G06N 3/0409	<ul> <li>• • {Adaptive Resonance Theory resonance theory [ART] networks}</li> </ul>
М	G06N 5/00	Computer systems utilisingusing knowledge -based models
М	G06N 5/003	<ul> <li>{Dynamic search techniques; Heuristics; Dynamic trees; {Dynamic search techniques, heuristics, branchBranch-and-bound (G06N 5/046 take precedence; for optimisation G06Q 10/04)}</li> </ul>
U	G06N 5/006	<ul> <li>• {Automatic theorem proving}</li> </ul>
М	G06N 5/02	<ul> <li>Knowledge representation <del>{(G06N 5/04 takes precedence)}</del></li> </ul>
М	G06N 5/022	<ul> <li>• {Knowledge engineering, knowledge acquisition}; Knowledge acquisition}</li> </ul>
М	G06N 5/025	• • • {Extracting rules from data (learning in general G06F 15/18)}
U	G06N 5/04	Inference methods or devices
М	G06N 5/043	<ul> <li>{Distributed expert systems, blackboards}; Blackboards}</li> </ul>
М	G06N 5/046	<ul> <li>{Forward inferencing, production systems}; Production systems}</li> </ul>
М	G06N 5/047	<ul> <li>• • {Pattern matching networks, RETE}; RETE networks}</li> </ul>
U	G06N 7/00	Computer systems based on specific mathematical models
Μ	G06N 7/02	<ul> <li>using fuzzy logic (G06N 3/00, G06N 5/00 take precedence; for adaptive control G05B 13/00 computer systems based on biological models G06N 3/00; computer systems using knowledge-based models G06N 5/00)</li> </ul>
U	G06N 7/08	<ul> <li>using chaos models or non-linear system models</li> </ul>
N	G06N 10/00	Quantum computers, i.e. computer systems based on quantum-mechanical phenomena
Q	G06N 20/00	Machine learning
		WARNING
		Group <u>G06N 20/00</u> is impacted by reclassification into groups <u>G06N 20/10</u> and <u>G06N 20/20</u> . All groups listed in this Warning should be considered in order to perform a
		complete search.
Ν	G06N 20/10	<ul> <li>using kernel methods, e.g. support vector machines [SVM]</li> </ul>
		<u>WARNING</u>
		Group <u>G06N 20/10</u> is incomplete pending reclassification of documents from group <u>G06N 20/00</u> . Groups <u>G06N 20/00</u> and <u>G06N 20/10</u> should be considered in order to perform
		a complete search.
Ν	G06N 20/20	Ensemble learning
		WARNING
		Group <u>G06N 20/20</u> is incomplete pending reclassification of documents from group <u>G06N 20/00</u> .
		Groups $\underline{G06N 20/00}$ and $\underline{G06N 20/20}$ should be considered in order to perform a complete search.

U	G06N 99/00	Subject matter not provided for in other groups of this subclass
D	G06N 99/002	<ul> <li>{Quantum computers, i.e. information processing by using quantum superposition, coherence, decoherence, entanglement, nonlocality, teleportation}</li> <li><administratively 00="" 10="" g06n="" to="" transferred=""></administratively></li> </ul>
D	G06N 99/005	<ul> <li>{Learning machines, i.e. computer in which a programme is changed according to experience gained by the machine itself during a complete run (neural networks G06N 3/02; knowledge based models G06N 5/00; fuzzy logic systems G06N 7/02; adaptive control systems G05B 13/00)}</li> <li><administratively 00="" 20="" g06n="" to="" transferred=""></administratively></li> </ul>

### Project: RP0576 (A47J)

U	A47J 47/00	Miscellaneous kitchen containers, stands, or the like ({bowls for food processors <u>A47J 43/0727</u> }; containers in general <u>B65D</u> ); Cutting-boards, e.g. for bread (with slicing devices <u>B26D</u> )
С	A47J 47/20	<ul> <li>Grids, racks, or other supports removably mounted in, on, or over sinks (splash guards for sinks E03C 1/181, E03C 1/186); Splash guards for sinks</li> </ul>
		<u>WARNING</u> Group <u>A47J 47/20</u> is impacted by reclassification into groups <u>E03C 1/181</u> and <u>E03C 1/186</u> . Groups <u>A47J 47/20, E03C 1/181</u> , and <u>E03C 1/186</u> should be considered in order to perform a complete search.

# Project: RP0576 (E03C)

U	E03C 1/00	Domestic plumbing installations for fresh water or waste water; Sinks {(work tops <u>A47B 77/022</u> )}
U	E03C 1/12	<ul> <li>Plumbing installations for waste water; Basins or fountains connected thereto (drainage devices in floors <u>E03F 5/04</u>); Sinks {(wash-basins not connected to the waste-pipe <u>A47K 1/04</u>)}</li> </ul>
U	E03C 1/18	<ul> <li>Sinks, whether or not connected to the waste-pipe</li> </ul>
Е	E03C 1/181	<ul> <li>Anti-splash devices in sinks-, e.g. splash guards (jet regulators E03C 1/08)</li> </ul>
		<u>WARNING</u> Group <u>E03C 1/181</u> is incomplete pending reclassification of documents from group <u>A47J 47/20</u> . Groups <u>A47J 47/20</u> and <u>E03C 1/181</u> should be considered in order to perform a complete search.
Е	E03C 1/186	<ul> <li>Separate partition walls, lids, protecting borders, or the like, for sinks</li> </ul>
		<u>WARNING</u> Group <u>E03C 1/186</u> is incomplete pending reclassification of documents from group <u>A47J 47/20</u> . Groups <u>A47J 47/20</u> and <u>E03C 1/186</u> should be considered in order to perform a complete search.

# Project: RP0577 (A61K)

U	A61K 38/00	Medicinal preparations containing peptides (peptides containing beta- lactam rings <u>A61K 31/00</u> ; cyclic dipeptides not having in their molecule any other peptide link than those which form their ring, e.g. piperazine-2,5- diones, <u>A61K 31/00</u> ; ergot alkaloids of the cyclic peptide type <u>A61K 31/48</u> ; containing macromolecular compounds having statistically distributed amino acid units <u>A61K 31/74</u> ; medicinal preparations containing antigens or antibodies <u>A61K 39/00</u> ; medicinal preparations characterised by the non- active ingredients, e.g. peptides as drug carriers, <u>A61K 47/00</u> )
		<u>NOTES</u>
		<ol> <li>The terms or expressions used in this group follow exactly the definitions given in Note (1) following the title of subclass <u>C07K</u>.</li> </ol>
		2. Preparations containing fragments of peptides or peptides modified by removal or addition of amino acids, by substitution of amino acids by others, or by combination of these modifications are classified as the preparations containing parent peptides. However, preparations containing fragments of peptides having only four or less amino acids are also classified in groups <u>A61K 38/05</u> - <u>A61K 38/07</u> .
		3. Preparations containing peptides prepared by recombinant DNA technology are not classified according to the host, but according to the original peptide expressed, e.g. preparations containing HIV peptide expressed in E. coli are classified with the preparations containing HIV peptides.
		<ol> <li>This group <u>covers</u> also medicinal preparation containing DNA or RNA encoding for peptides as active ingredient.</li> </ol>
		5. Documents relating to new peptides, e.g. enzymes, or new DNA or RNA encoding for peptides and their use in medicinal preparations are classified in subclass <u>C07K</u> or in group <u>C12N 9/00</u> according to the peptides, with the appropriate indexing codes relating to their medical uses.
U	A61K 38/04	<ul> <li>Peptides having up to 20 amino acids in a fully defined sequence; Derivatives thereof ({enzyme inhibitors <u>A61K 38/005</u>}; gastrins {<u>A61K 38/2207</u>} somatostatins <u>A61K 38/31</u>, melanotropins <u>A61K 38/34</u>; {protease inhibitors <u>A61K 38/55</u>})</li> </ul>
С	A61K 38/08	<ul> <li>Peptides having 5 to 11 amino acids {(<u>A61K 38/043</u> - <u>A61K 38/046</u> take precedence)}</li> </ul>
		<u>WARNING</u>
		Group <u>A61K 38/08</u> is impacted by reclassification into group <u>A61K 38/095</u> . All groups listed in this Warning should be considered in order to perform a complete search.
U	A61K 38/085	· · · {Angiotensins}
U	A61K 38/09	<ul> <li>Luteinising hormone-releasing hormone [LHRH] {, i.e. Gonadotropin- releasing hormone [GnRH]}; Related peptides</li> </ul>
Ν	A61K 38/095	Oxytocins; Vasopressins; Related peptides
		WARNING Group <u>A61K 38/095</u> is incomplete pending reclassification of documents from group <u>A61K 38/08</u> . Groups <u>A61K 38/095</u> and <u>A61K 38/08</u> should be considered in order to perform a complete search.
U	A61K 38/10	<ul> <li>Peptides having 12 to 20 amino acids {(<u>A61K 38/043</u> - <u>A61K 38/046</u> take precedence)}</li> </ul>
U	A61K 38/105	• • {Bombesin; Related peptides}

D	A61K 38/11	<ul> <li>Oxytocins; Vasopressins; Related peptides</li> <li><administratively <u="" to="" transferred="">A61K 38/095&gt;</administratively></li> </ul>		
U	A61K 38/16	<ul> <li>Peptides having more than 20 amino acids; Gastrins; Somatostatins; Melanotropins; Derivatives thereof {(enzyme inhibitors <u>A61K 38/005</u>)}</li> </ul>		
U	A61K 38/17	<ul> <li>from animals; from humans {(enzyme inhibitors <u>A61K 38/005</u>)}</li> </ul>		
U	A61K 38/22	<ul> <li>Hormones (derived from pro-opiomelanocortin, pro-enkephalin or pro- dynorphin <u>A61K 38/33</u>, e.g. corticotropin <u>A61K 38/35</u>)</li> </ul>		
Μ	A61K 38/25	<ul> <li>Growth hormone-releasing factor ([GH-RF)] (Somatoliberin)</li> </ul>		
Project: RP0580 (G06F)				
	G06F 3/06	<ul> <li>Digital input from or digital output to record carriers, {e.g. RAID, emulated record carriers, networked record carriers (recording or reproducing devices per se G11B; error detection, error correction, monitoring per se regarding storage systems G06F 11/00; accessing or addressing within memory systems or architectures G06F 12/00; information retrieval G06F 17/30G06F 16/00)}</li> </ul>		
U	G06F 7/00	Methods or arrangements for processing data by operating upon the order or content of the data handled (logic circuits <u>H03K 19/00</u> )		
	G06F 7/02	<ul> <li>Comparing digital values (<u>G06F 7/06</u>, {<u>G06F 7/22</u>, } <u>G06F 7/38</u> take precedence; information retrieval <u>G06F 17/30G06F 16/00</u>; comparing pulses <u>H03K 5/22</u>)</li> </ul>		
U	G06F 11/00	Error detection; Error correction; Monitoring (error detection, correction or monitoring in information storage based on relative movement between record carrier and transducer <u>G11B 20/18</u> ; monitoring, i.e. supervising the progress of recording or reproducing <u>G11B 27/36</u> ; in static stores <u>G11C 29/00</u> )		
		<u>NOTE</u> In this group the indexing codes of <u>G06F 1/00</u> - <u>G06F 15/00</u> are added		
U	G06F 11/07	<ul> <li>Responding to the occurrence of a fault, e.g. fault tolerance</li> </ul>		
U	G06F 11/14	<ul> <li>Error detection or correction of the data by redundancy in operation (<u>G06F 11/16</u> takes precedence)</li> </ul>		
U	G06F 11/1402	<ul> <li>• {Saving, restoring, recovering or retrying}</li> </ul>		
	G06F 11/1474	• • • {in transactions (G06F 17/30286G06F 16/20 takes precedence)}		
N	G06F 16/00	Information retrieval; Database structures therefor; File system structures therefor		
Ν	G06F 16/10	File systems; File servers		
Ν	G06F 16/11	<ul> <li>File system administration, e.g. details of archiving or snapshots (file system backup <u>G06F 11/14</u>)</li> </ul>		
Ν	G06F 16/113	<ul> <li>• • {Details of archiving (lifecycle management in storage systems <u>G06F 3/0649</u>; backup systems <u>G06F 11/1446</u>)}</li> </ul>		
Ν	G06F 16/116	<ul> <li>• {Details of conversion of file system types or formats}</li> </ul>		
Ν	G06F 16/119	<ul> <li>• • {Details of migration of file systems (migration mechanisms in storage systems <u>G06F 3/0647</u>)}</li> </ul>		
Ν	G06F 16/122	<ul> <li>• {using management policies (backup systems <u>G06F 11/1446</u>; file migration policies for HSM systems <u>G06F 16/185</u>)}</li> </ul>		
Ν	G06F 16/125	<ul> <li>• • {characterised by the use of retention policies (retention policies for HSM systems <u>G06F 16/185</u>)}</li> </ul>		
Ν	G06F 16/128	<ul> <li>{Details of file system snapshots on the file-level, e.g. snapshot creation, administration, deletion (use of snapshots for error detection or correction <u>G06F 11/14</u>, <u>G06F 11/16</u>)}</li> </ul>		

Ν	G06F 16/13	<ul> <li>File access structures, e.g. distributed indices (arrangements of input from, or output to, record carriers <u>G06F 3/06</u>)</li> </ul>
Ν	G06F 16/134	• • {Distributed indices}
Ν	G06F 16/137	• • • {Hash-based (content-based indexing of textual data G06F 16/31)}
Ν	G06F 16/14	<ul> <li>Details of searching files based on file metadata</li> </ul>
Ν	G06F 16/144	• • • {Query formulation}
Ν	G06F 16/148	· · · {File search processing}
Ν	G06F 16/152	•••• {using file content signatures, e.g. hash values}
Ν	G06F 16/156	• • {Query results presentation}
Ν	G06F 16/16	<ul> <li>File or folder operations, e.g. details of user interfaces specifically adapted to file systems</li> </ul>
Ν	G06F 16/162	• • • {Delete operations (erasing in storage systems <u>G06F 3/0652</u> )}
Ν	G06F 16/164	· · · {File meta data generation}
Ν	G06F 16/166	•••• {File name conversion}
Ν	G06F 16/168	<ul> <li>• • {Details of user interfaces specifically adapted to file systems, e.g. browsing and visualisation, 2d or 3d GUIs (query results presentation <u>G06F 16/156</u>)}</li> </ul>
Ν	G06F 16/17	Details of further file system functions
Ν	G06F 16/172	• • Caching, prefetching or hoarding of files
Ν	G06F 16/1724	<ul> <li>• • {Details of de-fragmentation performed by the file system (saving storage space on storage systems <u>G06F 3/0608</u>; management of blocks in storage devices <u>G06F 3/064</u>)}</li> </ul>
Ν	G06F 16/1727	<ul> <li>• • {Details of free space management performed by the file system (saving storage space on storage systems <u>G06F 3/0608</u>; management of blocks in storage devices <u>G06F 3/064</u>)}</li> </ul>
Ν	G06F 16/173	<ul> <li>• • {Customisation support for file systems, e.g. localisation, multi-language support, personalisation}</li> </ul>
Ν	G06F 16/1734	<ul> <li>• • {Details of monitoring file system events, e.g. by the use of hooks, filter drivers, logs}</li> </ul>
Ν	G06F 16/1737	<ul> <li>• {for reducing power consumption or coping with limited storage space, e.g. in mobile devices (saving storage space on storage devices <u>G06F 3/0608;</u> power saving in storage systems <u>G06F 3/0625</u>)}</li> </ul>
Ν	G06F 16/174	<ul> <li>Redundancy elimination performed by the file system (management of the data involved in backup or backup restore using de-duplication of the data <u>G06F 11/14</u>)</li> </ul>
Ν	G06F 16/1744	•••• {using compression, e.g. sparse files}
Ν	G06F 16/1748	<ul> <li>• • {De-duplication implemented within the file system, e.g. based on file segments (de-duplication techniques in storage systems for the management of data blocks <u>G06F 3/0641</u>)}</li> </ul>
Ν	G06F 16/1752	· · · · {based on file chunks}
Ν	G06F 16/1756	• • • • {based on delta files}
Ν	G06F 16/176	<ul> <li>Support for shared access to files; File sharing support</li> </ul>
Ν	G06F 16/1767	•••• {Concurrency control, e.g. optimistic or pessimistic approaches}
Ν	G06F 16/1774	• • • • {Locking methods, e.g. locking methods for file systems allowing shared and concurrent access to files}
Ν	G06F 16/178	
Ν	G06F 16/1787	•••• {Details of non-transparently synchronising file systems}

Q	G06F 16/1794	• • • {Details of file format conversion}
		WARNING
		Group G06F 16/1794 is impacted by reclassification into group
		<u>G06F 16/258</u> . Groups <u>G06F 16/1794</u> and <u>G06F 16/258</u> should be considered in order to
		perform a complete search.
N	G06F 16/18	File system types
N	G06F 16/1805	• • {Append-only file systems, e.g. using logs or journals to store data}
N	G06F 16/181	• • • {providing write once read many [WORM] semantics}
N	G06F 16/1815	• • • {Journaling file systems}
N	G06F 16/182	Distributed file systems
Ν	G06F 16/1824	<ul> <li>• • • {implemented using Network-attached Storage [NAS] architecture (distributed or networked storage systems <u>G06F 3/067</u>; protocols for distributed storage of data in a network <u>H04L 67/1097</u>)}</li> </ul>
Ν	G06F 16/1827	<ul> <li>•••• {Management specifically adapted to NAS (management of storage area networks [SAN] <u>G06F 3/067</u>)}</li> </ul>
Ν	G06F 16/183	<ul> <li>Provision of network file services by network file servers, e.g. by using NFS, CIFS (network file access protocols <u>H04L 67/1097</u>)}</li> </ul>
Ν	G06F 16/1834	<ul> <li>• • {implemented based on peer-to-peer networks, e.g. gnutella (p2p communication protocols <u>H04L 67/104</u>)}</li> </ul>
Ν	G06F 16/1837	<ul> <li>•••• {Management specially adapted to peer-to-peer storage networks (topology management mechanisms of peer-to-peer networks <u>H04L 67/1042</u>)}</li> </ul>
Ν	G06F 16/184	• • • {implemented as replicated file system}
Ν	G06F 16/1844	•••• {Management specifically adapted to replicated file systems}
Ν	G06F 16/1847	<ul> <li>• • {specifically adapted to static storage, e.g. adapted to flash memory or SSD}</li> </ul>
Ν	G06F 16/185	<ul> <li>Hierarchical storage management [HSM] systems, e.g. file migration or policies thereof (details of archiving <u>G06F 16/11</u>)</li> </ul>
Ν	G06F 16/1858	<ul> <li>• • {Parallel file systems, i.e. file systems supporting multiple processors}</li> </ul>
Ν	G06F 16/1865	• • {Transactional file systems}
Ν	G06F 16/1873	<ul> <li>• {Versioning file systems, temporal file systems, e.g. file system supporting different historic versions of files}</li> </ul>
Ν	G06F 16/188	• • • Virtual file systems
Ν	G06F 16/192	• • • {Implementing virtual folder structures}
Ν	G06F 16/196	<ul> <li>• • {Specific adaptations of the file system to access devices and non-file objects via standard file system access operations, e.g. pseudo file systems (dedicated interfaces to storage systems <u>G06F 3/0601</u>)}</li> </ul>
Ν	G06F 16/20	<ul> <li>of structured data, e.g. relational data</li> </ul>
Ν	G06F 16/21	Design, administration or maintenance of databases
Ν	G06F 16/211	• • {Schema design and management}
Ν	G06F 16/212	•••• {with details for data modelling support}
Ν	G06F 16/213	• • • • {with details for schema evolution support}
Ν	G06F 16/214	• • {Database migration support}
Ν	G06F 16/215	<ul> <li>Improving data quality; Data cleansing, e.g. de-duplication, removing invalid entries or correcting typographical errors</li> </ul>
Ν	G06F 16/217	<ul> <li>• • {Database tuning (<u>G06F 16/2282</u> takes precedence; database performance monitoring <u>G06F 11/3409</u>)}</li> </ul>

Ν	G06F 16/219	<ul> <li>• • {Managing data history or versioning (querying versioned data <u>G06F 16/2474</u>; querying temporal data <u>G06F 16/2477</u>)}</li> </ul>
Ν	G06F 16/22	<ul> <li>Indexing; Data structures therefor; Storage structures</li> </ul>
Ν	G06F 16/221	• • {Column-oriented storage; Management thereof}
Ν	G06F 16/2219	<ul> <li>• • {Large Object storage; Management thereof}</li> </ul>
Ν	G06F 16/2228	• • {Indexing structures}
Ν	G06F 16/2237	• • • • {Vectors, bitmaps or matrices}
Ν	G06F 16/2246	• • • • { <i>Trees, e.g. B</i> + <i>trees</i> }
Ν	G06F 16/2255	•••• {Hash tables}
Ν	G06F 16/2264	• • • {Multidimensional index structures}
Ν	G06F 16/2272	• • • {Management thereof}
Ν	G06F 16/2282	<ul> <li>• • {Tablespace storage structures; Management thereof}</li> </ul>
Ν	G06F 16/2291	<ul> <li>• • {User-Defined Types; Storage management thereof}</li> </ul>
Q	G06F 16/23	• Updating
		WARNING
		Group G06F 16/23 is impacted by reclassification into group G06F 16/25. Groups G06F 16/23 and G06F 16/25 should be considered in order to perform a complete search.
Q	G06F 16/2308	<ul> <li>• • {Concurrency control (transaction processing <u>G06F 9/466</u>)}</li> </ul>
		WARNING
		Group <u>G06F 16/2308</u> is impacted by reclassification into groups <u>G06F 16/2315</u> , <u>G06F 16/2322</u> , <u>G06F 16/2329</u> , <u>G06F 16/2336</u> , and <u>G06F 16/2343</u> . All groups listed in this Warning should be considered in order to perform a complete search.
Ν	G06F 16/2315	• • • {Optimistic concurrency control}
		<u>WARNING</u> Groups <u>G06F 16/2315</u> - <u>G06F 16/2329</u> are incomplete pending reclassification of documents from group <u>G06F 16/2308</u> . Groups <u>G06F 16/2308</u> and <u>G06F 16/2315</u> - <u>G06F 16/2329</u> should be considered in order to perform a complete search.
Ν	G06F 16/2322	•••••{using timestamps}
Ν	G06F 16/2329	•••• {using versioning}
Ν	G06F 16/2336	<ul> <li>• • • {Pessimistic concurrency control approaches, e.g. locking or multiple versions without time stamps}</li> </ul>
		WARNING
		Groups <u>G06F 16/2336</u> and <u>G06F 16/2343</u> are incomplete pending reclassification of documents from group <u>G06F 16/2308</u> . Groups <u>G06F 16/2308</u> , <u>G06F 16/2336</u> , and <u>G06F 16/2343</u> should be considered in order to perform a complete search.
Ν	G06F 16/2343	<ul> <li>•••• {Locking methods, e.g. distributed locking or locking implementation details}</li> </ul>
Ν	G06F 16/235	• • {Update request formulation}
Ν	G06F 16/2358	••• {Change logging, detection, and notification (replication <u>G06F 16/27</u> )}
Ν	G06F 16/2365	<ul> <li>• • {Ensuring data consistency and integrity}</li> </ul>
Ν	G06F 16/2372	• • {Updates performed during offline database operations}

Ν	G06F 16/2379	• • • {Updates performed during online database operations; commit processing}
Ν	G06F 16/2386	• • • • {Bulk updating operations (data conversion details <u>G06F 16/258</u> )}
Ν	G06F 16/2393	• • {Updating materialised views}
Ν	G06F 16/24	• • Querying
Ν	G06F 16/242	• • • Query formulation
Ν	G06F 16/2423	• • • • {Interactive query statement specification based on a database schema}
Ν	G06F 16/2425	<ul> <li>• • {Iterative querying; Query formulation based on the results of a preceding query}</li> </ul>
Ν	G06F 16/2428	<ul> <li>• • {Query predicate definition using graphical user interfaces, including menus and forms (<u>G06F 16/2423</u> takes precedence)}</li> </ul>
Ν	G06F 16/243	• • • {Natural language query formulation}
Ν	G06F 16/2433	• • • • {Query languages}
Ν	G06F 16/2435	• • • • {Active constructs}
Ν	G06F 16/2438	• • • • • {Embedded query languages}
Ν	G06F 16/244	••••• {Grouping and aggregation}
Ν	G06F 16/2443	• • • • {Stored procedures}
Ν	G06F 16/2445	••••• {Data retrieval commands; View definitions}
Ν	G06F 16/2448	••••• {for particular applications; for extensibility, e.g. user defined types}
Ν	G06F 16/245	• • • Query processing
Ν	G06F 16/2452	• • • • Query translation
Ν	G06F 16/24522	••••• {Translation of natural language queries to structured queries}
Ν	G06F 16/24524	••••• {Access plan code generation and invalidation; Reuse of access plans}
Ν	G06F 16/24526	••••• {Internal representations for queries}
Ν	G06F 16/24528	•••••{Standardisation; Simplification}
Ν	G06F 16/2453	• • • • Query optimisation
Ν	G06F 16/24532	•••• {of parallel queries}
Ν	G06F 16/24534	•••••{Query rewriting; Transformation}
Ν	G06F 16/24535	••••• {of sub-queries or views}
Ν	G06F 16/24537	••••• {of operators}
Ν	G06F 16/24539	••••• {using cached or materialised query results}
Ν	G06F 16/2454	••••• {Optimisation of common expressions}
Ν	G06F 16/24542	••••• {Plan optimisation}
Ν	G06F 16/24544	••••• {Join order optimisation}
Ν	G06F 16/24545	••••• {Selectivity estimation or determination}
Ν	G06F 16/24547	<ul> <li>•••• {Optimisations to support specific applications; Extensibility of optimisers}</li> </ul>
Ν	G06F 16/24549	••••• {Run-time optimisation}
Ν	G06F 16/2455	• • • • Query execution
Ν	G06F 16/24552	•••••{Database cache management}
Ν	G06F 16/24553	•••• {of query operations}
Ν	G06F 16/24554	••••• {Unary operations; Data partitioning operations}
Ν	G06F 16/24556	••••• {Aggregation; Duplicate elimination}
Ν	G06F 16/24557	••••• {Efficient disk access during query execution}
Ν	G06F 16/24558	••••• {Binary matching operations}
Ν	G06F 16/2456	••••• {Join operations}

Ν	G06F 16/24561	••••• {Intermediate data storage techniques for performance improvement}
Ν	G06F 16/24562	••••• {Pointer or reference processing operations}
Ν	G06F 16/24564	• • • • {Applying rules; Deductive queries}
Ν	G06F 16/24565	••••• {Triggers; Constraints}
Ν	G06F 16/24566	••••• {Recursive queries}
Ν	G06F 16/24568	•••• {Data stream processing; Continuous queries}
Ν	G06F 16/24569	<ul> <li>• • • {Query processing with adaptation to specific hardware, e.g. adapted for using GPUs or SSDs}</li> </ul>
Ν	G06F 16/2457	• • • • with adaptation to user needs
Ν	G06F 16/24573	•••• {using data annotations, e.g. user-defined metadata}
Ν	G06F 16/24575	•••• {using context}
Ν	G06F 16/24578	•••• {using ranking}
Ν	G06F 16/2458	<ul> <li>Special types of queries, e.g. statistical queries, fuzzy queries or distributed queries</li> </ul>
Ν	G06F 16/2462	· · · · {Approximate or statistical queries}
Ν	G06F 16/2465	<ul> <li>••• {Query processing support for facilitating data mining operations in structured databases}</li> </ul>
Ν	G06F 16/2468	•••• {Fuzzy queries}
Ν	G06F 16/2471	•••• {Distributed queries}
Ν	G06F 16/2474	•••••{Sequence data queries, e.g. querying versioned data}
Ν	G06F 16/2477	•••• {Temporal data queries}
Ν	G06F 16/248	Presentation of query results
Ν	G06F 16/25	<ul> <li>Integrating or interfacing systems involving database management systems</li> </ul>
		<u>WARNING</u> Group <u>G06F 16/25</u> is incomplete pending reclassification of documents from group <u>G06F 16/23</u> . Groups <u>G06F 16/23</u> and <u>G06F 16/25</u> should be considered in order to perform a complete search.
Ν	G06F 16/252	••• {between a Database Management System and a front-end application}
Ν	G06F 16/254	<ul> <li>• • {Extract, transform and load [ETL] procedures, e.g. ETL data flows in data warehouses}</li> </ul>
Ν	G06F 16/256	<ul> <li>• • {in federated or virtual databases}</li> </ul>
Ν	G06F 16/258	<ul> <li>• • {Data format conversion from or to a database}</li> </ul>
		<u>WARNING</u> Groups <u>G06F 16/258</u> is incomplete pending reclassification of documents from group <u>G06F 16/1794</u> . Groups <u>G06F 16/1794</u> and <u>G06F 16/258</u> should be considered in order to perform a complete search.
Ν	G06F 16/26	Visual data mining; Browsing structured data
Q	G06F 16/27	<ul> <li>Replication, distribution or synchronisation of data between databases or within a distributed database system; Distributed database system architectures therefor</li> <li><u>WARNING</u></li> </ul>
		Group <u>G06F 16/27</u> is impacted by reclassification into groups <u>G06F 16/273</u> , <u>G06F 16/275</u> , and <u>G06F 16/278</u> . All groups listed in this Warning should be considered in order to perform a complete search.

Ν	G06F 16/273	• • {Asynchronous replication or reconciliation}
		WARNING
		Groups G06F 16/273 is incomplete pending reclassification of documents
		from group <u>G06F 16/27</u> .
		Groups <u>G06F 16/27</u> and <u>G06F 16/273</u> should be considered in order to perform a complete search.
Ν	G06F 16/275	• • {Synchronous replication}
		WARNING
		Groups <u>G06F 16/275</u> is incomplete pending reclassification of documents from group <u>G06F 16/27</u> .
		Groups <u>G06F 16/27</u> and <u>G06F 16/275</u> should be considered in order to
		perform a complete search.
Ν	G06F 16/278	• • {Data partitioning, e.g. horizontal or vertical partitioning}
		WARNING
		Groups <u>G06F 16/278</u> is incomplete pending reclassification of documents
		from group <u>G06F 16/27</u> . Groups <u>G06F 16/27</u> and <u>G06F 16/278</u> should be considered in order to
		perform a complete search.
Ν	G06F 16/28	Databases obstractorized by their database models, e.g. relational or object
11	GUOF 10/28	<ul> <li>Databases characterised by their database models, e.g. relational or object models</li> </ul>
Ν	G06F 16/282	• • • {Hierarchical databases, e.g. IMS, LDAP data stores or Lotus Notes}
Ν	G06F 16/283	• • • {Multi-dimensional databases or data warehouses, e.g. MOLAP or ROLAP}
Ν	G06F 16/284	• • • {Relational databases}
Ν	G06F 16/285	• • • {Clustering or classification}
Ν	G06F 16/287	•••••{Visualization; Browsing}
Ν	G06F 16/288	• • • {Entity relationship models}
Ν	G06F 16/289	<ul> <li>• • {Object oriented databases}</li> </ul>
Ν	G06F 16/29	Geographical information databases
Ν	G06F 16/30	<ul> <li>of unstructured textual data (document management systems G06F 16/93)</li> </ul>
		<u>NOTE</u>
		In groups <u>G06F 16/30</u> , <u>G06F 16/31</u> , <u>G06F 16/313</u> , <u>G06F 16/316</u> ,
		<u>G06F 16/319</u> , <u>G06F 16/322</u> , <u>G06F 16/325</u> , <u>G06F 16/328</u> , <u>G06F 16/33</u> ,
		<u>G06F 16/332</u> , <u>G06F 16/3322</u> , <u>G06F 16/3323</u> , <u>G06F 16/3325</u> , <u>G06F 16/3326</u> , <u>G06F 16/3328</u> , <u>G06F 16/3329</u> , <u>G06F 16/3331</u> , <u>G06F 16/3332</u> ,
		<u>G06F 16/3334,</u> <u>G06F 16/3335,</u> <u>G06F 16/3337,</u> <u>G06F 16/3338,</u>
		<u>G06F 16/334, G06F 16/3341, G06F 16/3343, G06F 16/3344, G06F 16/3346,</u>
		<u>G06F 16/3347, G06F 16/3349, G06F 16/335, G06F 16/337, G06F 16/338,</u>
		<u>G06F 16/34, G06F 16/345, G06F 16/35, G06F 16/353, G06F 16/355,</u> <u>G06F 16/358, G06F 16/36, G06F 16/367</u> and <u>G06F 16/374</u> , subject matter
		relevant to retrieval characterised by using metadata, when it is determined
		to be novel and non-obvious, must also be classified in groups G06F 16/38,
		<u>G06F 16/381, G06F 16/382, G06F 16/383</u> , and <u>G06F 16/387</u> .
Ν	G06F 16/31	Indexing; Data structures therefor; Storage structures
Ν	G06F 16/313	<ul> <li>• • {Selection or weighting of terms for indexing}</li> </ul>
Ν	G06F 16/316	• • {Indexing structures}
Ν	G06F 16/319	• • • • {Inverted lists}
Ν	G06F 16/322	· · · · {Trees}
Ν	G06F 16/325	••••{Hash tables}

Ν	G06F 16/328	• • • {Management therefor}
Ν	G06F 16/33	• • Querying
Ν	G06F 16/332	• • • Query formulation
Ν	G06F 16/3322	• • • • {using system suggestions ( <u>G06F 16/3325</u> takes precedence)}
Ν	G06F 16/3323	<ul> <li>•••• {using document space presentation or visualization, e.g. category, hierarchy or range presentation and selection}</li> </ul>
Ν	G06F 16/3325	•••• {Reformulation based on results of preceding query}
Ν	G06F 16/3326	<ul> <li>••• {using relevance feedback from the user, e.g. relevance feedback on documents, documents sets, document terms or passages}</li> </ul>
Ν	G06F 16/3328	••••• {using graphical result space presentation or visualisation}
Ν	G06F 16/3329	•••• {Natural language query formulation or dialogue systems}
Ν	G06F 16/3331	• • {Query processing}
Ν	G06F 16/3332	• • • • {Query translation}
Ν	G06F 16/3334	<ul> <li>••• {Selection or weighting of terms from queries, including natural language queries}</li> </ul>
Ν	G06F 16/3335	••••• {Syntactic pre-processing, e.g. stopword elimination, stemming}
Ν	G06F 16/3337	••••• {Translation of the query language, e.g. Chinese to English}
Ν	G06F 16/3338	•••••{Query expansion}
Ν	G06F 16/334	• • • • {Query execution ( <u>G06F 16/335</u> takes precedence)}
Ν	G06F 16/3341	•••• {using boolean model}
Ν	G06F 16/3343	•••• {using phonetics}
Ν	G06F 16/3344	••••• {using natural language analysis}
Ν	G06F 16/3346	• • • • {using probabilistic model}
Ν	G06F 16/3347	· · · · {using vector based model}
Ν	G06F 16/3349	• • • • {Reuse of stored results of previous queries}
Ν	G06F 16/335	<ul> <li>Filtering based on additional data, e.g. user or group profiles (filtering in web context <u>G06F 16/9535</u>, <u>G06F 16/9536</u>)</li> </ul>
Ν	G06F 16/337	• • • • {Profile generation, learning or modification}
Ν	G06F 16/338	Presentation of query results
Ν	G06F 16/34	Browsing; Visualisation therefor
Ν	G06F 16/345	• • {Summarisation for human users}
Ν	G06F 16/35	Clustering; Classification
Ν	G06F 16/353	• • {into predefined classes}
Ν	G06F 16/355	• • {Class or cluster creation or modification}
Ν	G06F 16/358	• • {Browsing; Visualisation therefor}
Ν	G06F 16/36	Creation of semantic tools, e.g. ontology or thesauri
Ν	G06F 16/367	• • • {Ontology}
Ν	G06F 16/374	• • • {Thesaurus}
Q	G06F 16/38	<ul> <li>Retrieval characterised by using metadata, e.g. metadata not derived from the content or metadata generated manually</li> </ul>
		<u>WARNING</u> Group <u>G06F 16/38</u> is impacted by reclassification into groups <u>G06F 16/383</u> and <u>G06F 16/387</u> . All groups listed in this Warning should be considered in order to perform a complete search.
Ν	G06F 16/381	<ul> <li>• • {using identifiers, e.g. barcodes, RFIDs (for URLs <u>G06F 16/9554</u>)}</li> </ul>

Ν	G06F 16/382	• • {using citations (hypermedia G06F 16/94)}
Ν	G06F 16/383	• • using metadata automatically derived from the content
		WARNING
		Group <u>G06F 16/383</u> is incomplete pending reclassification of documents from group <u>G06F 16/38</u> .
		Groups <u>G06F 16/38</u> and <u>G06F 16/383</u> should be considered in order to perform a complete search.
Ν	G06F 16/387	• • • using geographical or spatial information, e.g. location
		WARNING
		Group <u>G06F 16/387</u> is incomplete pending reclassification of documents from group <u>G06F 16/38</u> .
		Groups $G06F 16/38$ and $G06F 16/387$ should be considered in order to perform a complete search.
Q	G06F 16/40	of multimedia data, e.g. slideshows comprising image and additional audio data
		(retrieval of still image data <u>G06F 16/50</u> ; retrieval of audio data <u>G06F 16/60;</u> retrieval of video data <u>G06F 16/70</u> )
		<u>NOTE</u>
		In groups <u>G06F 16/40</u> , <u>G06F 16/41</u> , <u>G06F 16/43</u> , <u>G06F 16/432</u> , <u>G06F 16/433</u> , <u>G06F 16/434</u> , <u>G06F 16/435</u> , <u>G06F 16/436</u> , <u>G06F 16/437</u> ,
		<u>G06F 16/438, G06F 16/4387, G06F 16/4393, G06F 16/44, G06F 16/444,</u> <u>G06F 16/447</u> and <u>G06F 16/45</u> , subject matter relevant to retrieval characterised
		by using metadata, when it is determined to be novel and non-obvious, must
		also be classified in groups <u>G06F 16/48</u> , <u>G06F 16/483</u> , <u>G06F 16/487</u> and <u>G06F 16/489</u> .
		WARNING
		Group <u>G06F 16/40</u> is impacted by reclassification into groups <u>G06F 16/45,</u> <u>G06F 16/48</u> , <u>G06F 16/483</u> , <u>G06F 16/487</u> , and <u>G06F 16/489</u> .
		All groups listed in this Warning should be considered in order to perform a complete search.
Ν	G06F 16/41	Indexing; Data structures therefor; Storage structures
Q	G06F 16/43	• • Querying
		WARNING
		Group <u>G06F 16/43</u> is impacted by reclassification into groups <u>G06F 16/432</u> , $C005F 16/402 = C005F 16/402$
		<u>G06F 16/48, G06F 16/483, G06F 16/487</u> , and <u>G06F 16/489</u> . All groups listed in this Warning should be considered in order to perform a
		complete search.
Ν	G06F 16/432	• • • Query formulation
		WARNING
		Group <u>G06F 16/432</u> is incomplete pending reclassification of documents
		from group <u>G06F 16/43</u> . Groups <u>G06F 16/43</u> and <u>G06F 16/432</u> should be considered in order to
		perform a complete search.
Ν	G06F 16/433	•••• {using audio data}
Ν	G06F 16/434	•••• {using image data, e.g. images, photos, pictures taken by a user}
Ν	G06F 16/435	• • • Filtering based on additional data, e.g. user or group profiles
Ν	G06F 16/436	<ul> <li>• • {using biological or physiological data of a human being, e.g. blood pressure, facial expression, gestures}</li> </ul>

Ν	G06F 16/437	<ul> <li>• • • {Administration of user profiles, e.g. generation, initialisation, adaptation, distribution}</li> </ul>
Ν	G06F 16/438	Presentation of query results
Ν	G06F 16/4387	•••• {by the use of playlists}
Ν	G06F 16/4393	••••• {Multimedia presentations, e.g. slide shows, multimedia albums}
Ν	G06F 16/44	Browsing; Visualisation therefor
Ν	G06F 16/444	<ul> <li>• {Spatial browsing, e.g. 2D maps, 3D or virtual spaces}</li> </ul>
Ν	G06F 16/447	<ul> <li>• {Temporal browsing, e.g. timeline}</li> </ul>
Ν	G06F 16/45	Clustering; Classification
		WARNING
		Group <u>G06F 16/45</u> is incomplete pending reclassification of documents from group <u>G06F 16/40</u> . Groups <u>G06F 16/40</u> and <u>G06F 16/45</u> should be considered in order to perform a complete search.
Ν	G06F 16/48	<ul> <li>Retrieval characterised by using metadata, e.g. metadata not derived from the content or metadata generated manually</li> </ul>
		WARNING
		Group <u>G06F 16/48</u> is incomplete pending reclassification of documents from
		groups <u>G06F 16/40</u> and <u>G06F 16/43</u> . Groups <u>G06F 16/40</u> , <u>G06F 16/43</u> , and <u>G06F 16/48</u> should be considered in order to perform a complete search.
Ν	G06F 16/483	• • • using metadata automatically derived from the content
		WARNING
		Group <u>G06F 16/483</u> is incomplete pending reclassification of documents
		from groups <u>G06F 16/40</u> and <u>G06F 16/43</u> . Groups <u>G06F 16/40</u> , <u>G06F 16/43</u> , and <u>G06F 16/483</u> should be considered
		in order to perform a complete search.
Ν	G06F 16/487	• • • using geographical or spatial information, e.g. location
		WARNING
		Group <u>G06F 16/487</u> is incomplete pending reclassification of documents
		from groups <u>G06F 16/40</u> and <u>G06F 16/43</u> . Groups <u>G06F 16/40</u> , <u>G06F 16/43</u> , and <u>G06F 16/487</u> should be considered
		in order to perform a complete search.
Ν	G06F 16/489	• • {using time information}
		WARNING
		Group G06F 16/489 is incomplete pending reclassification of documents
		from groups <u>G06F 16/40</u> and <u>G06F 16/43</u> .
		Groups G06F 16/40, G06F 16/43, and G06F 16/489 should be considered in order to perform a complete search.
Q	G06F 16/50	of still image data
		NOTE
		In groups <u>G06F 16/50</u> , <u>G06F 16/51</u> , <u>G06F 16/53</u> , <u>G06F 16/532</u> ,
		<u>G06F 16/535</u> , <u>G06F 16/538</u> , <u>G06F 16/54</u> , <u>G06F 16/55</u> and <u>G06F 16/56</u> , subject matter relevant to retrieval characterised by using metadata, when it
		is determined to be novel and non-obvious, must also be classified in groups

		<u>G06F 16/58,  G06F 16/583,  G06F 16/5838,  G06F 16/5846,  G06F 16/5854,</u> <u>G06F 16/5862</u> and <u>G06F 16/587</u> .
		WARNING
		Group <u>G06F 16/50</u> is impacted by reclassification into groups <u>G06F 16/53</u> , <u>G06F 16/532</u> , <u>G06F 16/535</u> , <u>G06F 16/538</u> , and <u>G06F 16/55</u> . All groups listed in this Warning should be considered in order to perform a complete search.
Ν	G06F 16/51	Indexing; Data structures therefor; Storage structures
Ν	G06F 16/53	• • Querying
		WARNING
		Group <u>G06F 16/53</u> is incomplete pending reclassification of documents from group <u>G06F 16/50</u> . Groups <u>G06F 16/50</u> and <u>G06F 16/53</u> should be considered in order to perform a complete search.
Ν	G06F 16/532	Query formulation, e.g. graphical querying
		WARNING
		Group <u>G06F 16/532</u> is incomplete pending reclassification of documents from group <u>G06F 16/50</u> .
		Groups $G06F 16/50$ and $G06F 16/532$ should be considered in order to perform a complete search.
Ν	G06F 16/535	• • • Filtering based on additional data, e.g. user or group profiles
		WARNING
		Group <u>G06F 16/535</u> is incomplete pending reclassification of documents from group <u>G06F 16/50</u> . Groups <u>G06F 16/50</u> and <u>G06F 16/535</u> should be considered in order to perform a complete search.
Ν	G06F 16/538	Presentation of query results
		WARNING
		Group <u>G06F 16/538</u> is incomplete pending reclassification of documents
		Group <u>G06F 16/538</u> is incomplete pending reclassification of documents from group <u>G06F 16/50</u> . Groups <u>G06F 16/50</u> and <u>G06F 16/538</u> should be considered in order to perform a complete search.
N	G06F 16/54	from group <u>G06F 16/50</u> . Groups <u>G06F 16/50</u> and <u>G06F 16/538</u> should be considered in order to
N N	G06F 16/54 G06F 16/55	from group <u>G06F 16/50</u> . Groups <u>G06F 16/50</u> and <u>G06F 16/538</u> should be considered in order to perform a complete search.
		<ul> <li>from group <u>G06F 16/50</u>.</li> <li>Groups <u>G06F 16/50</u> and <u>G06F 16/538</u> should be considered in order to perform a complete search.</li> <li>Browsing; Visualisation therefor</li> </ul>
		<ul> <li>from group <u>G06F 16/50</u>. Groups <u>G06F 16/50</u> and <u>G06F 16/538</u> should be considered in order to perform a complete search.</li> <li>Browsing; Visualisation therefor</li> <li>Clustering; Classification <u>WARNING</u> Group <u>G06F 16/55</u> is incomplete pending reclassification of documents from</li> </ul>
		<ul> <li>from group <u>G06F 16/50</u>. Groups <u>G06F 16/50</u> and <u>G06F 16/538</u> should be considered in order to perform a complete search.</li> <li>Browsing; Visualisation therefor</li> <li>Clustering; Classification <u>WARNING</u></li> </ul>
		<ul> <li>from group <u>G06F 16/50</u>. Groups <u>G06F 16/50</u> and <u>G06F 16/538</u> should be considered in order to perform a complete search.</li> <li>Browsing; Visualisation therefor</li> <li>Clustering; Classification <u>WARNING</u> Group <u>G06F 16/55</u> is incomplete pending reclassification of documents from group <u>G06F 16/50</u>. Groups <u>G06F 16/50</u> and <u>G06F 16/55</u> should be considered in order to</li> </ul>
Ν	G06F 16/55	<ul> <li>from group <u>G06F 16/50</u>. Groups <u>G06F 16/50</u> and <u>G06F 16/538</u> should be considered in order to perform a complete search.</li> <li>Browsing; Visualisation therefor</li> <li>Clustering; Classification <u>WARNING</u> Group <u>G06F 16/55</u> is incomplete pending reclassification of documents from group <u>G06F 16/50</u>. Groups <u>G06F 16/50</u> and <u>G06F 16/55</u> should be considered in order to perform a complete search.</li> </ul>
N N	G06F 16/55 G06F 16/56	<ul> <li>from group <u>G06F 16/50</u>. Groups <u>G06F 16/50</u> and <u>G06F 16/538</u> should be considered in order to perform a complete search.</li> <li>Browsing; Visualisation therefor</li> <li>Clustering; Classification <u>WARNING</u> Group <u>G06F 16/55</u> is incomplete pending reclassification of documents from group <u>G06F 16/50</u>. Groups <u>G06F 16/50</u> and <u>G06F 16/55</u> should be considered in order to perform a complete search.</li> <li>having vectorial format</li> <li>Retrieval characterised by using metadata, e.g. metadata not derived from</li> </ul>
N N	G06F 16/55 G06F 16/56	<ul> <li>from group <u>G06F 16/50</u>. Groups <u>G06F 16/50</u> and <u>G06F 16/538</u> should be considered in order to perform a complete search.</li> <li>Browsing; Visualisation therefor</li> <li>Clustering; Classification <u>WARNING</u> Group <u>G06F 16/55</u> is incomplete pending reclassification of documents from group <u>G06F 16/50</u>. Groups <u>G06F 16/50</u> and <u>G06F 16/55</u> should be considered in order to perform a complete search.</li> <li>having vectorial format</li> <li>Retrieval characterised by using metadata, e.g. metadata not derived from the content or metadata generated manually</li> </ul>

Q	G06F 16/5838	•••• {using colour}
		WARNING
		Group <u>G06F 16/5838</u> is impacted by reclassification into groups
		<u>G06F 16/5846</u> , <u>G06F 16/5854</u> , and <u>G06F 16/5862</u> . All groups listed in this Warning should be considered in order to perform
		a complete search.
Ν	G06F 16/5846	· · · {using extracted text}
		WARNING
		Group <u>G06F 16/5846</u> is incomplete pending reclassification of documents from group <u>G06F 16/5838</u> .
		Groups G06F 16/5838 and G06F 16/5846 should be considered in order
		to perform a complete search.
Ν	G06F 16/5854	•••• {using shape and object relationship}
		WARNING
		Group <u>G06F 16/5854</u> is incomplete pending reclassification of documents from group <u>G06F 16/5838</u> .
		Groups <u>G06F 16/5838</u> and <u>G06F 16/5854</u> should be considered in order
		to perform a complete search.
Ν	G06F 16/5862	•••• {using texture}
		WARNING
		Group <u>G06F 16/5862</u> is incomplete pending reclassification of documents from group <u>G06F 16/5838</u> .
		Groups <u>G06F 16/5838</u> and <u>G06F 16/5862</u> should be considered in order
		to perform a complete search.
Q	G06F 16/5866	<ul> <li>• {using information manually generated, e.g. tags, keywords, comments, manually generated location and time information}</li> </ul>
		WARNING
		Group G06F 16/5866 is impacted by reclassification into group
		<u>G06F 16/587</u> .
		Groups <u>G06F 16/5866</u> and <u>G06F 16/587</u> should be considered in order to perform a complete search.
		penonn a complete search.
Ν	G06F 16/587	• • • using geographical or spatial information, e.g. location
		WARNING
		Group <u>G06F 16/587</u> is incomplete pending reclassification of documents from groups G06F 16/58 and G06F 16/5866.
		Groups <u>G06F 16/58</u> , <u>G06F 16/5866</u> , and <u>G06F 16/587</u> should be
		considered in order to perform a complete search.
Q	G06F 16/60	of audio data
		<u>NOTE</u>
		In groups <u>G06F 16/60</u> , <u>G06F 16/61</u> , <u>G06F 16/63</u> , <u>G06F 16/632</u> , <u>G06F 16/634</u> , <u>G06F 16/635</u> , <u>G06F 16/636</u> , <u>G06F 16/637</u> , <u>G06F 16/638</u> ,
		<u>G06F 16/639</u> , <u>G06F 16/64</u> , and <u>G06F 16/65</u> , subject matter relevant to
		retrieval characterised by using metadata, when it is determined to be novel
		and non-obvious, must also be classified in groups <u>G06F 16/68</u> , <u>G06F 16/683</u> , <u>G06F 16/685</u> , <u>G06F 16/686</u> and <u>G06F 16/687</u> .
		WARNING
		Group <u>G06F 16/60</u> is impacted by reclassification into groups <u>G06F 16/63</u> and
		G06F 16/65.

		Groups <u>G06F 16/60</u> , <u>G06F 16/63</u> , and <u>G06F 16/65</u> should be considered in order to perform a complete search.
Ν	G06F 16/61	<ul> <li>Indexing; Data structures therefor; Storage structures</li> </ul>
Ν	G06F 16/63	• • Querying
		WARNING
		Group G06F 16/63 is incomplete pending reclassification of documents from
		group <u>G06F 16/60</u> .
		Groups <u>G06F 16/60</u> and <u>G06F 16/63</u> should be considered in order to perform a complete search.
Ν	G06F 16/632	• • Query formulation
Ν	G06F 16/634	•••• {Query by example, e.g. query by humming}
Ν	G06F 16/635	<ul> <li>Filtering based on additional data, e.g. user or group profiles</li> </ul>
Ν	G06F 16/636	• • • {by using biological or physiological data}
Ν	G06F 16/637	<ul> <li>• • • {Administration of user profiles, e.g. generation, initialization, adaptation or distribution}</li> </ul>
Ν	G06F 16/638	Presentation of query results
Ν	G06F 16/639	•••• {using playlists}
Ν	G06F 16/64	<ul> <li>Browsing; Visualisation therefor (generation of a list or set of audio data <u>G06F 16/638</u>)</li> </ul>
Ν	G06F 16/65	Clustering; Classification
		WARNING
		Group <u>G06F 16/65</u> is incomplete pending reclassification of documents from
		group <u>G06F 16/60</u> . Groups <u>G06F 16/60</u> and <u>G06F 16/65</u> should be considered in order to
		perform a complete search.
Q	G06F 16/68	<ul> <li>Retrieval characterised by using metadata, e.g. metadata not derived from the content or metadata generated manually</li> </ul>
		WARNING
		Group <u>G06F 16/68</u> is impacted by reclassification into group <u>G06F 16/687</u> .
		Groups <u>G06F 16/68</u> and <u>G06F 16/687</u> should be considered in order to perform a complete search.
Ν	G06F 16/683	• • • using metadata automatically derived from the content
Ν	G06F 16/685	<ul> <li>• • {using automatically derived transcript of audio data, e.g. lyrics (speech recognition <u>G10L 15/00</u>)}</li> </ul>
Q	G06F 16/686	<ul> <li>• {using information manually generated, e.g. tags, keywords, comments, title or artist information, time, location or usage information, user ratings}</li> </ul>
		WARNING
		Group <u>G06F 16/686</u> is impacted by reclassification into group G06F 16/687.
		Groups G06F 16/686 and G06F 16/687 should be considered in order to
		perform a complete search.
Ν	G06F 16/687	• • • using geographical or spatial information, e.g. location
		WARNING
		Group <u>G06F 16/687</u> is incomplete pending reclassification of documents
		from groups <u>G06F 16/68</u> and <u>G06F 16/686</u> . Groups <u>G06F 16/68,  G06F 16/686</u> , and <u>G06F 16/687</u> should be
		considered in order to perform a complete search.

Q	G06F 16/70	of video data
		<u>NOTE</u>
		In groups <u>G06F 16/70</u> , <u>G06F 16/71</u> , <u>G06F 16/73</u> , <u>G06F 16/732</u> , <u>G06F 16/7328</u> , <u>G06F 16/7335</u> , <u>G06F 16/7343</u> , <u>G06F 16/735</u> , <u>G06F 16/738</u> , <u>G06F 16/739</u> , <u>G06F 16/74</u> , <u>G06F 16/743</u> , <u>G06F 16/745</u> , <u>G06F 16/78</u> and <u>G06F 16/75</u> , subject matter relevant to retrieval characterised by using metadata, when it is determined to be novel and non-obvious, must also be classified in groups <u>G06F 16/788</u> , <u>G06F 16/7833</u> , <u>G06F 16/7834</u> , <u>G06F 16/7837</u> , <u>G06F 16/784</u> , <u>G06F 16/7844</u> , <u>G06F 16/7847</u> , <u>G06F 16/7855</u> , <u>G06F 16/7854</u> , <u>G06F 16/7857</u> , <u>G06F 16/7864</u> , <u>G06F 16/7867</u> and <u>G06F 16/787</u> .
		<u>WARNING</u> Group <u>G06F 16/70</u> is impacted by reclassification into group <u>G06F 16/75</u> . Groups <u>G06F 16/70</u> and <u>G06F 16/75</u> should be considered in order to perform a complete search.
Ν	G06F 16/71	<ul> <li>Indexing; Data structures therefor; Storage structures</li> </ul>
Q	G06F 16/73	• • Querying
		WARNING
		Group <u>G06F 16/73</u> is impacted by reclassification into group <u>G06F 16/732</u> . Groups <u>G06F 16/73</u> and <u>G06F 16/732</u> should be considered in order to perform a complete search.
Ν	G06F 16/732	Query formulation
		<u>WARNING</u> Group <u>G06F 16/732</u> is incomplete pending reclassification of documents from group <u>G06F 16/73</u> . Groups <u>G06F 16/73</u> and <u>G06F 16/732</u> should be considered in order to perform a complete search.
Ν	G06F 16/7328	<ul> <li>• • {Query by example, e.g. a complete video frame or video sequence (graphical querying <u>G06F 16/7335</u>)}</li> </ul>
N	G06F 16/7335	<ul> <li>• • {Graphical querying, e.g. query-by-region, query-by-sketch, query- by-trajectory, GUIs for designating a person/face/object as a query predicate (end-user interface involving hot spots associated with the video <u>H04N 21/4725</u>; end-user interface for selecting a Region of Interest <u>H04N 21/4728</u>)}</li> </ul>
Ν	G06F 16/7343	•••• {Query language or query format}
Ν	G06F 16/735	<ul> <li>Filtering based on additional data, e.g. user or group profiles</li> </ul>
Ν	G06F 16/738	Presentation of query results
Ν	G06F 16/739	<ul> <li>• • {in form of a video summary, e.g. the video summary being a video sequence, a composite still image or having synthesized frames}</li> </ul>
Ν	G06F 16/74	<ul> <li>Browsing; Visualisation therefor (end-user interfaces for requesting or interacting with video content, e.g. video on demand interfaces or electronic program guides, <u>H04N 21/472</u>)</li> </ul>
Ν	G06F 16/743	<ul> <li>• {a collection of video files or sequences}</li> </ul>
Ν	G06F 16/745	<ul> <li>• {the internal structure of a single video sequence}</li> </ul>
Ν	G06F 16/748	<ul> <li>• {Hypervideo (linking data to content, e.g. by linking an URL to a video object in the context of video distribution systems <u>H04N 21/858</u>)}</li> </ul>

Ν	G06F 16/75	Clustering; Classification
		WARNING
		Group G06F 16/75 is incomplete pending reclassification of documents from
		group <u>G06F 16/70</u> . Groups <u>G06F 16/70</u> and <u>G06F 16/75</u> should be considered in order to perform a complete search.
Q	G06F 16/78	<ul> <li>Retrieval characterised by using metadata, e.g. metadata not derived from the content or metadata generated manually</li> </ul>
		<u>WARNING</u> Group <u>G06F 16/78</u> is impacted by reclassification into group <u>G06F 16/787</u> . Groups <u>G06F 16/78</u> and <u>G06F 16/787</u> should be considered in order to perform a complete search.
Ν	G06F 16/783	• • • using metadata automatically derived from the content
Ν	G06F 16/7834	• • • {using audio features}
Ν	G06F 16/7837	• • • • {using objects detected or recognised in the video content}
Ν	G06F 16/784	• • • • {the detected or recognised objects being people}
Ν	G06F 16/7844	<ul> <li>• • {using original textual content or text extracted from visual content or transcript of audio data}</li> </ul>
Ν	G06F 16/7847	• • • • {using low-level visual features of the video content}
Ν	G06F 16/785	•••• {using colour or luminescence}
Ν	G06F 16/7854	••••• {using shape ( <u>G06F 16/7837</u> takes precedence)}
Ν	G06F 16/7857	••••• {using texture ( <u>G06F 16/7837</u> takes precedence)}
Ν	G06F 16/786	••••• {using motion, e.g. object motion or camera motion}
Ν	G06F 16/7864	<ul> <li>••• {using domain-transform features, e.g. DCT or wavelet transform coefficients}</li> </ul>
Q	G06F 16/7867	<ul> <li>• {using information manually generated, e.g. tags, keywords, comments, title and artist information, manually generated time, location and usage information, user ratings}</li> </ul>
		WARNING
		Group <u>G06F 16/7867</u> is impacted by reclassification into group <u>G06F 16/787</u> .
		Groups <u>G06F 16/7867</u> and <u>G06F 16/787</u> should be considered in order to perform a complete search.
Ν	G06F 16/787	• • • using geographical or spatial information, e.g. location
		WARNING
		Group <u>G06F 16/787</u> is incomplete pending reclassification of documents from groups <u>G06F 16/78</u> and <u>G06F 16/7867</u> . Groups <u>G06F 16/78</u> , <u>G06F 16/7867</u> , and <u>G06F 16/787</u> should be considered in order to perform a complete search.
Ν	G06F 16/80	<ul> <li>of semi-structured data, e.g. markup language structured data such as SGML, XML or HTML (content-based retrieval of web data <u>G06F 16/95</u>)</li> </ul>
Ν	G06F 16/81	<ul> <li>Indexing, e.g. XML tags; Data structures therefor; Storage structures</li> </ul>
		WARNING
		Group <u>G06F 16/81</u> is incomplete pending reclassification of documents from group <u>G06F 16/83</u> .
		Groups <u>G06F 16/83</u> and <u>G06F 16/81</u> should be considered in order to perform a complete search.

Q	G06F 16/83	• • Querying
		WARNING
		Group <u>G06F 16/83</u> is impacted by reclassification into groups <u>G06F 16/81</u>
		and <u>G06F 16/835</u> . Groups <u>G06F 16/83</u> , <u>G06F 16/81</u> , and <u>G06F 16/835</u> should be considered in
		order to perform a complete search.
Ν	G06F 16/832	• • • Query formulation
Ν	G06F 16/835	• • • Query processing
		WARNING
		Group <u>G06F 16/835</u> is incomplete pending reclassification of documents
		from group <u>G06F 16/83</u> . Groups <u>G06F 16/83</u> and <u>G06F 16/835</u> should be considered in order to
		perform a complete search.
N	G06F 16/8358	••••{Query translation}
Ν	G06F 16/8365	• • • • {Query optimisation}
Ν	G06F 16/8373	• • • • {Query execution}
Ν	G06F 16/838	• • • Presentation of query results
Ν	G06F 16/84	Mapping; Conversion
Ν	G06F 16/86	• • • {Mapping to a database}
Ν	G06F 16/88	<ul> <li>• • {Mark-up to mark-up conversion (conversion for visualization in web browsing <u>G06F 16/9577</u>)}</li> </ul>
Q	G06F 16/90	Details of database functions independent of the retrieved data types
~		NOTE
		In groups <u>G06F 16/90, G06F 16/901, G06F 16/9014, G06F 16/9017,</u>
		<u>G06F 16/902, G06F 16/9024, G06F 16/9027, G06F 16/903, G06F 16/9032,</u>
		<u>G06F 16/90324, G06F 16/90328, G06F 16/90332, G06F 16/90335,</u>
		<u>G06F 16/90339</u> , <u>G06F 16/90344</u> , <u>G06F 16/90348</u> , <u>G06F 16/9035</u> , <u>G06F 16/9038</u> , <u>G06F 16/904</u> , and <u>G06F 16/906</u> , subject matter relevant
		to retrieval characterised by using metadata, when it is determined to be
		novel and non-obvious, must also be classified in groups <u>G06F 16/907</u> ,
		<u>G06F 16/907</u> , and <u>G06F 16/909</u> .
		WARNING
		Group <u>G06F 16/90</u> is impacted by reclassification into group <u>G06F 16/906</u> . Groups <u>G06F 16/90</u> and <u>G06F 16/906</u> should be considered in order to perform
		a complete search.
N	G06F 16/901	<ul> <li>Indexing; Data structures therefor; Storage structures (for retrieval from the</li> </ul>
11	G00F 10/901	web <u>G06F 16/951</u> )
Ν	G06F 16/9014	• • • {hash tables}
Ν	G06F 16/9017	• • {using directory or table look-up (use of a directory or look-up table in file
		systems G06F 16/13)}
Ν	G06F 16/902	<ul> <li>• • {using more than one table in sequence, i.e. systems with three or more layers}</li> </ul>
Ν	G06F 16/9024	<ul> <li>• • {Graphs; Linked lists (<u>G06F 16/9027</u> takes precedence)}</li> </ul>
Ν	G06F 16/9027	• • • {Trees}
Q	G06F 16/903	<ul> <li>Querying (for retrieval from the web <u>G06F 16/953</u>)</li> </ul>
		WARNING
		Group G06F 16/903 is impacted by reclassification into group G06F 16/9035.

		Groups <u>G06F 16/903</u> and <u>G06F 16/9035</u> should be considered in order to perform a complete search.
Ν	G06F 16/9032	• • • Query formulation
Ν	G06F 16/90324	• • • {using system suggestions}
Ν	G06F 16/90328	<ul> <li>•••• {using search space presentation or visualization, e.g. category or range presentation and selection}</li> </ul>
Ν	G06F 16/90332	•••• {Natural language query formulation or dialogue systems}
Ν	G06F 16/90335	• • • {Query processing}
Ν	G06F 16/90339	<ul> <li>• • {by using parallel associative memories or content-addressable memories}</li> </ul>
Ν	G06F 16/90344	<ul> <li>• • • {by using string matching techniques}</li> </ul>
Ν	G06F 16/90348	•••• {by searching ordered data, e.g. alpha-numerically ordered data}
Ν	G06F 16/9035	<ul> <li>Filtering based on additional data, e.g. user or group profiles         <u>WARNING</u>         Group <u>G06F 16/9035</u> is incomplete pending reclassification of documents         from group <u>G06F 16/903</u>.         Groups G06F 16/903 and G06F 16/9035 should be considered in order to</li> </ul>
		perform a complete search.
Ν	G06F 16/9038	Presentation of query results
Ν	G06F 16/904	<ul> <li>Browsing; Visualisation therefor (for navigating the web <u>G06F 16/954;</u> browsing optimisation for the web <u>G06F 16/957</u>)</li> </ul>
Ν	G06F 16/906	Clustering; Classification
		<u>WARNING</u> Group <u>G06F 16/906</u> is incomplete pending reclassification of documents from group <u>G06F 16/90</u> . Groups <u>G06F 16/90</u> and <u>G06F 16/906</u> should be considered in order to perform a complete search.
Q	G06F 16/907	<ul> <li>Retrieval characterised by using metadata, e.g. metadata not derived from the content or metadata generated manually <u>WARNING</u></li> </ul>
		Group <u>G06F 16/907</u> is impacted by reclassification into groups <u>G06F 16/908</u> and <u>G06F 16/909</u> . Groups <u>G06F 16/907</u> , <u>G06F 16/908</u> , and <u>G06F 16/909</u> should be considered in order to perform a complete search.
N	G06F 16/908	• • • using metadata automatically derived from the content
11	G00F 10/900	
		<u>WARNING</u> Group <u>G06F 16/908</u> is incomplete pending reclassification of documents from group <u>G06F 16/907</u> . Groups <u>G06F 16/907</u> and <u>G06F 16/908</u> should be considered in order to perform a complete search.
Ν	G06F 16/909	<ul> <li>using geographical or spatial information, e.g. location (spatiotemporally dependent retrieval from the web <u>G06F 16/9537</u>)</li> <li><u>WARNING</u></li> <li>Group <u>G06F 16/909</u> is incomplete pending reclassification of documents from group <u>G06F 16/907</u>.</li> </ul>
		Groups <u>G06F 16/907</u> and <u>G06F 16/909</u> should be considered in order to perform a complete search.

Ν	G06F 16/93	• Document management systems
Ν	G06F 16/94	• • • {Hypermedia (hyperlinking within text processing <u>G06F 17/2235</u> )}
Ν	G06F 16/95	Retrieval from the web
Q	G06F 16/951	• • Indexing; Web crawling techniques
		WARNING
		Group <u>G06F 16/951</u> is impacted by reclassification into groups <u>G06F 16/953</u> , <u>G06F 16/9532</u> and <u>G06F 16/9538</u> . All groups listed in this Warning should be considered in order to perform a complete search.
Ν	G06F 16/953	<ul> <li>Querying, e.g. by the use of web search engines</li> </ul>
		WARNING
		Group <u>G06F 16/953</u> is incomplete pending reclassification of documents from group <u>G06F 16/951</u> . Groups <u>G06F 16/951</u> and <u>G06F 16/953</u> should be considered in order to perform a complete search.
Ν	G06F 16/9532	• • • • Query formulation
		WARNING
		Group <u>G06F 16/9532</u> is incomplete pending reclassification of documents from group <u>G06F 16/951</u> . Groups <u>G06F 16/951</u> and <u>G06F 16/9532</u> should be considered in order to perform a complete search.
Q	G06F 16/9535	•••• Search customisation based on user profiles and personalisation
		WARNING
		Group <u>G06F 16/9535</u> is impacted by reclassification into groups <u>G06F 16/9536</u> and <u>G06F 16/9538</u> . Groups <u>G06F 16/9535</u> , <u>G06F 16/9536</u> , and <u>G06F 16/9538</u> should be considered in order to perform a complete search.
Ν	G06F 16/9536	•••• Search customisation based on social or collaborative filtering
		WARNING
		Group <u>G06F 16/9536</u> is incomplete pending reclassification of documents from group <u>G06F 16/9535</u> .
		Groups <u>G06F 16/9535</u> and <u>G06F 16/9536</u> should be considered in order
		to perform a complete search.
Ν	G06F 16/9537	•••• Spatial or temporal dependent retrieval, e.g. spatiotemporal queries
Ν	G06F 16/9538	• • • • Presentation of query results
		WARNING
		Group <u>G06F 16/9538</u> is incomplete pending reclassification of documents from groups <u>G06F 16/951</u> and <u>G06F 16/9535</u> . Groups <u>G06F 16/951</u> , <u>G06F 16/9535</u> , and <u>G06F 16/9538</u> should be considered in order to perform a complete search.
Ν	G06F 16/954	Avigation, e.g. using categorised browsing
Ν	G06F 16/955	• • • using information identifiers, e.g. uniform resource locators [URL]
Ν	G06F 16/9554	• • • • {by using bar codes}
Ν	G06F 16/9558	• • • • {Details of hyperlinks; Management of linked annotations}
Ν	G06F 16/9562	• • • • {Bookmark management}
Ν	G06F 16/9566	•••• {URL specific, e.g. using aliases, detecting broken or misspelled links}

Ν	G06F 16/957	<ul> <li>Browsing optimisation, e.g. caching or content distillation</li> </ul>
Ν	G06F 16/9574	• • • {of access to content, e.g. by caching}
Ν	G06F 16/9577	<ul> <li>• • {Optimising the visualization of content, e.g. distillation of HTML documents}</li> </ul>
Ν	G06F 16/958	<ul> <li>Organisation or management of web site content, e.g. publishing, maintaining pages or automatic linking</li> </ul>
Ν	G06F 16/972	<ul> <li>• • {Access to data in other repository systems, e.g. legacy data or dynamic Web page generation}</li> </ul>
Ν	G06F 16/986	•••• {Document structures and storage, e.g. HTML extensions}
М	G06F 17/00	Digital computing or data processing equipment or methods, specially adapted for specific functions ( <i>information retrieval, database structures or</i> file system structures therefor G06F 16/00)
U	G06F 17/20	Handling natural language data (speech analysis or synthesis G10L)
U	G06F 17/21	<ul> <li>Text processing (<u>G06F 17/27</u>, <u>G06F 17/28</u> take precedence; systems for composing machines <u>B41B 27/00</u>)</li> </ul>
U	G06F 17/22	<ul> <li>Manipulating or registering by use of codes, e.g. in sequence of text characters {(compression H03M 7/30)}</li> </ul>
	G06F 17/2235	<ul> <li>• • • {Hyperlinking (information retrieval based on hyperlinks G06F 17/30014G06F 16/94)}</li> </ul>
	G06F 17/2247	<ul> <li>• • {Tree structured documents; Markup, e.g. Standard Generalized Markup Language [SGML], Document Type Definition [DTD] (validation and parsing <u>G06F 17/2705</u>; data retrieval <u>G06F 17/30G06F 16/00</u>; coding and compression <u>H03M 7/30</u>)}</li> </ul>
U	G06F 17/24	• • Editing, e.g. insert/delete {(G06F 17/22 takes precedence)}
	G06F 17/246	<ul> <li>• • {Spreadsheets (relational data bases G06F 17/30595G06F 16/284; form- filling G06F 17/243)}</li> </ul>
U	G06F 17/28	Processing or translating of natural language (G06F 17/27 takes precedence)
	G06F 17/289	<ul> <li>• • {Use of machine translation, e.g. multi-lingual retrieval, server side translation for client devices, real-time translation (data retrieval <u>G06F 17/30G06F 16/00</u>, administrative and business methods <u>G06Q 10/00</u>, <u>G06Q 30/00</u>)}</li> </ul>
D	G06F 17/30	<ul> <li>Information retrieval; Database structures therefor {; File system structures</li> </ul>
		therefor (data processing systems or methods specially adapted for administrative, commercial, financial managerial, supervisory or forecasting purposes G06Q)} <administratively <u="" to="" transferred="">G06F 16/00&gt;</administratively>
D	G06F 17/30002	<ul> <li>{Interfaces; Database management systems; Updating} <administratively <u="" to="" transferred="">G06F 16/23&gt;</administratively></li> </ul>
D	G06F 17/30005	<ul> <li>• • {File format conversion (code conversion circuits or methods H03M 5/00, H03M 7/00)}</li> <li><administratively 16="" 1794="" g06f="" to="" transferred=""></administratively></li> </ul>
D	G06F 17/30008	<ul> <li>+ {Concurrency control and recovery (G06F 11/1402 takes precedence; transaction processing G06F 9/466)}</li> <li><administratively 16="" 2308="" g06f="" to="" transferred=""></administratively></li> </ul>
D	G06F 17/30011	<ul> <li>{Document retrieval systems}</li> <li><administratively 16="" 93="" g06f="" to="" transferred=""></administratively></li> </ul>
D	G06F 17/30014	<ul> <li>+ {Hypermedia (hyperlinking within text processing G06F 17/2235)} <administratively 16="" 94="" g06f="" to="" transferred=""></administratively></li> </ul>

D	G06F 17/30017	<ul> <li>{Multimedia data retrieval; Retrieval of more than one type of audiovisual media (retrieval of image data G06F 17/30244; retrieval of video data G06F 17/30781; retrieval of audio data G06F 17/3074; editing or indexing of data stored based on relative movement between record carrier and transducer G11B 27/00)}</li> <li><administratively 16="" 40="" g06f="" to="" transferred=""></administratively></li> </ul>
D	G06F 17/3002	<ul> <li>• {Indexing (indexing by using information signals detectable on the record carrier and recorded by the same method as the main recording G11B 27/28)}</li> <li><administratively 16="" 41<="" g06f="" li="" to="" transferred=""> </administratively></li></ul>
D	G06F 17/30023	<ul> <li>• • {Querying (programmed access in sequence to addressed parts of tracks of operating discs G11B 27/105)}</li> <li><administratively 16="" 43="" g06f="" to="" transferred=""></administratively></li> </ul>
D	G06F 17/30026	<ul> <li> <ul> <li>{using audio data (details of audio retrieval G06F 17/3074; general determination or detection of speech characteristics G10L 25/00; speech recognition G10L 15/00; speaker recognition G10L 17/00; electrophonic musical instruments G10H)}</li> <li><administratively 16="" 433="" g06f="" to="" transferred=""></administratively></li> </ul> </li> </ul>
D	G06F 17/30029	<ul> <li>+ + + + + + + + + + + + + + + + + + +</li></ul>
D	G06F 17/30032	<ul> <li>+ + {using biological or physiological data of a human being, e.g. blood pressure, facial expression, gestures}</li> <li><administratively 16="" 436="" g06f="" to="" transferred=""></administratively></li> </ul>
D	G06F 17/30035	<ul> <li> {Administration of user profiles, e.g. generation, initialisation, adaptation, distribution}</li> <li><administratively 16="" 437="" g06f="" to="" transferred=""></administratively></li> </ul>
D	G06F 17/30038	<ul> <li> <ul> <li></li></ul></li></ul>
D	G06F 17/30041	· · · · {using location information} <administratively 16="" 487="" g06f="" to="" transferred=""></administratively>
D	G06F 17/30044	<ul> <li>+ + + + + + + + + + + + + + + + + + +</li></ul>
D	G06F 17/30047	<ul> <li>+ + {using image data, e.g. images, photos, pictures taken by a user}</li> <li><administratively 16="" 434="" g06f="" to="" transferred=""></administratively></li> </ul>
D	G06F 17/3005	<ul> <li>              {Presentation of query results (menu, index or table of content presentation of record carriers G11B 27/32, G11B 27/34)} <administratively 16="" 438="" g06f="" to="" transferred=""> </administratively></li> </ul>
D	G06F 17/30053	<ul> <li>+ + + + + + + + + + + + + + + + + + +</li></ul>
D	G06F 17/30056	<ul> <li>+ + + + + + + + + + + + + + + + + + +</li></ul>
D	G06F 17/30058	<ul> <li>• • {Retrieval by browsing and visualisation of multimedia data (trick modes G11B 27/005; browsing through video recorded on operating discs G11B 27/105)}</li> <li><administratively 16="" 44="" g06f="" to="" transferred=""></administratively></li> </ul>
D	G06F 17/30061	<ul> <li>• • {Spatial browsing, e.g. 2D maps, 3D or virtual spaces (interaction with 3D GUI environments in general G06F 3/04815)}</li> <li><administratively 16="" 444="" g06f="" to="" transferred=""></administratively></li> </ul>
D	G06F 17/30064	<ul> <li> <ul> <li></li></ul></li></ul>

D	G06F 17/30067	<ul> <li>{File systems; File servers (G06F 17/3061, G06F 17/30017, G06F 17/30244, G06F 17/3074, G06F 17/30781 take precedence; dedicated interfaces to storage systems G06F 3/0601; error detection, correction or monitoring G06F 11/00)}</li> <li><administratively 10="" 16="" g06f="" to="" transferred=""></administratively></li> </ul>
D	G06F 17/3007	<ul> <li>+ {File system administration (file or folder operations G06F 17/30115)}</li> <li><administratively 11<="" 16="" a="" g06f="" to="" transferred=""></administratively></li> </ul>
D	G06F 17/30073	<ul> <li>         • • • {Details of archiving (details of hierarchical storage management [HSM] systems G06F 17/30221; lifecycle management in storage systems G06F 3/0649; backup systems G06F 11/1446)} <administratively 113="" 16="" g06f="" to="" transferred=""> </administratively></li> </ul>
D	G06F 17/30076	<ul> <li>         • • • {Details of conversion of file system types or formats (management of the data involved in backup or backup restore G06F 11/1448)}     </li> <li>         cadministratively transferred to G06F 16/116     </li> </ul>
D	G06F 17/30079	<ul> <li> <ul> <li></li></ul></li></ul>
D	G06F 17/30082	<ul> <li> <ul> <li></li></ul></li></ul>
D	G06F 17/30085	<ul> <li>         • • •          •          {characterised by the use of retention policies (retention policies for         HSM systems G06F 17/30221)}          <administratively 125="" 16="" g06f="" to="" transferred=""> </administratively></li> </ul>
D	G06F 17/30088	<ul> <li>         • • {Details of file system snapshots on the file-level, e.g. snapshot creation, administration, deletion (use of snapshots for error detection or correction G06F 11/14, G06F 11/16)}     </li> <li>         cadministratively transferred to G06F 16/128&gt;     </li> </ul>
D	G06F 17/30091	<ul> <li>• {File storage and access structures (management of files in storage systems G06F 3/0643)}</li> <li><administratively 13="" 16="" g06f="" to="" transferred=""></administratively></li> </ul>
D	G06F 17/30094	<ul> <li> <ul> <li></li></ul></li></ul>
D	G06F 17/30097	<ul> <li>+ + {Hash-based (content-based indexing of textual data G06F 17/30613)}</li> <li>&lt; administratively transferred to G06F 16/137&gt;</li> </ul>
D	G06F 17/301	<ul> <li>• • {Details of searching files based on file metadata} <administratively 14="" 16="" g06f="" to="" transferred=""></administratively></li> </ul>
D	G06F 17/30103	<ul> <li> {Query formulation}</li> <li><administratively 144="" 16="" g06f="" to="" transferred=""></administratively></li> </ul>
D	G06F 17/30106	<ul> <li> <ul> <li></li></ul></li></ul>
D	G06F 17/30109	<ul> <li>· · · · {using file content signatures, e.g. hash values}</li> <li><administratively 152="" 16="" g06f="" to="" transferred=""></administratively></li> </ul>
D	G06F 17/30112	<ul> <li> {Query results presentation}</li> <li><administratively 156="" 16="" g06f="" to="" transferred=""></administratively></li> </ul>
D	G06F 17/30115	<ul> <li>+ {File and folder operations} <administratively 16="" 16<="" g06f="" li="" to="" transferred=""> </administratively></li></ul>
D	G06F 17/30117	<ul> <li>         • • • {Delete operations (erasing in storage systems G06F 3/0652)}         <administratively 16="" 162="" g06f="" to="" transferred=""> </administratively></li> </ul>
D	G06F 17/3012	<ul> <li> <ul> <li></li></ul></li></ul>

D	G06F 17/30123	<ul> <li> <ul> <li>File name conversion (management of the data involved in backup or backup restore G06F 11/1448)}</li> <li> <administratively 16="" 166="" <="" g06f="" li="" to="" transferred=""> </administratively></li></ul> </li> </ul>
D	G06F 17/30126	<ul> <li>         • • {Details of user interfaces specifically adapted to file systems, e.g. browsing and visualisation, 2d or 3d GUIs (query results presentation G06F 17/30112; interaction techniques for graphical user interfaces G06F 3/048)}     <administratively 16="" 168<="" g06f="" p="" to="" transferred=""> </administratively></li> </ul>
D	G06F 17/30129	<ul> <li> <ul> <li></li></ul></li></ul>
D	G06F 17/30132	<ul> <li>         • • {Caching or prefetching or hoarding of files (caching for data retrieval from the Internet G06F 17/30902; caching for peripheral storage systems, e.g. disk cache G06F 12/0866; network-specific arrangements or communication protocols for caching H04L 67/2842)} <administratively 16="" 172="" g06f="" to="" transferred=""> </administratively></li></ul>
D	G06F 17/30135	<ul> <li>         • • {Details of de-fragmentation performed by the file system (management of blocks in storage devices G06F 3/064; saving storage space on storage systems G06F 3/0608)}     </li> <li> <administratively 16="" 1724<="" g06f="" p="" to="" transferred=""> </administratively></li> </ul>
D	G06F 17/30138	<ul> <li>         • • {Details of free space management performed by the file system         (management of blocks in storage devices G06F 3/064; saving storage         space on storage systems G06F 3/0608)}         <administratively 16="" 1727="" g06f="" to="" transferred=""> </administratively></li> </ul>
D	G06F 17/30141	<ul> <li> <ul> <li></li></ul></li></ul>
D	G06F 17/30144	<ul> <li> <ul> <li></li></ul></li></ul>
D	G06F 17/30147	<ul> <li>••• {for reducing power consumption or coping with limited storage space, e.g. in mobile devices (saving storage space on storage devices G06F 3/0608; power saving in storage systems G06F 3/0625)}</li> <li><administratively 16="" 1737="" g06f="" to="" transferred=""></administratively></li> </ul>
D	G06F 17/3015	<ul> <li>         • • {Redundancy elimination performed by the file system (management of the data involved in backup or backup restore using de-duplication of the data G06F 11/1453)} <administratively 16="" 174="" g06f="" to="" transferred=""> </administratively></li> </ul>
D	G06F 17/30153	<ul> <li>+ + + + + + + + + + + + + + + + + + +</li></ul>
D	G06F 17/30156	<ul> <li>         • • • {De-duplication implemented within the file system, e.g. based on file segments (de-duplication techniques in storage systems for the management of data blocks G06F 3/0641)} <administratively 16="" 1748="" g06f="" to="" transferred=""> </administratively></li> </ul>
D	G06F 17/30159	
D	G06F 17/30162	• • • • • <del>{based on delta files}</del> <administratively <u="" to="" transferred="">G06F 16/1756&gt;</administratively>
D	G06F 17/30165	<ul> <li> <ul> <li>Support for shared access to files, file-sharing support}</li> <li>administratively transferred to G06F 16/176</li> </ul> </li> </ul>
D	G06F 17/30168	•••• {Concurrency control, e.g. optimistic or pessimistic approaches} <administratively 16="" 1767="" g06f="" to="" transferred=""> </administratively>

D	G06F 17/30171	<ul> <li>         • • • • {Locking methods, e.g. locking methods for file systems allowing shared and concurrent access to files} <administratively 16="" 1774="" g06f="" to="" transferred=""> </administratively></li> </ul>
D	G06F 17/30174	<ul> <li> {Techniques for file synchronisation in file systems (change detection G06F 17/30144; file management policies in general G06F 17/30082; distributed file systems G06F 17/30194; synchronisation of structured data G06F 17/30575; protocols for data synchronisation between network nodes H04L 67/1095)}</li> <li><administratively 16="" 178="" g06f="" to="" transferred=""></administratively></li> </ul>
D	G06F 17/30176	<ul> <li> {Details of non-transparently synchronising file systems}</li> <li><administratively 16="" 1787="" g06f="" to="" transferred=""></administratively></li> </ul>
D	G06F 17/30179	· · · · { <del>Details of file format conversion}</del> <administratively 16="" 1794="" <="" g06f="" td="" to="" transferred=""></administratively>
D	G06F 17/30182	<ul> <li>+ {File system types}</li> <li><administratively 16="" 18<="" g06f="" li="" to="" transferred=""> </administratively></li></ul>
D	G06F 17/30185	<ul> <li>• • • {Append-only file systems, e.g. using logs or journals to store data}</li> <li><administratively 16="" 1805="" g06f="" to="" transferred=""></administratively></li> </ul>
D	G06F 17/30188	<ul> <li> {providing write once read many [WORM] semantics}</li> <li><administratively 16="" 181<="" g06f="" li="" to="" transferred=""> </administratively></li></ul>
D	G06F 17/30191	· · · · { <del>Journaling file systems}           <administratively 16="" 1815<="" g06f="" td="" to="" transferred=""> </administratively></del>
D	G06F 17/30194	
D	G06F 17/30197	<ul> <li>•••• {implemented using NAS architecture (distributed or networked storage systems G06F 3/067; protocols for distributed storage of data in a network H04L 67/1097)}</li> <li><administratively 16="" 1824="" g06f="" to="" transferred=""></administratively></li> </ul>
D	G06F 17/302	· · · · · {Details of management specifically adapted to network area storage     [NAS] (management of NAS or SAN G06F 3/067)} <administratively 16="" 1827="" g06f="" to="" transferred=""></administratively>
D	G06F 17/30203	<ul> <li>         • • • • {Details of providing network file services by network file servers, e.g. by using NFS, CIFS (network file access protocols H04L 67/1097)} <administratively 16="" 183="" g06f="" to="" transferred=""> </administratively></li> </ul>
D	G06F 17/30206	<ul> <li> <ul> <li></li></ul></li></ul>
D	G06F 17/30209	· · · · · {Details of management specifically adapted to peer-to-peer storage networks (topology management mechanisms of peer-to-peer networks H04L 67/1042)} <administratively 16="" 1837="" g06f="" to="" transferred=""></administratively>
D	G06F 17/30212	
D	G06F 17/30215	<ul> <li>         • • • • {Details of management specifically adapted to replicated file         systems}         <administratively 16="" 1844="" g06f="" to="" transferred=""> </administratively></li> </ul>
D	G06F 17/30218	<ul> <li>• • {specifically adapted to static storage, e.g. adapted to flash memory, SSD (dedicated interfaces to non-volatile semiconductor memory device G06F 3/0679; dedicated interfaces to non-volatile semiconductor memory arrays G06F 3/0688)}</li> <li><administratively 16="" 1847="" g06f="" to="" transferred=""></administratively></li> </ul>

D	G06F 17/30221	<ul> <li>         • • {Details of hierarchical storage management [HSM] systems, e.g. file migration and policies thereof (details of archiving G06F 17/30073; life cycle management G06F 3/0649; hybrid storage combining heterogeneous device types G06F 3/0685)} <administratively 16="" 185<="" g06f="" p="" to="" transferred=""> </administratively></li> </ul>
D	G06F 17/30224	<ul> <li>         • • {Parallel file systems, i.e. file systems supporting multiple processors} <administratively <u="" to="" transferred="">G06F 16/1858&gt;      </administratively></li> </ul>
D	G06F 17/30227	<ul> <li>         • • {Transactional file systems (commit processing in structured data stores G06F 17/30377)}     </li> <li>         cadministratively transferred to G06F 16/1865     </li> </ul>
D	G06F 17/3023	<ul> <li>• • {Versioning file systems, temporal file systems, e.g. file system supporting different historic versions of, e.g. files}</li> <li><administratively 16="" 1873="" g06f="" to="" transferred=""></administratively></li> </ul>
D	G06F 17/30233	<ul> <li>• • {Virtual file systems}</li> <li><administratively 16="" 188<="" g06f="" li="" to="" transferred=""> </administratively></li></ul>
D	G06F 17/30235	· · · · {Implementing virtual folder structures} <administratively 16="" 192="" g06f="" to="" transferred=""></administratively>
D	G06F 17/30238	<ul> <li>••• {Specific adaptations of the file system to access devices and non-file objects via standard file system access operations, e.g. pseudo file systems (dedicated interfaces to storage systems G06F 3/0601)}</li> <li><administratively 16="" 196="" g06f="" to="" transferred=""></administratively></li> </ul>
D	G06F 17/30241	<ul> <li>- {in geographical information databases (instruments for geographical navigation G01C 21/00; three dimensional geographic models G06T 17/05)} <administratively 16="" 29="" g06f="" to="" transferred=""></administratively></li> </ul>
D	G06F 17/30244	<ul> <li>- {in image databases}</li> <li><administratively 16="" 50="" g06f="" to="" transferred=""></administratively></li> </ul>
D	G06F 17/30247	<ul> <li>+ {based on features automatically derived from the image data (pattern recognition G06K 9/00)}</li> <li><administratively 16="" 583="" g06f="" to="" transferred=""></administratively></li> </ul>
D	G06F 17/3025	<ul> <li>+ + {using colour} <administratively 16="" 5838<="" g06f="" li="" to="" transferred=""> </administratively></li></ul>
D	G06F 17/30253	•••• {using extracted text} <administratively 16="" 5846="" g06f="" to="" transferred=""></administratively>
D	G06F 17/30256	<ul> <li>+ + {using a combination of image content features}</li> <li><administratively 16="" 5838<="" g06f="" li="" to="" transferred=""> </administratively></li></ul>
D	G06F 17/30259	<ul> <li>+ + {using shape and object relationship} <administratively 16="" 5854<="" g06f="" li="" to="" transferred=""> </administratively></li></ul>
D	G06F 17/30262	{using texture} <administratively 16="" 5862="" g06f="" to="" transferred=""></administratively>
D	G06F 17/30265	<ul> <li>+ {based on information manually generated or based on information not derived from the image data}</li> <li><administratively 16="" 58="" g06f="" to="" transferred=""></administratively></li> </ul>
D	G06F 17/30268	<ul> <li>• • {using information manually generated, e.g. tags, keywords, comments, manually generated location and time information}</li> <li><administratively 16="" 5866<="" g06f="" li="" to="" transferred=""> </administratively></li></ul>
D	G06F 17/30271	<ul> <li>+ {the images having vectorial formats} <administratively <u="" to="" transferred="">G06F 16/56&gt;</administratively></li> </ul>
D	G06F 17/30274	<ul> <li>+ {by browsing} <administratively 16="" 54="" g06f="" to="" transferred=""></administratively></li> </ul>
D	G06F 17/30277	<ul> <li>+ {by graphical querying} <administratively 16="" 532="" g06f="" to="" transferred=""></administratively></li> </ul>

D	G06F 17/3028	<ul> <li>• + {data organisation and access thereof} <administratively 16="" 51="" g06f="" to="" transferred=""></administratively></li> </ul>
D	G06F 17/30283	<ul> <li>{using distributed data base systems, e.g. networks} <administratively 16="" 27<="" g06f="" li="" to="" transferred=""> </administratively></li></ul>
D	G06F 17/30286	<ul> <li>- {in structured data stores} <administratively 16="" 20="" g06f="" to="" transferred=""></administratively></li> </ul>
D	G06F 17/30289	<ul> <li> <ul> <li></li></ul></li></ul>
D	G06F 17/30292	<ul> <li> <ul> <li></li></ul></li></ul>
D	G06F 17/30294	
D	G06F 17/30297	
D	G06F 17/303	• • • <del>(Database migration support)</del> <administratively <u="" to="" transferred="">G06F 16/214&gt;</administratively>
D	G06F 17/30303	<ul> <li>• • • {Improving data quality; Data cleansing}</li> <li><administratively 16="" 215="" g06f="" to="" transferred=""></administratively></li> </ul>
D	G06F 17/30306	<ul> <li> <ul> <li></li></ul></li></ul>
D	G06F 17/30309	<ul> <li> {Managing data history or versioning (querying temporal data G06F 17/30551; querying versioned data G06F 17/30548)}</li> <li><administratively 16="" 219="" g06f="" to="" transferred=""></administratively></li> </ul>
D	G06F 17/30312	<ul> <li>+ {Storage and indexing structures; Management thereof} <administratively 16="" 22="" g06f="" to="" transferred=""></administratively></li> </ul>
D	G06F 17/30315	<ul> <li> <ul> <li>Column-oriented storage; Management thereof}</li> </ul> </li> <li> <ul> <li>cadministratively transferred to G06F 16/221&gt;         </li> </ul> </li></ul>
D	G06F 17/30318	<ul> <li>         • • {Details of Large Object storage; Management thereof} <administratively <u="" to="" transferred="">G06F 16/2219&gt;      </administratively></li> </ul>
D	G06F 17/30321	<ul> <li> {Indexing structures (indexing structures for unstructured textual data G06F 17/30619)}</li> <li><administratively 16="" 2228="" g06f="" to="" transferred=""></administratively></li> </ul>
D	G06F 17/30324	
D	G06F 17/30327	
D	G06F 17/3033	
D	G06F 17/30333	
D	G06F 17/30336	•••• {indexing structure managing details} <administratively 16="" 2272="" g06f="" to="" transferred=""></administratively>
D	G06F 17/30339	<ul> <li> <ul> <li></li></ul></li></ul>
D	G06F 17/30342	<ul> <li>         • • {Details of User-Defined Types; Storage management thereof} <administratively <u="" to="" transferred="">G06F 16/2291&gt;      </administratively></li> </ul>
D	G06F 17/30345	<ul> <li>• • {Update requests}</li> <li><administratively 16="" 23="" g06f="" to="" transferred=""></administratively></li> </ul>
D	G06F 17/30348	• • • {Concurrency control (transaction processing G06F 9/466)}   cadministratively transferred to G06F 16/2308

D	G06F 17/30351	<ul> <li> {Optimistic concurrency control} <administratively 16="" 2315="" g06f="" to="" transferred=""></administratively></li> </ul>
D	G06F 17/30353	<ul> <li></li></ul>
D	G06F 17/30356	<ul> <li>· · · · · {using versioning}</li> <li><administratively 16="" 2329<="" g06f="" li="" to="" transferred=""> </administratively></li></ul>
D	G06F 17/30359	<ul> <li> <ul> <li></li></ul></li></ul>
D	G06F 17/30362	<ul> <li>· · · · {Locking methods, e.g. distributed locking, locking implementation details}</li> <li><administratively 16="" 2343<="" g06f="" li="" to="" transferred=""> </administratively></li></ul>
D	G06F 17/30365	•••• {Update request formulation} <administratively 16="" 235="" g06f="" to="" transferred=""></administratively>
D	G06F 17/30368	<ul> <li> <ul> <li></li></ul></li></ul>
D	G06F 17/30371	<ul> <li> <ul> <li></li></ul></li></ul>
D	G06F 17/30374	<ul> <li> <ul> <li></li></ul></li></ul>
D	G06F 17/30377	<ul> <li> <ul> <li></li></ul></li></ul>
D	G06F 17/3038	• • • • <del>{Details of bulk updating operations (data conversion details G06F 17/30569)}</del> <administratively 16="" 2386="" g06f="" to="" transferred=""></administratively>
D	G06F 17/30383	•••• {Updating materialised views} <administratively 16="" 2393="" g06f="" to="" transferred=""></administratively>
D	G06F 17/30386	<ul> <li>• • {Retrieval requests}</li> <li><administratively 16="" 24="" g06f="" to="" transferred=""></administratively></li> </ul>
D	G06F 17/30389	<ul> <li>• • • {Query formulation (interaction techniques for graphical user interfaces G06F 3/048)}</li> <li><administratively 16="" 242<="" g06f="" li="" to="" transferred=""> </administratively></li></ul>
D	G06F 17/30392	• • •        •      •
D	G06F 17/30395	<ul> <li>         • • • {Iterative querying; query formulation based on the results of a         preceding query}         <administratively 16="" 2425="" g06f="" to="" transferred=""> </administratively></li> </ul>
D	G06F 17/30398	• • • • <del>{Query predicate definition using graphical user interfaces, including menus and forms (G06F 17/30392 takes precedence)}</del> <administratively 16="" 2428="" g06f="" to="" transferred=""></administratively>
D	G06F 17/30401	• • • • <del>{Natural language query formulation (natural language analysis,</del> translation, semantics G06F 17/27, G06F 17/28)} <administratively 16="" 243="" g06f="" to="" transferred=""></administratively>
D	G06F 17/30404	•••• {Query languages} <administratively 16="" 2433="" g06f="" to="" transferred=""></administratively>
D	G06F 17/30407	<ul> <li> {Active constructs}</li> <li><administratively 16="" 2435="" g06f="" to="" transferred=""></administratively></li> </ul>
D	G06F 17/3041	{Embedded query languages} <administratively 16="" 2438="" g06f="" to="" transferred=""></administratively>

D	G06F 17/30412	
D	G06F 17/30415	
D	G06F 17/30418	••••• {Data retrieval commands; view definitions} <administratively <u="" to="" transferred="">G06F 16/2445&gt;</administratively>
D	G06F 17/30421	••••• {for particular applications; for extensibility, e.g. user defined types} <administratively 16="" 2448="" g06f="" to="" transferred=""></administratively>
D	G06F 17/30424	<ul> <li> {Query processing}</li> <li><administratively 16="" 245="" g06f="" to="" transferred=""></administratively></li> </ul>
D	G06F 17/30427	{Query translation} <administratively 16="" 2452="" g06f="" to="" transferred=""></administratively>
D	G06F 17/3043	<ul> <li>         • • • (Translation of natural language queries to structured queries (natural language analysis, translation, semantics G06F 17/27, G06F 17/28)}         </li> <li> <li> </li> <li> </li> <li> <li> </li> <li> <li> </li> <li> </li> <li> </li> <li> </li> <li> </li> <li> <li> </li> <li> <li> </li> <li> </li> <li> <li> <li> <li> <li> </li> <li> <li> <li> <li> </li> <li> <li> <li> </li> <li> </li> <li> <li> </li> <li> <li> </li> <li> <li> <li> <li> </li> <li> <li> <li> </li> <li> <li> </li> <li> <li> </li> <li> <li> </li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></ul>
D	G06F 17/30433	••••• {Access plan code generation and invalidation; reuse of access plans} <administratively 16="" 24524="" g06f="" to="" transferred=""></administratively>
D	G06F 17/30436	••••• {Internal representations for queries} <administratively 16="" 24526="" g06f="" to="" transferred=""></administratively>
D	G06F 17/30439	••••• {Standardisation and Simplification} <a dra<="" draw="" td=""></a>
D	G06F 17/30442	
D	G06F 17/30445	
D	G06F 17/30448	
D	G06F 17/30451	
D	G06F 17/30454	•••••• <del>{of operators}</del> <administratively <u="" to="" transferred="">G06F 16/24537&gt;</administratively>
D	G06F 17/30457	
D	G06F 17/3046	<ul> <li></li></ul>
D	G06F 17/30463	•••••• {Plan optimisation} <administratively <u="" to="" transferred="">G06F 16/24542&gt;</administratively>
D	G06F 17/30466	••••••• <del>{Join order optimisation}</del> <administratively <u="" to="" transferred="">G06F 16/24544&gt;</administratively>
D	G06F 17/30469	•••••••• {Selectivity estimation or determination} <administratively 16="" 24545="" g06f="" to="" transferred=""> </administratively>
D	G06F 17/30471	<ul> <li></li></ul>
D	G06F 17/30474	
D	G06F 17/30477	
D	G06F 17/3048	

D	G06F 17/30483	• • • • • <del>{of query operations}</del> <administratively <u="" to="" transferred="">G06F 16/24553&gt;</administratively>
D	G06F 17/30486	<ul> <li></li></ul>
D	G06F 17/30489	Aggregation and duplicate elimination} <administratively 16="" 24556="" g06f="" to="" transferred=""></administratively>
D	G06F 17/30492	•••••••• {Efficient disk access during query execution} <administratively 16="" 24557="" g06f="" to="" transferred=""></administratively>
D	G06F 17/30495	
D	G06F 17/30498	<pre></pre>
D	G06F 17/30501	· · · · · · · <del>(Intermediate data storage techniques for performance improvement)</del> <administratively 16="" 24561="" g06f="" to="" transferred=""></administratively>
D	G06F 17/30504	
D	G06F 17/30507	Applying rules; deductive queries} <administratively 16="" 24564="" g06f="" to="" transferred=""></administratively>
D	G06F 17/3051	
D	G06F 17/30513	
D	G06F 17/30516	
D	G06F 17/30519	<ul> <li>•••• {Query processing with adaptation to specific hardware, e.g. adapted for using GPUs or SSDs}</li> <li><administratively 16="" 24569="" g06f="" to="" transferred=""></administratively></li> </ul>
D	G06F 17/30522	•••• {Query processing with adaptation to user needs} <administratively 16="" 2457="" g06f="" to="" transferred=""></administratively>
D	G06F 17/30525	
D	G06F 17/30528	
D	G06F 17/3053	
D	G06F 17/30533	•••• {Other types of queries} <administratively 16="" 2458="" g06f="" to="" transferred=""></administratively>
D	G06F 17/30536	Approximate and statistical query processing} <administratively 16="" 2462="" g06f="" to="" transferred=""></administratively>
D	G06F 17/30539	<ul> <li> {Query processing support for facilitating data mining operations in structured databases}</li> <li><administratively 16="" 2465="" g06f="" to="" transferred=""></administratively></li> </ul>
D	G06F 17/30542	
D	G06F 17/30545	
D	G06F 17/30548	
D	G06F 17/30551	{Querying temporal data} <administratively 16="" 2477="" g06f="" to="" transferred=""></administratively>

D	G06F 17/30554	<ul> <li> {Query result display and visualisation} <administratively 16="" 248="" g06f="" to="" transferred=""></administratively></li> </ul>
D	G06F 17/30557	<ul> <li>         • • {Details of integrating or interfacing systems involving at least one database management system}     </li> <li>         cadministratively transferred to G06F 16/25     </li> </ul>
D	G06F 17/3056	<ul> <li>+ + {between a Database Management System and a front-end application} <administratively 16="" 252="" g06f="" to="" transferred=""></administratively></li> </ul>
D	G06F 17/30563	<ul> <li> <ul> <li></li></ul></li></ul>
D	G06F 17/30566	<ul> <li>         •          •          •</li></ul>
D	G06F 17/30569	<ul> <li> <ul> <li></li></ul></li></ul>
D	G06F 17/30572	<ul> <li>+ {Visual data mining and browsing structured data}</li> <li><administratively 16="" 26="" g06f="" to="" transferred=""></administratively></li> </ul>
D	G06F 17/30575	<ul> <li>• • {Replication, distribution or synchronisation of data between databases or within a distributed database; Distributed database system architectures therefor}</li> <li><administratively 16="" 27="" g06f="" to="" transferred=""></administratively></li> </ul>
D	G06F 17/30578	<ul> <li> {Details of asynchronous replication and data reconciliation} <administratively 16="" 273="" g06f="" to="" transferred=""></administratively></li> </ul>
D	G06F 17/30581	· · · · <del>(Details of synchronous replication)</del> <administratively 16="" 275<="" g06f="" p="" to="" transferred=""></administratively>
D	G06F 17/30584	<ul> <li> <ul> <li></li></ul></li></ul>
D	G06F 17/30587	<ul> <li> <ul> <li></li></ul></li></ul>
D	G06F 17/30589	<ul> <li> <ul> <li>Hierarchical databases, e.g. IMS, LDAP data stores, Lotus Notes}</li> <li>administratively transferred to G06F 16/282</li> </ul> </li> </ul>
D	G06F 17/30592	<ul> <li>••• {Multi-dimensional databases and data warehouses, e.g. MOLAP, ROLAP}</li> <li><administratively 16="" 283="" g06f="" to="" transferred=""></administratively></li> </ul>
D	G06F 17/30595	· · · · <del>{Relational databases}</del> <administratively <u="" to="" transferred="">G06F 16/284&gt;</administratively>
D	G06F 17/30598	<ul> <li> <ul> <li></li></ul></li></ul>
D	G06F 17/30601	<ul> <li>         • • • • {including cluster or class visualization or browsing (for textual data G06F 17/30713)}         <administratively 16="" 287="" g06f="" to="" transferred=""> </administratively></li> </ul>
D	G06F 17/30604	<ul> <li> + {Entity relationship models}</li> <li><administratively 16="" 288="" g06f="" to="" transferred=""></administratively></li> </ul>
D	G06F 17/30607	<ul> <li> <ul> <li></li></ul></li></ul>
D	G06F 17/3061	<ul> <li>• {of unstructured textual data (document management systems G06F 17/30011)}</li> <li><administratively 16="" 30="" g06f="" to="" transferred=""></administratively></li> </ul>
D	G06F 17/30613	<ul> <li>- {Indexing}</li> <li><administratively 16="" 31="" g06f="" to="" transferred=""></administratively></li> </ul>
D	G06F 17/30616	<ul> <li>         • • {Selection or weighting of terms for indexing (G06F 17/30663 takes precedence; for summarization G06F 17/30719)} <administratively 16="" 313="" g06f="" to="" transferred=""> </administratively></li> </ul>

D	G06F 17/30619	<ul> <li>         • •          &lt;              {indexing structures (indexing structures for structured data stores G06F 17/30321)}             </li> <li>             cadministratively transferred to G06F 16/316         </li> </ul>
D	G06F 17/30622	<ul> <li> {Inverted lists}</li> <li><administratively 16="" 319<="" g06f="" li="" to="" transferred=""> </administratively></li></ul>
D	G06F 17/30625	<ul> <li> {Trees}</li> <li><administratively 16="" 322="" g06f="" to="" transferred=""></administratively></li> </ul>
D	G06F 17/30628	· · · · · {Hash tables} <pre><administratively 16="" 325<="" g06f="" pre="" to="" transferred=""></administratively></pre>
D	G06F 17/30631	· · · · · {Index managing details} <pre><administratively 16="" 328<="" g06f="" pre="" to="" transferred=""></administratively></pre>
D	G06F 17/30634	<ul> <li>• • {Querying}</li> <li><administratively <u="" to="" transferred="">G06F 16/33&gt;</administratively></li> </ul>
D	G06F 17/30637	<ul> <li> {Query formulation}</li> <li><administratively 16="" 332="" g06f="" to="" transferred=""></administratively></li> </ul>
D	G06F 17/3064	<ul> <li>+ + + + + + + + + + + + + + + + + + +</li></ul>
D	G06F 17/30643	<ul> <li>+ + + + + + + + + + + + + + + + + + +</li></ul>
D	G06F 17/30646	<ul> <li> {reformulation based on results of preceding query}</li> <li><administratively 16="" 3325<="" g06f="" li="" to="" transferred=""> </administratively></li></ul>
D	G06F 17/30648	<ul> <li>+ + + + + + + + + + + + + + + + + + +</li></ul>
D	G06F 17/30651	•••••• {using graphical result space presentation or visualisation} <administratively <u="" to="" transferred="">G06F 16/3328&gt;</administratively>
D	G06F 17/30654	<ul> <li> {Natural language query formulation or dialogue systems}</li> <li><administratively 16="" 3329<="" g06f="" li="" to="" transferred=""> </administratively></li></ul>
D	G06F 17/30657	<ul> <li> {Query processing}</li> <li><administratively 16="" 3331="" g06f="" to="" transferred=""></administratively></li> </ul>
D	G06F 17/3066	<ul> <li> {Query translation}</li> <li><administratively <u="" to="" transferred="">G06F 16/3332&gt;</administratively></li> </ul>
D	G06F 17/30663	<ul> <li>         • • • • {Selection or weighting of terms from queries, including natural language queries} <administratively 16="" 3334="" <="" g06f="" li="" to="" transferred=""> </administratively></li></ul>
D	G06F 17/30666	<ul> <li> {Syntactic pre-processing steps, e.g. stopword elimination, stemming (lexical analysis G06F 17/277, G06F 8/425)}</li> <li><administratively 16="" 3335="" g06f="" to="" transferred=""></administratively></li> </ul>
D	G06F 17/30669	<ul> <li>         • • • • {Translation of the query language, e.g. Chinese to English (language translation G06F 17/28)}         <administratively 16="" 3337<="" g06f="" p="" to="" transferred=""> </administratively></li> </ul>
D	G06F 17/30672	<ul> <li> (Query expansion)</li> <li><administratively 16="" 3338="" g06f="" to="" transferred=""></administratively></li> </ul>
D	G06F 17/30675	<ul> <li></li></ul>
D	G06F 17/30678	<ul> <li>· · · · · {using boolean model}</li> <li><administratively 16="" 3341="" g06f="" to="" transferred=""></administratively></li> </ul>
D	G06F 17/30681	••••• {using phonetics} <administratively 16="" 3343="" g06f="" to="" transferred=""></administratively>

D	G06F 17/30684	<ul> <li> {using natural language analysis}</li> <li><administratively <u="" to="" transferred="">G06F 16/3344&gt;</administratively></li> </ul>
D	G06F 17/30687	<ul> <li> {using probabilistic model}</li> <li><administratively 16="" 3346<="" g06f="" li="" to="" transferred=""> </administratively></li></ul>
D	G06F 17/3069	••••• {using vector based model} <administratively 16="" 3347="" g06f="" to="" transferred=""></administratively>
D	G06F 17/30693	<ul> <li>         • • • {Reuse of stored results of previous queries (for formulation of new queries G06F 17/30646)}         <administratively 16="" 3349="" g06f="" to="" transferred=""> </administratively></li> </ul>
D	G06F 17/30696	<ul> <li> <ul> <li></li></ul></li></ul>
D	G06F 17/30699	<ul> <li>+ {Filtering based on additional data, e.g. user or group profiles (filtering in web context G06F 17/30867)}</li> <li><administratively 16="" 335="" g06f="" to="" transferred=""></administratively></li> </ul>
D	G06F 17/30702	<ul> <li> <ul> <li></li></ul></li></ul>
D	G06F 17/30705	<ul> <li>         •          •          •</li></ul>
D	G06F 17/30707	<ul> <li> <ul> <li></li></ul></li></ul>
D	G06F 17/3071	<ul> <li> <ul> <li></li></ul></li></ul>
D	G06F 17/30713	<ul> <li> <ul> <li></li></ul></li></ul>
D	G06F 17/30716	<ul> <li> <del>Browsing or visualization}</del> </li> <li> <del>Content of the second sec</del></li></ul>
D	G06F 17/30719	<ul> <li> <ul> <li></li></ul></li></ul>
D	G06F 17/30722	<ul> <li>+ {based on associated metadata or manual classification, e.g. bibliographic data}</li> <li><administratively 16="" 38="" g06f="" to="" transferred=""></administratively></li> </ul>
D	G06F 17/30725	<ul> <li>+ + {using identifiers, e.g. barcodes, RFIDs (for URLs G06F 17/30879)}</li> <li><administratively 16="" 381="" g06f="" to="" transferred=""></administratively></li> </ul>
D	G06F 17/30728	<ul> <li>+ + {using citations (hypermedia G06F 17/30014)}</li> <li><administratively 16="" 382="" g06f="" to="" transferred=""></administratively></li> </ul>
D	G06F 17/30731	<ul> <li>         •          •          •</li></ul>
D	G06F 17/30734	<ul> <li> {Ontology}</li> <li><administratively 16="" 367<="" g06f="" li="" to="" transferred=""> </administratively></li></ul>
D	G06F 17/30737	<ul> <li> {Thesaurus}</li> <li><administratively 16="" 374="" g06f="" to="" transferred=""></administratively></li> </ul>
D	G06F 17/3074	<ul> <li>{Audio data retrieval (retrieval of video data G06F 17/30781; retrieval of multimedia data G06F 17/30017; general determination or detection of speech characteristics G10L 25/00; speech recognition G10L 15/00; speaker recognition G10L 17/00; electrophonic musical instruments G10H; editing or indexing of data stored based on relative movement between record carrier and transducer G11B 27/00)} <administratively 16="" 60="" g06f="" to="" transferred=""></administratively></li> </ul>

D	G06F 17/30743	<ul> <li>• {using features automatically derived from the audio content, e.g. descriptors, fingerprints, signatures, MEP-cepstral coefficients, musical score, tempo (content oriented musical parameter indexing, e.g. tempo G10H; determination or detection of speech characteristics G10L 25/00; audio watermarking, e.g. by inserting fingerprints G10L 19/018; indexing by using information signals detectable on the record carrier and recorded by the same method as the main recording G11B 27/28)}</li> <li><administratively 16="" 683="" g06f="" to="" transferred=""></administratively></li> </ul>
D	G06F 17/30746	<ul> <li> <ul> <li></li></ul></li></ul>
D	G06F 17/30749	<ul> <li>• {using information manually generated or using information not derived from the audio data, e.g. title and artist information, time and location information, usage information, user ratings (programmed access in sequence to addressed parts of tracks of operating discs G11B 27/105)} <administratively 16="" 68="" g06f="" to="" transferred=""></administratively></li> </ul>
D	G06F 17/30752	<ul> <li> <ul> <li></li></ul></li></ul>
D	G06F 17/30755	<ul> <li>• • {Query formulation specially adapted for audio data retrieval} <administratively <u="" to="" transferred="">G06F 16/632&gt;</administratively></li> </ul>
D	G06F 17/30758	<ul> <li>• • • {Query by example, e.g. query by humming}</li> <li><administratively 16="" 634="" g06f="" to="" transferred=""></administratively></li> </ul>
D	G06F 17/30761	<ul> <li> <ul> <li></li></ul></li></ul>
D	G06F 17/30764	<ul> <li>· · · · {by using biological or physiological data}</li> <li><administratively 16="" 636="" g06f="" to="" transferred=""></administratively></li> </ul>
D	G06F 17/30766	<ul> <li> {Administration of user profiles, e.g. generation, initialization, adaptation, distribution}</li> <li><administratively 16="" 637="" g06f="" to="" transferred=""></administratively></li> </ul>
D	G06F 17/30769	<ul> <li>         • • {Presentation of query results (menu, index or table of content presentation of record carriers G11B 27/32, G11B 27/34)} <administratively 16="" 638<="" g06f="" p="" to="" transferred=""> </administratively></li> </ul>
D	G06F 17/30772	•••• {making use of playlists} <administratively 16="" 639="" g06f="" to="" transferred=""></administratively>
D	G06F 17/30775	<ul> <li>• • {Browsing (generation of a list or set of audio data G06F 17/30772; trick modes G11B 27/005; browsing through audio recorded on operating discs G11B 27/105)}</li> <li><administratively 16="" 64="" g06f="" to="" transferred=""></administratively></li> </ul>
D	G06F 17/30778	<ul> <li>{Audio database index structures and management thereof} <administratively <u="" to="" transferred="">G06F 16/61&gt;</administratively></li> </ul>
D	G06F 17/30781	<ul> <li>{of video data (recognising patterns G06K 9/00; image analysis G06T 7/00; editing or indexing information signals on a record carrier in which information is recorded and accessed based on relative movement between record carrier and transducer G11B 27/00; source coding or decoding of digital video signal H04N 19/00; selective content distribution, e.g. interactive television, video on demand H04N 21/00)} <administratively 16="" 70="" g06f="" to="" transferred=""></administratively></li> </ul>
D	G06F 17/30784	<ul> <li>• {using features automatically derived from the video content, e.g. descriptors, fingerprints, signatures, genre (recognising video content G06K 9/00711; extraction of features or characteristics for pattern recognition of the image G06K 9/46)}</li> <li><administratively 16="" 783="" g06f="" to="" transferred=""></administratively></li> </ul>

D	G06F 17/30787	<ul> <li>• • {using audio features (general determination or detection of speech characteristics G10L 25/00; speech recognition G10L 15/00; speaker recognition G10L 17/00; contents oriented musical parameter indexing, e.g. tempo G10H)}</li> <li><administratively 16="" 7834="" g06f="" to="" transferred=""></administratively></li> </ul>
D	G06F 17/3079	<ul> <li>+ + {using objects detected or recognised in the video content (methods for image acquisition of a pattern to be recognized involving target detection G06K 9/3241)}</li> <li><administratively 16="" 7837="" g06f="" to="" transferred=""></administratively></li> </ul>
D	G06F 17/30793	<ul> <li>         • • • {the detected or recognised objects being people (face recognition G06K 9/00221; human body recognition G06K 9/00369; speaker recognition G10L 17/00)} <administratively 16="" 784="" g06f="" to="" transferred=""> </administratively></li> </ul>
D	G06F 17/30796	<ul> <li>+ {using original textual content or text extracted from visual content or transcript of audio data (extraction of overlay text G06K 9/3266)}</li> <li><administratively 16="" 7844="" g06f="" to="" transferred=""></administratively></li> </ul>
D	G06F 17/30799	<ul> <li>• • {using low-level visual features of the video content (methods for preprocessing an image in order to extract features of a pattern to be recognized G06K 9/46; image processing involving image features extraction in general G06T)}</li> <li><administratively 16="" 7847<="" g06f="" li="" to="" transferred=""> </administratively></li></ul>
D	G06F 17/30802	• • • • <del>{using colour or luminescence (colour analysis on image data G06T 7/90)}</del> <administratively <u="" to="" transferred="">G06F 16/785&gt;</administratively>
D	G06F 17/30805	<ul> <li> <ul> <li></li></ul></li></ul>
D	G06F 17/30808	<ul> <li>•••• {using texture (G06F 17/3079 takes precedence; texture analysis on image data G06T 7/41, G06T 7/49)}</li> <li><administratively 16="" 7857="" g06f="" to="" transferred=""></administratively></li> </ul>
D	G06F 17/30811	<ul> <li>•••• {using motion, e.g. object motion, camera motion (motion analysis on image data G06T 7/20)}</li> <li><administratively 16="" 786="" g06f="" to="" transferred=""></administratively></li> </ul>
D	G06F 17/30814	<ul> <li>••• + {using domain-transform features, e.g. DCT, wavelet transform coefficients}</li> <li><administratively 16="" 7864="" g06f="" to="" transferred=""></administratively></li> </ul>
D	G06F 17/30817	<ul> <li>• {using information manually generated or using information not derived from the video content, e.g. time and location information, usage information, user ratings}</li> <li><administratively 16="" 78="" g06f="" to="" transferred=""></administratively></li> </ul>
D	G06F 17/3082	<ul> <li> <ul> <li></li></ul></li></ul>
D	G06F 17/30823	<ul> <li>• • {Query formulation and processing specifically adapted for the retrieval of video data}</li> <li><administratively 16="" 73="" g06f="" to="" transferred=""></administratively></li> </ul>
D	G06F 17/30825	<ul> <li>• • • {Query by example, e.g. a complete video frame or video sequence (graphical querying G06F 17/30831)}</li> <li><administratively 16="" 7328="" g06f="" to="" transferred=""></administratively></li> </ul>
D	G06F 17/30828	<ul> <li> <ul> <li></li></ul></li></ul>

D	G06F 17/30831	<ul> <li>Graphical querying, e.g. query-by-region, query-by-sketch, query- by-trajectory, GUIs for designating a person/face/object as a query predicate (end-user interface involving hot spots associated with the video H04N 21/4725; end-user interface for selecting a Region of Interest H04N 21/4728)}</li> <li><administratively 16="" 7335="" g06f="" to="" transferred=""></administratively></li> </ul>
D	G06F 17/30834	•••• {Query language or query format} <administratively <u="" to="" transferred="">G06F 16/7343&gt;</administratively>
D	G06F 17/30837	<ul> <li>• {Query results presentation or summarisation specifically adapted for the retrieval of video data (end-user interface for requesting or interacting with video content, e.g. video on demand interface or electronic program guide H04N 21/472)}</li> <li><administratively 16="" 738="" g06f="" to="" transferred=""></administratively></li> </ul>
D	G06F 17/3084	<ul> <li> <del>Presentation of query results (G06F 17/30843 takes precedence; browsing a video collection G06F 17/30849)}</del> </li> <li>              cadministratively transferred to <u>G06F 16/738</u>&gt;      </li> </ul>
D	G06F 17/30843	<ul> <li>         Presentation in form of a video summary, e.g. the video summary being a video sequence, a composite still image or having synthesized frames}     </li> <li>         cadministratively transferred to G06F 16/739     </li> </ul>
D	G06F 17/30846	<ul> <li>         • {Browsing of video data (end-user interface for requesting or interacting with video content, e.g. video on demand interface or electronic program guide H04N 21/472; indicating arrangements in the context of indexing and addressing recorded information G11B 27/34)}     </li> <li> <administratively 16="" 74<="" g06f="" p="" to="" transferred=""> </administratively></li> </ul>
D	G06F 17/30849	<ul> <li> <ul> <li></li></ul></li></ul>
D	G06F 17/30852	•••• {Browsing the internal structure of a single video sequence} <administratively <u="" to="" transferred="">G06F 16/745&gt;</administratively>
D	G06F 17/30855	<ul> <li>+ + {Hypervideo (linking data to content, e.g. by linking an URL to a video object in the context of video distribution systems H04N 21/858)}</li> <li><administratively 16="" 748="" g06f="" to="" transferred=""></administratively></li> </ul>
D	G06F 17/30858	<ul> <li>• • {Video database index structures or management thereof (table of contents on a record carrier G11B 27/327)}</li> <li><administratively 16="" 71="" g06f="" to="" transferred=""></administratively></li> </ul>
D	G06F 17/30861	<ul> <li>• {Retrieval from the Internet, e.g. browsers (internet protocol H04L 29/06095)} <administratively 16="" 95="" g06f="" to="" transferred=""></administratively></li> </ul>
D	G06F 17/30864	<ul> <li>+ {by querying, e.g. search engines or meta-search engines, crawling techniques, push systems}</li> <li><administratively 16="" 951<="" g06f="" li="" to="" transferred=""> </administratively></li></ul>
D	G06F 17/30867	<ul> <li>+ + {with filtering and personalisation}</li> <li><administratively 16="" 9535<="" g06f="" li="" to="" transferred=""> </administratively></li></ul>
D	G06F 17/3087	<ul> <li>• • • {Spatially dependent indexing and retrieval, e.g. location dependent results to queries}</li> <li><administratively 16="" 9537="" g06f="" to="" transferred=""></administratively></li> </ul>
D	G06F 17/30873	<ul> <li>+ {by navigation, e.g. using categorized browsing, portals, synchronized browsing, visual networks of documents, virtual worlds or tours}</li> <li><administratively 16="" 954="" g06f="" to="" transferred=""></administratively></li> </ul>
D	G06F 17/30876	<ul> <li>+ {by using information identifiers, e.g. encoding URL in specific indicia, browsing history}</li> <li><administratively 16="" 955="" g06f="" to="" transferred=""></administratively></li> </ul>
D	G06F 17/30879	••• {by using bar codes} <administratively 16="" 9554="" g06f="" to="" transferred=""></administratively>

D	G06F 17/30882	<ul> <li>• • {details of hyperlinks; management of linked annotations}</li> <li><administratively 16="" 9558="" g06f="" to="" transferred=""></administratively></li> </ul>
D	G06F 17/30884	•••• {Bookmark management} <administratively 16="" 9562="" g06f="" to="" transferred=""></administratively>
D	G06F 17/30887	<ul> <li>••• {URL specific, e.g. using aliases, detecting broken or misspelled links (address allocation to terminals or nodes connected to a network H04L 29/12009)}</li> <li><administratively 16="" 9566="" g06f="" to="" transferred=""></administratively></li> </ul>
D	G06F 17/3089	<ul> <li>+ {Web site content organization and management, e.g. publishing, automatic linking or maintaining pages}</li> <li><administratively 16="" 958="" g06f="" to="" transferred=""></administratively></li> </ul>
D	G06F 17/30893	<ul> <li>• • • {Access to data in other repository systems, e.g. legacy data or dynamic Web page generation}</li> <li><administratively 16="" 972="" g06f="" to="" transferred=""></administratively></li> </ul>
D	G06F 17/30896	<ul> <li> <ul> <li></li></ul></li></ul>
D	G06F 17/30899	<ul> <li> <ul> <li></li></ul></li></ul>
D	G06F 17/30902	<ul> <li>••• {of access to content, e.g. by caching (accessing, addressing or allocating within memory systems and caches G06F 12/08)}</li> <li><administratively 16="" 9574="" g06f="" to="" transferred=""></administratively></li> </ul>
D	G06F 17/30905	<ul> <li> <ul> <li></li></ul></li></ul>
D	G06F 17/30908	<ul> <li>{of semistructured data, the undelying structure being taken into account, e.g. mark-up language structure data}</li> <li><administratively 16="" 80="" g06f="" to="" transferred=""></administratively></li> </ul>
D	G06F 17/30911	<ul> <li> <ul> <li>{Indexing, e.g. of XML tags}</li> <li><administratively 16="" 81<="" g06f="" li="" to="" transferred=""> </administratively></li></ul> </li> </ul>
D	G06F 17/30914	<ul> <li>         • • {Mapping or conversion}         <administratively 16="" 84="" g06f="" to="" transferred=""> </administratively></li> </ul>
D	G06F 17/30917	<ul> <li> {Mapping to a database}</li> <li><administratively 16="" 86="" g06f="" to="" transferred=""></administratively></li> </ul>
D	G06F 17/3092	<ul> <li>         • • {Mark-up to mark-up conversion (conversion for visualization in web browsing G06F 17/30905)} <administratively 16="" 88="" g06f="" to="" transferred=""> </administratively></li> </ul>
D	G06F 17/30923	<ul> <li>• • {XML native databases, structures and querying} <administratively 16="" 83="" g06f="" to="" transferred=""></administratively></li> </ul>
D	G06F 17/30926	<ul> <li> {Query formulation}</li> <li><administratively 16="" 832="" g06f="" to="" transferred=""></administratively></li> </ul>
D	G06F 17/30929	• • • <del>{Query processing}</del> <administratively <u="" to="" transferred="">G06F 16/835&gt;</administratively>
D	G06F 17/30932	<ul> <li> {Query translation}</li> <li><administratively 16="" 8358="" g06f="" to="" transferred=""></administratively></li> </ul>
D	G06F 17/30935	<ul> <li> {Query optimisation}</li> <li><administratively 16="" 8365="" g06f="" to="" transferred=""></administratively></li> </ul>
D	G06F 17/30938	<ul> <li> {Query execution}</li> <li><administratively <u="" to="" transferred="">G06F 16/8373&gt;</administratively></li> </ul>
D	G06F 17/30941	<ul> <li> <ul> <li></li></ul></li></ul>
D	G06F 17/30943	<ul> <li>{details of database functions independent of the retrieved data type}</li> <li><administratively 16="" 90="" g06f="" to="" transferred=""></administratively></li> </ul>

D	G06F 17/30946	<ul> <li>• • {indexing structures (indexing structures for specific data types G06F 17/30067, G06F 17/30619, G06F 17/30321)}</li> <li><administratively 16="" 901="" g06f="" to="" transferred=""></administratively></li> </ul>
D	G06F 17/30949	<ul> <li>+ + {hash tables (hashing functions for network address lookup or routing in networks H04L 45/00)}</li> <li><administratively 16="" 9014="" g06f="" to="" transferred=""></administratively></li> </ul>
D	G06F 17/30952	<ul> <li>• • • {using directory or table look-up (use of a directory or look-up table in file systems G06F 17/30067)}</li> <li><administratively 16="" 9017="" g06f="" to="" transferred=""></administratively></li> </ul>
D	G06F 17/30955	• • • <del>{using more than one table in sequence, i.e. systems with three or more layers}</del> <administratively 16="" 902="" g06f="" to="" transferred=""></administratively>
D	G06F 17/30958	<ul> <li> <ul> <li>Graphs; Linked lists (G06F 17/30961 takes precedence)}</li> <li>administratively transferred to G06F 16/9024&gt;         </li></ul> </li> </ul>
D	G06F 17/30961	<ul> <li> <del>{Trees}</del></li> <li><administratively <u="" to="" transferred="">G06F 16/9027&gt;</administratively></li> </ul>
D	G06F 17/30964	<ul> <li> {Querying}</li> <li><administratively 16="" 903="" g06f="" to="" transferred=""></administratively></li> </ul>
D	G06F 17/30967	• • • {Query formulation} <administratively <u="" to="" transferred="">G06F 16/9032&gt;</administratively>
D	G06F 17/3097	<ul> <li> {using system suggestions}</li> <li><administratively 16="" 90324="" g06f="" to="" transferred=""></administratively></li> </ul>
D	G06F 17/30973	<ul> <li>· · · · {using search space presentation or visualization, e.g. category or range presentation and selection}</li> <li><administratively 16="" 90328="" g06f="" to="" transferred=""></administratively></li> </ul>
D	G06F 17/30976	<ul> <li></li></ul>
D	G06F 17/30979	<ul> <li> {Query processing}</li> <li><administratively 16="" 90335="" g06f="" to="" transferred=""></administratively></li> </ul>
D	G06F 17/30982	<ul> <li> <ul> <li></li></ul></li></ul>
D	G06F 17/30985	<ul> <li> <ul> <li></li></ul></li></ul>
D	G06F 17/30988	<ul> <li>+ + + + + + + + + + + + + + + + + + +</li></ul>
D	G06F 17/30991	<ul> <li> <ul> <li></li></ul></li></ul>
D	G06F 17/30994	<ul> <li> <ul> <li></li></ul></li></ul>
D	G06F 17/30997	<ul> <li>         Retrieval based on associated metadata}     </li> <li>         cadministratively transferred to <u>G06F 16/907</u>&gt;     </li> </ul>

G06F 19/00	Digital computing or data processing equipment or methods, specially adapted for specific applications (specially adapted for specific functions <u>G06F 17/00</u> ; data processing systems or methods specially adapted for administrative, commercial, financial, managerial, supervisory or forecasting purposes <u>G06Q</u> ; healthcare informatics <u>G16H</u> )
	<u>NOTE</u> This group only <u>covers</u> specific applications related to the fields of healthcare or life sciences, e.g. bioinformatics ( <u>G09F 19/10</u> ), medical informatics ( <u>G06F 19/30</u> ), or chemoinformatics ( <u>G06F 19/70</u> ).
G06F 19/30 (Frozen)	<ul> <li>{Medical informatics, i.e. computer-based analysis or dissemination of patient or disease data (bioinformatics <u>G06F 19/10</u>; measuring for diagnostic purposes <u>A61B 5/00</u>; recognising patterns in biomedical signals <u>G06K 9/00496</u>; data processing systems or methods specially adapted for administrative or managerial aspects of healthcare or welfare <u>G06Q 50/22</u>)}</li> </ul>
	WARNINGGroup G06F 19/30 is no longer used for the classification of documents as of January 1, 2018. The content of this group is being reclassified into groupsG16H 10/00 - G16H 80/00.Groups G06F 19/30 and G16H 10/00 - G16H 80/00 should should be considered in order to perform a complete search.
G06F 19/32 (Frozen)	<ul> <li>{Medical data management, e.g. systems or protocols for archival or communication of medical images, computerised patient records or computerised general medical references (information retrieval or databases per se <u>G06F 17/30G06F 16/00</u>; data security aspects <u>G06F 21/00</u>)}</li> </ul>
	WARNINGGroup G06F 19/32 is no longer used for the classification of documents as of January 1, 2018. The content of this group is being reclassified into groups G16H 10/00 – G16H 80/00.Groups G06F 19/32 and G16H 10/00 – G16H 80/00 should be considered in order to perform a complete search.
G06F 2216/00	Indexing scheme relating to additional aspects of information retrieval not explicitly covered by G06F 17/30 G06F 16/00 and subgroups
ject: RP0580 (G06K	()
G06K 9/00	Methods or arrangements for reading or recognising printed or written characters or for recognising patterns, e.g. fingerprints (processing or analysis of tracks of nuclear particles <u>G01T 5/02</u> {; information retrieval <u>G06F 17/30 G06F 16/00</u> ; recognition of molecular sequences <u>G06F 19/70</u> ; radio frequency identification <u>G06K 7/00</u> ; recognition of barcodes and similar code images <u>G06K 7/10</u> ; computer systems based on specific computational models <u>G06N</u> ; image analysis, inspection, positioning or tracking <u>G06T 7/00</u> ; recognition of acoustic speech signals <u>G10L 15/00</u> ; acoustic speaker identification <u>G10L 17/00</u> })
	G06F 19/30 (Frozen) G06F 19/32 (Frozen) G06F 2216/00

## <u>NOTES</u>

- 1. In this group, the following term is used with the meaning indicated:
  - "recognising" includes several functions such as extracting features, clustering, classifying or matching.

2. IPC subgroups <u>G06K 9/20</u>, <u>G06K 9/36</u>, <u>G06K 9/62</u> and <u>G06K 9/74</u> refer to methods or arrangements that can be applied to a pattern independently of its nature or to that are applied to specific patterns not included in the subgroups in the range <u>G06K 9/00006</u> - <u>G06K 9/00852</u>. The CPC subgroups in the range <u>G06K 9/00066</u> - <u>G06K 9/00852</u> refer to the same methods or arrangements when

		applied or specially adapted to the specific patterns to which these subgroups relate.
		3. The present group does not cover the use of recognised patterns in specific applications, e.g. the use of traced gestures recognised as commands to be input to a computer is covered by the groups under $GOGF 3/OO$
	G06K 9/00624	<ul> <li>{Recognising scenes, i.e. recognition of a whole field of perception; recognising scene-specific objects (image retrieval G06F 17/30244G06F 16/50; video retrieval G06F 17/30781G06F 16/70; image analysis and image segmentation, e.g. pixel labelling G06T 7/00; alarm systems G08B; traffic control G08G; pictorial communication H04N)}</li> </ul>
	G06K 9/00711	<ul> <li>{Recognising video content, e.g. extracting audiovisual features from movies, extracting representative key-frames, discriminating news vs. sport content (information retrieval in video databases <u>G06F 17/30781G06F 16/70</u>; recognition of movements or behaviour <u>G06K 9/00335</u>; extracting overlay text <u>G06K 9/3266</u>; fusion techniques <u>G06K 9/6288</u>; speech recognition <u>G10L 15/00</u>; indexing of audio and video or audiovisual data on record media using extracted features or characteristics <u>G11B 27/28</u>)}</li> </ul>
	G06K 9/00744	<ul> <li>• • {Extracting features from the video content, e.g. video "fingerprints", or characteristics, e.g. by automatic extraction of representative shots or key frames (segmentation for general image processing G06T 7/10; use of extracted content features in video information retrieval G06F 17/30784G06F 16/783; automated annotation of image based on image contents G06K 9/00671; determination of region of interest for recognition G06K 9/3233; extraction of image features or characteristics G06K 9/46; determining representative patterns G06K 9/6255)}</li> </ul>
	G06K 9/00751	<ul> <li>• • • {Detecting suitable features for summarising video content (presentation in the form of a video summary G06F 17/30843G06F 16/739; editing video summary G11B 27/034; programmed access to video content G11B 27/105)}</li> </ul>
U	G06K 9/6217	<ul> <li>{Design or setup of recognition systems and techniques; Extraction of features in feature space; Clustering techniques; Blind source separation (regression analysis <u>G06F 17/18</u>)}</li> </ul>
U	G06K 9/6262	
	G06K 9/6263	<ul> <li>• • • {based on the feedback of a supervisor (relevance feedback in information retrieval G06F 17/30G06F 16/00)}</li> </ul>
U	G06K 17/00	Methods or arrangements for effecting co-operative working between equipments covered by two or more of the preceding main groups, e.g. automatic card files incorporating conveying and reading operations
	G06K 17/0016	• {Selecting or retrieving of images by means of their associated code-marks, e.g. coded microfilm or microfiche (microfilm reading <u>G03B 21/11</u> ; computers therefor <u>G06F 17/30<i>G06F 16/00</i></u> ; teaching devices <u>G09B 5/02</u> ; accessing record carriers <u>G11B 27/002</u> ; static digital stores using optical elements <u>G11C 13/04</u> ; intermediate storage of facsimile picture signals <u>H04N 1/21</u> )}

# Project: RP0580 (G10H)

U	G10H 2240/00	Data organisation or data communication aspects, specifically adapted for electrophonic musical tools or instruments
	G10H 2240/005	<ul> <li>Data structures for use in electrophonic musical devices; Data structures including musical parameters derived from musical analysis (audio retrieval G06F 17/3074G06F 16/60)</li> </ul>
	G10H 2240/075	<ul> <li>Musical metadata derived from musical analysis or for use in electrophonic musical instruments (additional information unrelated to its juxtaposed musical file data <u>G10H 2240/091</u>; audio retrieval <u>G06F 17/3074G06F 16/60</u>)</li> </ul>

G10H 2240/121	<ul> <li>Musical libraries, i.e. musical databases indexed by musical parameters,</li> </ul>
	wavetables, indexing schemes using musical parameters, musical rule bases
	or knowledge bases, e.g. for automatic composing methods (audio retrieval
	G06F 16/60); (audio retrieval G06F 17/3074)

## Project: RP0580 (G11C)

G11C 15/00 Digital stores in which information comprising one or more characteristic parts is written into the store and in which information is read-out by searching for one or more of these characteristic parts, i.e. associative or content-addressed stores (in which information is addressed to a specific location G11C 11/00 {; selection information using addressing means, e.g. hashing, tree addressing, chaining G06F 11/22; information retrieval systems using a computer G06F 17/30G06F 16/00 })

### Project: RP0580 (H04L)

U	H04L 12/00	Data switching networks (interconnection of, or transfer of information or other signals between, memories, input/output devices or central processing units <u>G06F 13/00</u> )
U	H04L 12/28	<ul> <li>characterised by path configuration, e.g. local area networks [LAN], wide area networks [WAN]</li> </ul>
U	H04L 12/2803	<ul> <li>• {Home automation networks}</li> </ul>
U	H04L 12/2807	<ul> <li>• {Exchanging configuration information on appliance services in a home automation network (adress allocation <u>H04L 29/12207</u>; arrangements for maintenance or administration involving network analysis for automatically determining the actual topology of a network <u>H04L 41/12</u>; hardware or software tools for network management using graphical user interfaces <u>H04L 41/22</u>)}</li> </ul>
	H04L 12/2812	<ul> <li>• • {describing content present in a home automation network, e.g. audio video content (retrieval from the Internet G06F 17/30861G06F 16/95)}</li> </ul>
U	H04L 29/00	Arrangements, apparatus, circuits or systems, not covered by a single one of groups <u>H04L 1/00</u> - <u>H04L 27/00</u> (interconnection of, or transfer of information or other signals between, memories, input/output devices or central processing units <u>G06F 13/00</u> ){contains provisionally no documents}
U	H04L 29/02	<ul> <li>Communication control (in satellite networks <u>H04B 7/185</u>); Communication processing (<u>H04L 29/12</u>, <u>H04L 29/14</u> take precedence){contains provisionally no documents}</li> </ul>
U	H04L 29/06	
U	H04L 29/08	
U	H04L 29/08081	<ul> <li>• • • {Protocols for network applications (protocols for multimedia communication <u>H04L 29/06027</u>; protocols for telewriting <u>H04L 29/06034</u>; message switching systems <u>H04L 51/00</u>)}</li> </ul>
	H04L 29/0809	<ul> <li>•••• {involving the use of web-based technology, e.g. Hyper Text Transfer Protocol [HTTP], (information retrieval from the Internet G06F 17/30861G06F 16/95)}</li> </ul>
U	H04L 29/08135	•••• {in which application tasks are distributed across nodes in the network (multiprogramming arrangements G06F 9/46)}

	H04L 29/08306	<ul> <li>•••• {Arrangements for peer-to-peer networking [P2P]; functionalities, architectural details or applications of P2P networks (provisions for file transfer, upload, download H04L 29/08117; provisions for accessing replicated servers H04L 29/08144; security provisions H04L 29/06551; addressing provisions H04L 29/12009; scheduling provisions H04L 29/08945; presence management provisions H04L 29/08684; multimedia provisions H04L 29/06176; information retrieval provisions, file indexing, file systems</li> <li>G06F 17/30 G06F 16/00; wireless interfaces between terminal devices H04W 92/18; small scale hierarchical wireless network topologies H04W 84/10; peer-to-peer connection between video clients H04N 21/632; peer-to-peer connection between video game machines A63F 13/34)}</li> </ul>
U	H04L 29/08702	<ul> <li>• (involving intermediate processing or storage in the network, e.g. proxy (billing provisions H04L 12/14; multimedia network architectures, gateways and control entities H04L 29/0621; multimedia handling, encoding and conversion H04L 29/06476; security provisions H04L 29/06551; addressing provisions H04L 29/12009; network management provisions H04L 41/00; monitoring provisions H04L 43/00)}</li> </ul>
		<u>WARNING</u> The subgroups <u>H04L 29/08711</u> , <u>H04L 29/08738</u> - <u>H04L 29/08783</u> , and <u>H04L 29/08801</u> - <u>H04L 29/08855</u> are not complete pending reorganisation. See also <u>H04L 29/0872</u> , <u>H04L 29/08729</u> and <u>H04L 29/08792</u> )
	H04L 29/08729	<ul> <li>•••• {Arrangements for intermediate storage, e.g. caching (browsing optimisation of access to content G06F 17/30902G06F 16/9574)}</li> <li><u>WARNING</u></li> <li>This group is no longer used for the classification of new documents as from December 1, 2009. The backlog of this group is being particularly replaced at the cub previous 10041, 20/00744.</li> </ul>
		continuously reclassified to the subgroups <u>H04L 29/08711</u> - <u>H04L 29/08909</u>
	H04L 29/08783	<ul> <li>••• {Arrangements for reducing the amount or size of exchanged application data (protocols for header compression <u>H04L 29/0604</u>; optimizing visualization of content <u>G06F 17/30905G06F 16/9577</u>; digital video compression <u>H04N 19/00</u>)}</li> </ul>
	H04L 29/08792	<ul> <li>• • • {Arrangements for data reduction and/or adaptation (protocols for data compression <u>H04L 29/0604</u>; optimising the visualization of content <u>G06F 17/30905G06F 16/9577</u>; digital video signal compression <u>H04N 19/00</u>)}</li> </ul>
		<u>WARNING</u> This group is no longer used for the classification of new documents as from December 1, 2009. The backlog of this group is being continuously reclassified to the subgroups <u>H04L 29/08711</u> - <u>H04L 29/08909</u>
	H04L 29/08801	<ul> <li>•••• {Arrangements for storing temporarily data at an intermediate stage, e.g. caching (browsing optimization of access to content by caching G06F 17/30902G06F 16/9574)}</li> </ul>
U	H04L 29/12	characterised by the data terminal {contains provisionally no documents}

U	H04L 29/12009	<ul> <li>{Arrangements for addressing and naming in data networks}</li> </ul>
		NOTES 1. H04L 61/00 covers aspects of data networks, excluding pure telephone solutions (H04M 7/00) or addressing within a device, e.g. process, memory etc. (G06F 13/42 or G06F 12/00).
		<ol><li>Aspects relating to switching and routing are classified in <u>H04L 12/56</u>.</li></ol>
		<ol> <li>Main aspects covered by this groups are: address resolution; directories and name-to-address resolution; allocation of addresses; conversion of addresses; logical names and non-standard use of addresses</li> </ol>
		WARNING
		This subgroup is no longer used for classification as from 01.05.2012. The backlog of this subgroup is being continuously reclassified to <u>H04L 61/00</u>
U	H04L 29/12047	<ul> <li>• {Directories; name-to-address mapping (telephone directories in user terminals <u>H04M 1/27</u>)}</li> </ul>
		WARNING
		This subgroup is no longer used for classification as from 01.05.2012. The backlog of this subgroup is being continuously reclassified to <u>H04L 61/15</u>
	H04L 29/12132	<ul> <li>• • {Mechanisms for table lookup, also between directories; Directory data structures; Synchronization of directories (information retrieval in file systems <u>G06F 17/30067G06F 16/10</u>; information retrieval in structured data stores <u>G06F 17/30286G06F 16/20</u>)}</li> </ul>
		<u>WARNING</u> This subgroup is no longer used for classification as from 01.05.2012. The backlog of this subgroup is being continuously reclassified to <u>H04L 61/1552</u>
	H04L 29/12594	<ul> <li>• • {Arrangements for managing names, e.g. use of aliases or nicknames (retrieval from the Internet by using information identifiers, e.g. URLs G06F 17/30876G06F 16/955; name-to-address mapping H04L 29/12047)}</li> </ul>
		<u>WARNING</u> This subgroup is no longer used for classification as from 01.05.2012. The backlog of this subgroup is being continuously reclassified to <u>H04L 61/30</u>
U	H04L 41/00	{Arrangements for maintenance or administration or management of packet switching networks}
U	H04L 41/02	<ul> <li>{involving integration or standardization}</li> </ul>
	H04L 41/024	<ul> <li>{using relational databases for representation of network management data, e.g. managing via structured query language [SQL] (information retrieval in structured data stores G06F 17/30286G06F 16/20)}</li> </ul>
	H04L 41/0246	<ul> <li>{exchanging or transporting network management information using Internet, e.g. aspects relating to embedding network management web servers in network elements, web service for network management purposes, aspects related to Internet applications or services or web-based protocols, simple object access protocol [SOAP] (web-based network application protocols H04L 67/02; web-based network application protocols for remote control of end-devices or monitoring of remote application data H04L 67/025; proprietary application protocols for remote control of end-devices in special networking environments H04L 67/125; retrieval from the Internet G06F 17/30861G06F 16/95)}</li> </ul>

U	H04L 41/50	<ul> <li>{Network service management, i.e. ensuring proper service fulfillment according to an agreement or contract between two parties, e.g. between an IT-provider and a customer}</li> </ul>
U	H04L 41/508	<ul> <li>• {based on type of value added network service under agreement}</li> </ul>
	H04L 41/5083	<ul> <li>• {wherein the managed service relates to web hosting (web-based network application protocols <u>H04L 67/02</u>; web site content organization and management <u>G06F 17/3089G06F 16/958</u>; video-hosting <u>H04N 21/2743</u>)}</li> </ul>
	H04L 41/5096	<ul> <li>• {wherein the managed service relates to distributed or central networked applications (management of file systems G06F 17/30067 G06F 16/10); management of structured data stores G06F 17/30286 G06F 16/20)}</li> </ul>
U	H04L 61/00	{Network arrangements or network protocols for addressing or naming}
		<u>NOTE</u>
		<ul> <li>This group <u>does not cover</u>:</li> <li>aspects relating to switching or routing which are covered by groups <u>H04L 45/00</u> or <u>H04L 49/00</u>;</li> <li>aspects relating to configuration management of data networks or network elements in general, which are covered by group <u>H04L 41/08</u></li> <li>aspects of addressing in telephony which are covered by group <u>H04M 7/00</u>;</li> <li>aspects of addressing within devices, e.g. process or memory, which are covered by groups <u>G06F 13/42</u> or <u>G06F 12/00</u>.</li> </ul>
U	H04L 61/15	<ul> <li>{Directories; Name-to-address mapping (telephone directories in user terminals H04M 1/27)}</li> </ul>
	H04L 61/1552	<ul> <li>{Mechanisms for table lookup, e.g. between directories; Directory data structures; Synchronization of directories (information retrieval in file systems G06F 17/30067G06F 16/10; information retrieval in structured data stores G06F 17/30286G06F 16/20)}</li> </ul>
	H04L 61/30	<ul> <li>{Arrangements for managing names, e.g. use of aliases or nicknames (retrieval from the Internet by using information identifiers, e.g. uniform resource locators [URLs] G06F 17/30876G06F 16/955; name-to-address mapping H04L 61/15)}</li> </ul>
	H04L 67/00	{Network-specific arrangements or communication protocols supporting networked applications (message switching systems H04L 51/00; network management protocols H04L 41/00; routing or path finding of packets in data switching networks H04L 45/00; protocols for real-time multimedia communication H04L 65/00; information retrieval G06F 17/30G06F 16/00; services or facilities specially adapted for wireless communication networks H04W 4/00; network structures or processes for video distribution between server and client or between remote clients H04N 21/00; exchange systems providing special services or facilities to subscribers involving telephonic communications H04M 3/42; distributed information systems G06F 9/00, G06F 17/00; lower layer network functionalities which support application layer provisions H04L 12/00)}
		<u>NOTES</u> 1. This group <u>covers</u> :
		<ol> <li>Networking arrangements or communication protocols to support networked applications which occur at the abstract network layers 5 to 7 of the OSI layer model. The higher layers constitute the interface between the network and the computer applications that use the network to communicate.</li> <li>Network-specific aspects of client-server applications as well as of networking arrangements supporting networked/distributed applications, e.g. data transport, scheduling. This group also covers specific networked application layer protocols, e.g. FTP, WAP, HTTP.</li> </ol>
		2 This group does not sover

2. This group does not cover:

		<ol> <li>Distributed applications which are network-agnostic, i.e. distributed information systems for which the network functions are transparent. These field are covered, e.g. by <u>G06F 9/00</u>, <u>G06F 17/00</u>. Data switching network provisions in general and the lower layer network functionalities which support application layer provisions are covered by <u>H04L 12/00</u></li> </ol>
	H04L 67/02	<ul> <li>{involving the use of web-based technology, e.g. hyper text transfer protocol [HTTP] (information retrieval from the Internet G06F 17/30861G06F 16/95)}</li> </ul>
U	H04L 67/10	<ul> <li>{in which an application is distributed across nodes in the network (multiprogramming arrangements <u>G06F 9/46</u>)}</li> </ul>
U	H04L 67/1002	<ul> <li>{for accessing one among a plurality of replicated servers, e.g. load balancing (arrangements or protocols for peer-to-peer networking H04L 67/104; protocols for client-server architectures H04L 67/42; allocation of processing resources to service requests in a distributed system G06F 9/5027; rebalancing the processing load in a distributed system G06F 9/5083; wireless network traffic load balancing H04W 28/08; network load balancing, traffic engineering H04L 47/125; video servers using load balancing strategies H04N 21/23103; error detection or correction of the data by redundancy in hardware G06F 11/16)}</li> </ul>
	H04L 67/1029	<ul> <li>• • {using data related to the state of servers by a load balancer (server selection based on server parameters <u>H04L 67/1008</u>; performance measurement for load balancing <u>G06F 11/3433</u>; information retrieval in structured data stores <u>G06F 17/30286G06F 16/20</u>)}</li> </ul>
	H04L 67/104	<ul> <li>{for peer-to-peer [P2P] networking; Functionalities or architectural details of P2P networks (file transfer, upload, download H04L 67/06; accessing replicated servers H04L 67/1002; presence management H04L 67/24; scheduling provisions H04L 67/32; real-time communications H04L 65/00; information retrieval using distributed database systems</li> <li>G06F 17/30283 G06F 16/27; small scale hierarchical wireless network topologies H04W 84/10; wireless interfaces between terminal devices H04W 92/18; P2P connections between video clients H04N 21/632; P2P connections between video game machines A63F 13/34)}</li> </ul>
	H04L 67/1061	<ul> <li>• • {involving node-based peer discovery mechanisms (access to replicated servers <u>H04L 67/1002</u>; service discovery <u>H04L 67/16</u>; topology discovery for routing <u>H04L 45/02</u>; information retrieval in distributed file systems <u>G06F 17/30067 G06F 16/10</u>; information retrieval in structured data stores, indexing, querying <u>G06F 17/30286 G06F 16/20</u>)}</li> </ul>
	H04L 67/1095	<ul> <li>{for supporting replication or mirroring of data, e.g. scheduling or transport for data synchronisation between network nodes or user terminals or syncML (synchronisation in information retrieval in file systems <u>G06F 17/30067 G06F 16/10</u>; synchronisation in structured data stores <u>G06F 17/30575 G06F 16/27</u>; mass storage redundancy by mirroring for error detection or correction of data <u>G06F 11/2056</u>)}</li> </ul>
	H04L 67/18	<ul> <li>{in which the network application is adapted for the location of the user terminal (wireless application services making use of the location of users or terminals <u>H04W 4/02</u> takes precedence; location based Web retrieval <u>G06F 17/3087G06F 16/9537</u>)}</li> </ul>
U	H04L 67/28	<ul> <li>{for the provision of proxy services, e.g. intermediate processing or storage in the network (network management provisions <u>H04L 41/00</u>; network monitoring provisions <u>H04L 43/00</u>; proxies for network security <u>H04L 63/0281</u>; media manipulation, adaptation or conversion in real-time communications <u>H04L 65/601</u>; protocol conversion <u>H04L 69/08</u>)}</li> </ul>

	H04L 67/2823	<ul> <li>{for conversion or adaptation of application content or format (message adaptation based on network or terminal capabilities <u>H04L 51/06</u>; media manipulation, adaptation or conversion in real-time communications <u>H04L 65/601</u>; protocol conversion <u>H04L 69/08</u>; optimising visualization of content for web browsing <u>G06F 17/30905G06F 16/9577</u>)}</li> </ul>
	H04L 67/2838	<ul> <li>         • {for integrating service provisioning from a plurality of service providers (web site content organization and management G06F 17/3089G06F 16/958)}     </li> </ul>
	H04L 67/2842	<ul> <li>{for storing data temporarily at an intermediate stage, e.g. caching (distributed storage of data in a network <u>H04L 67/1097</u>; browsing optimization of access to content by caching <u>G06F 17/30902G06F 16/9574</u>; addressing of a cache within a hierarchically structured memory system <u>G06F 12/0802</u>; disk caching <u>G06F 12/0866</u>)}</li> </ul>
	H04L 67/2861	<ul> <li>{for providing operational support to end devices by emulation, e.g. when they are unavailable, or by off-loading in the network (techniques for recovering from a failure of a protocol instance or entity <u>H04L 69/40</u>; reactions to server failures by a load balancer <u>H04L 67/1034</u>; departure or maintenance mechanisms in peer-to-peer networks <u>H04L 67/1048</u>; terminal emulation <u>H04L 67/08</u>; disconnected operation in file systems <u>G06F 17/30067 G06F 16/10</u>; emulation or software simulation <u>G06F 9/455</u>; input/output emulation function for peripheral devices <u>G06F 13/105</u>)}</li> </ul>
U	H04L 67/30	<ul> <li>{involving profiles}</li> </ul>
	H04L 67/306	<ul> <li>{User profiles (configuring for programme initiating <u>G06F 9/44505</u>; information retrieval by personalized querying <u>G06F 17/30867G06F 16/9535</u>)}</li> </ul>

# Project: RP0580 (H04N)

U	H04N 1/00127	<ul> <li>{Connection or combination of a still picture apparatus with another apparatus, e.g. for storage, processing or transmission of still picture signals or of information associated with a still picture}</li> </ul>
U	H04N 1/00132	<ul> <li>• {in a digital photofinishing system, i.e. a system where digital photographic images undergo typical photofinishing processing, e.g. printing ordering}</li> </ul>
	H04N 1/00148	• • • {Storage (information retrieval G06F 17/30 G06F 16/00)}
	H04N 1/2166	<ul> <li>{for mass storage, e.g. in document filing systems (information retrieval G06F 17/30G06F 16/00)}</li> </ul>
U	H04N 21/20	<ul> <li>Servers specifically adapted for the distribution of content, e.g. VOD servers; Operations thereof</li> </ul>
U	H04N 21/21	Server components or server architectures
	H04N 21/218	<ul> <li>Source of audio or video content {, e.g. local disk arrays (details of retrieval in video databases G06F 17/30843G06F 16/739)}</li> </ul>
	H04N 21/2183	<ul> <li>Cache memory {(caches in web servers or browsers G06F 17/30902G06F 16/9574; intermediate storage and caching in data networks H04L 29/08801)}</li> </ul>
U	H04N 21/23	<ul> <li>Processing of content or additional data; Elementary server operations; Server middleware</li> </ul>
U	H04N 21/231	<ul> <li>Content storage operation, e.g. caching movies for short term storage, replicating data over plural servers, prioritizing data for deletion</li> </ul>
	H04N 21/23109	<ul> <li>••• {by placing content in organized collections, e.g. EPG data repository (details of retrieval of video data and associated meta data in video databases G06F 17/30843G06F 16/739)}</li> </ul>

	H04N 21/23113	<ul> <li>• • {involving housekeeping operations for stored content, e.g. prioritizing content for deletion because of storage space restrictions (storage management, e.g. defragmentation <u>G06F 3/0604</u>; snloading stored programs <u>G06F 9/445</u>; housekeeping operations in file systems, e.g. deletion policies <u>G06F 17/30067G06F 16/10</u>; buffering arrangements in a network node or in an end terminal in packet networks <u>H04L 49/90</u>)}</li> </ul>
	H04N 21/23116	<ul> <li>••• {involving data replication, e.g. over plural servers (synchronization of replicated data <u>G06F 11/1658</u>; error detection or correction by means of data replication <u>G06F 11/2053</u>; replication in distributed file systems <u>G06F 17/30067G06F 16/10</u>; replication in distributed file systems <u>G06F 17/30283G06F 16/27</u>; replication or mirroring of data in data networks <u>H04L 29/0854</u>)}</li> </ul>
	H04N 21/232	<ul> <li>Content retrieval operation {locally} within server, e.g. reading video streams from disk arrays {(storage management <u>G06F 3/0604;</u> details of querying and searching of video data from a database <u>G06F 17/30843G06F 16/739</u>)}</li> </ul>
	H04N 21/2355	<ul> <li>• • {involving reformatting operations of additional data, e.g. HTML pages (optimising the visualization of content for information retrieval from the Internet G06F 17/30905G06F 16/9577; media manipulation, adaptation or conversion at the source in one way streaming for real-time multimedia communications H04L 29/06489; message adaptation based on network or terminal capabilities in stored and forward packet switching H04L 51/34)}</li> </ul>
U	H04N 21/25	<ul> <li>Management operations performed by the server for facilitating the content distribution or administrating data related to end-users or client devices, e.g. end-user or client device authentication, learning user preferences for recommending movies {(maintenance or administration in data networks <u>H04L 41/00</u>)}</li> </ul>
	H04N 21/251	<ul> <li>• • {Learning process for intelligent management, e.g. learning user preferences for recommending movies (details of learning user preferences for the retrieval of video data in a video database <u>G06F 17/30843G06F 16/739</u>; computer systems using learning methods <u>G06N 3/08</u>)}</li> </ul>
U	H04N 21/258	Client or end-user data management, e.g. managing client capabilities, user preferences or demographics, processing of multiple end-users preferences to derive collaborative data {(arrangements for services using the result on the distributing side of broadcast systems <u>H04H 60/66</u> ; data switching network applications involving user or terminal profiles <u>H04L 29/08918</u> )}
U	H04N 21/25808	<ul> <li>• • {Management of client data (protocols involving terminal profiles for network applications in communication control or processing <u>H04L 29/08927</u>)}</li> </ul>
	H04N 21/25825	<ul> <li>•••• {involving client display capabilities, e.g. screen resolution of a mobile phone (optimising the visualisation of content during browsing in the Internet G06F 17/30905G06F 16/9577; processing of terminal status or physical abilities in wireless networks H04W 8/22; authentication in wireless network security H04W 12/06)}</li> </ul>
	H04N 21/25841	•••• {involving the geographical location of the client (retrieval from the Internet by querying based on geographical locations G06F 17/3087G06F 16/9537; arrangements for identifying locations of receiving stations in broadcast systems H04H 60/51; protocols in which the network application is adapted for the location of the user terminal in communication control or processing H04L 29/08657; services making use of the location of users or terminals in wireless networks H04W 4/02; locating users or terminals in wireless networks H04W 64/00)}

U	H04N 21/25866	<ul> <li>• • • {Management of end-user data (customer care in data networks <u>H04L 41/5077</u>)}</li> </ul>
	H04N 21/25891	<ul> <li>••• {being end-user preferences (retrieval of video data in a video database based on user preferences G06F 17/30843G06F 16/739; arrangements for recognizing users' preferences H04H 60/46; protocols involving user profiles for network applications in communication control or processing H04L 29/08936; processing of user preferences or user profiles in wireless networks H04W 8/18)}</li> </ul>
U	H04N 21/262	<ul> <li>Content or additional data distribution scheduling, e.g. sending additional data at off-peak times, updating software modules, calculating the carousel transmission frequency, delaying a video stream transmission, generating play-lists {(scheduling strategies for dispatcher in multiprogramming arrangements G06F 9/4881; arrangements for scheduling broadcast services or broadcast-related services H04H 60/06; protocols for scheduling and organising the servicing of requests, whereby a time schedule is established for servicing the requests in network applications in communication control or processing H04L 29/08963; flow control in packet networks H04L 47/10)}</li> </ul>
	H04N 21/26258	<ul> <li>• • {for generating a list of items to be played back in a given order, e.g. playlist, or scheduling item distribution according to such list (retrieval of multimedia data based on playlists G06F 17/30017G06F 16/40)}</li> </ul>
U	H04N 21/266	<ul> <li>Channel or content management, e.g. generation and management of keys and entitlement messages in a conditional access system, merging a VOD unicast channel into a multicast channel</li> </ul>
	H04N 21/2668	<ul> <li>Creating a channel for a dedicated end-user group, e.g. insertion of targeted commercials based on end-user profiles {(information retrieval from the Internet by querying with filtering and personalisation <u>G06F 17/30867 G06F 16/9535</u>; arrangements for replacing or switching information during the broadcast <u>H04H 20/10</u>; push services over packet- switching network <u>H04L 12/1859</u>; adaptation of message content in packet-switching networks <u>H04L 51/063</u>)}</li> </ul>
U	H04N 21/27	Server based end-user applications
	H04N 21/278	<ul> <li>Content descriptor database or directory service for end-user access {(details of content or meta data based information retrieval of video data in video databases G06F 17/30843G06F 16/739)}</li> </ul>
	H04N 21/432	<ul> <li>Content retrieval operation from a local storage medium, e.g. hard-disk {(details of retrieval of video data and associated meta data in video databases G06F 17/30843G06F 16/739)}</li> </ul>
U	H04N 21/433	<ul> <li>Content storage operation, e.g. storage operation in response to a pause request, caching operations</li> </ul>
	H04N 21/4332	<ul> <li>• • {by placing content in organized collections, e.g. local EPG data repository (interfaces, Database management systems or updating for information retrieval G06F 17/30002G06F 16/23; details of retrieval of video data and associated meta data in video database G06F 17/30843G06F 16/739)}</li> </ul>
	H04N 21/4335	<ul> <li>Housekeeping operations, e.g. prioritizing content for deletion because of storage space restrictions {(storage management, e.g. defragmentation <u>G06F 3/0604;</u> unloading stored programs <u>G06F 9/445;</u> storage management in file systems <u>G06F 17/30067<u>G06F 16/10</u>; buffering arrangements in a network node or in an end terminal in packet networks <u>H04L 49/90</u>)}</u></li> </ul>
U	H04N 21/435	<ul> <li>Processing of additional data, e.g. decrypting of additional data, reconstructing software from modules extracted from the transport stream</li> </ul>

	H04N 21/4355	<ul> <li>• • {involving reformatting operations of additional data, e.g. HTML pages on a television screen (optimising the visualization of content for information retrieval from the Internet <u>G06F 17/30905 G06F 16/9577</u>; media manipulation, adaptation or conversion at the destination in one way streaming for real-time multimedia communications <u>H04L 29/06496</u>; adaptation of message content in packet-switching networks <u>H04L 51/066</u>)}</li> </ul>
	H04N 21/442	<ul> <li>Monitoring of processes or resources, e.g. detecting the failure of a recording device, monitoring the downstream bandwidth, the number of times a movie has been viewed, the storage space available from the internal hard disk {(arrangements for monitoring broadcast services or broadcast-related services H04H 60/29; arrangements for identifying or recognising characteristics with a direct linkage to broadcast information H04H 60/35; monitoring of user activities for profile generation for accessing a video database G06F 17/30843G06F 16/739; monitoring in wireless networks H04W 24/00)}</li> </ul>
	H04N 21/44204	<ul> <li>• • • {Monitoring of content usage, e.g. the number of times a movie has been viewed, copied or the amount which has been watched (monitoring of user activities for profile generation for accessing a video database <u>G06F 17/30843G06F 16/739</u>; protecting generic digital content where the protection is independent of the precise nature of the content <u>G06F 21/10</u>; arrangements for monitoring the use made of the broadcast services in broadcast systems <u>H04H 60/31</u>)}</li> </ul>
U	H04N 21/44213	<ul> <li>• • {Monitoring of end-user related data (arrangements for monitoring the users' behaviour or opinions in broadcast systems <u>H04H 60/33</u>)}</li> </ul>
	H04N 21/44222	<ul> <li>•••• {Monitoring of user selections, e.g. selection of programs, purchase activity (monitoring of user selections in data processing systems <u>G06F 11/34</u>; monitoring of user activities for profile generation for accessing a video database <u>G06F 17/30843G06F 16/739</u>; tracking the activity of the end-user <u>H04L 29/08675</u>; arrangements for monitoring the user's behaviour or opinions in broadcast systems <u>H04H 60/33</u>)}</li> </ul>
U	H04N 21/45	<ul> <li>Management operations performed by the client for facilitating the reception of or the interaction with the content or administrating data related to the end-user or to the client device itself, e.g. learning user preferences for recommending movies, resolving scheduling conflicts</li> </ul>
U	H04N 21/4508	<ul> <li>• • {Management of client or end-user data}</li> </ul>
	H04N 21/4524	<ul> <li>• • • {involving the geographical location of the client (retrieval from the Internet by querying based on geographical locations G06F 17/3087 G06F 16/9537; systems specially adapted for using geographical information in broadcast systems H04H 60/70; protocols in which the network application is adapted for the location of the user terminal in communication control or processing H04L 29/08657; services making use of the location of users or terminals in wireless networks H04W 4/02; locating users or terminals in wireless networks H04W 64/00)}</li> </ul>
	H04N 21/4532	<ul> <li>• • {involving end-user characteristics, e.g. viewer profile, preferences (monitoring of user activities for profile generation for accessing a video database <u>G06F 17/30843G06F 16/739</u>; protocols involving user profiles for network applications in communication control or processing <u>H04L 29/08936</u>; processing of user preferences or user profiles in wireless networks <u>H04W 8/18</u>)}</li> </ul>
U	H04N 21/462	<ul> <li>Content or additional data management, e.g. creating a master electronic program guide from data received from the Internet and a Head-end, controlling the complexity of a video stream by scaling the resolution or bit- rate based on the client capabilities</li> </ul>

	H04N 21/4622	<ul> <li>• • • {Retrieving content or additional data from different sources, e.g. from a broadcast channel and the Internet (web site content organization and management for information retrieval from the Internet <u>G06F 17/3089G06F 16/958</u>; transmission by internet of broadcast information <u>H04H 60/82</u>; stock exchange data over packet-switching network <u>H04L 12/1804</u>; push services including data channel over packet- switching network <u>H04L 12/1859</u>)}</li> </ul>
	H04N 21/472	<ul> <li>End-user interface for requesting content, additional data or services; End-user interface for interacting with content, e.g. for content reservation or setting reminders, for requesting event notification, for manipulating displayed content {(end-user interfaces for retrieving video data from a database G06F 17/30843G06F 16/739; content on demand in one way streaming for real-time multimedia communications H04L 29/06462)}</li> </ul>
U	H04N 21/4722	•••• for requesting additional data associated with the content
	H04N 21/4725	<ul> <li>• • • using interactive regions of the image, e.g. hot spots {(details of information retrieval from the Internet by using URLs</li> <li>G06F 17/30876G06F 16/955; processing chained hypermedia data for information retrieval G06F 17/30014G06F 16/94)}</li> </ul>
U	H04N 21/475	<ul> <li>End-user interface for inputting end-user data, e.g. personal identification number [PIN], preference data</li> </ul>
	H04N 21/4755	<ul> <li>• • {for defining user preferences, e.g. favourite actors or genre (retrieval personalisation and generation of user profiles for the retrieval of video data G06F 17/30843G06F 16/739; data switching network applications using user profiles H04L 29/08936)}</li> </ul>
	H04N 21/4828	<ul> <li>• • • {for searching program descriptors (retrieval of video data G06F 17/30843 G06F 16/739)}</li> </ul>
U	H04N 21/80	<ul> <li>Generation or processing of content or additional data by content creator independently of the distribution process; Content per se {(arrangements for generating broadcast information H04H 60/02)}</li> </ul>
U	H04N 21/85	<ul> <li>Assembly of content; Generation of multimedia applications</li> </ul>
U	H04N 21/854	
-	H04N 21/8543	<ul> <li>using a description language, e.g. Multimedia and Hypermedia information coding Expert Group [MHEG], eXtensible Markup Language [XML] {(information retrieval of semistructured data, the underlying structure being taken into account, e.g. mark-up language structure data G06F 17/30908G06F 16/80)}</li> </ul>
	H04N 21/8549	<ul> <li>Creating video summaries, e.g. movie trailer {(retrieval in video databases by using presentations in form of a video summary G06F 17/30843G06F 16/739)}</li> </ul>
U	H04N 21/858	<ul> <li>Linking data to content, e.g. by linking an URL to a video object, by creating a hotspot</li> </ul>
	H04N 21/8586	<ul> <li>• • {by using a URL (processing chained hypermedia data for information retrieval G06F 17/30014G06F 16/94; information retrieval from the Internet by using URLs G06F 17/30876G06F 16/955; URL in broadcast information H04H 20/93; protocols for network applications involving the use of web-based technology H04L 29/0809)}</li> </ul>
Pro	oject: N/A (A61K)	
Ν	A61K 33/241	Lead; Compounds thereof
••		WARNING
		Group <u>A61K 33/241</u> is incomplete pending reclassification of documents from group <u>A61K 33/24</u> .

		Groups <u>A61K 33/24</u> and <u>A61K 33/241</u> should be considered in order to perform a complete search.
Ν	A61K 33/242	Gold; Compounds thereof
		WARNING
		Group <u>A61K 33/242</u> is incomplete pending reclassification of documents from group <u>A61K 33/24</u> .
		Groups <u>A61K 33/24</u> and <u>A61K 33/242</u> should be considered in order to perform a complete search.
Ν	A61K 33/243	Platinum; Compounds thereof
		WARNING
		Group <u>A61K 33/243</u> is incomplete pending reclassification of documents from group <u>A61K 33/24</u> .
		Groups <u>A61K 33/24</u> and <u>A61K 33/243</u> should be considered in order to perform a complete search.
Ν	A61K 33/244	<ul> <li>Lanthanides; Compounds thereof (medicinal preparations containing radioactive lanthanides for use in therapy or testing <u>in vivo</u> <u>A61K 51/00</u>)</li> </ul>
		WARNING
		Group <u>A61K 33/244</u> is incomplete pending reclassification of documents from group <u>A61K 33/24</u> .
		Groups <u>A61K 33/24</u> and <u>A61K 33/244</u> should be considered in order to perform a complete search.
U	A61K 39/00	Medicinal preparations containing antigens or antibodies (materials for
		immunoassay <u>G01N 33/53</u> )
		immunoassay <u>G01N 33/53</u> ) <u>NOTES</u>
		<u>NOTES</u> 1. Groups <u>A61K 39/002</u> - <u>A61K 39/295</u> cover preparations containing protozoa,
		<ul> <li><u>NOTES</u></li> <li>1. Groups <u>A61K 39/002</u> - <u>A61K 39/295</u> cover preparations containing protozoa, bacteria, viruses, or subunits thereof, e.g. membrane parts.</li> <li>2. Preparation of antigen or antibody compositions is also classified in subclass</li> </ul>
		<ol> <li><u>NOTES</u></li> <li>Groups <u>A61K 39/002</u> - <u>A61K 39/295</u> cover preparations containing protozoa, bacteria, viruses, or subunits thereof, e.g. membrane parts.</li> <li>Preparation of antigen or antibody compositions is also classified in subclass <u>C12N</u>, if the step of cultivating the microorganism is of interest.</li> <li>Documents relating to new peptides, e.g. enzymes, or new DNA or RNA encoding for peptides and their use in medicinal preparations are classified in subclass <u>C07K</u> or in group <u>C12N 9/00</u> according to the peptides, with the</li> </ol>
		<ol> <li><u>NOTES</u></li> <li>Groups <u>A61K 39/002</u> - <u>A61K 39/295</u> cover preparations containing protozoa, bacteria, viruses, or subunits thereof, e.g. membrane parts.</li> <li>Preparation of antigen or antibody compositions is also classified in subclass <u>C12N</u>, if the step of cultivating the microorganism is of interest.</li> <li>Documents relating to new peptides, e.g. enzymes, or new DNA or RNA encoding for peptides and their use in medicinal preparations are classified in subclass <u>C07K</u> or in group <u>C12N 9/00</u> according to the peptides, with the appropriate indexing codes relating to their medical uses.</li> <li>Documents relating to antibodies or DNA or RNA encoding for antibodies and their use in medicinal preparations are classified in group <u>C07K 16/00</u> or in group <u>C12N 9/0002</u> according to the antibodies, with the appropriate indexing codes</li> </ol>
		<ul> <li>NOTES</li> <li>1. Groups <u>A61K 39/002</u> - <u>A61K 39/295</u> cover preparations containing protozoa, bacteria, viruses, or subunits thereof, e.g. membrane parts.</li> <li>2. Preparation of antigen or antibody compositions is also classified in subclass <u>C12N</u>, if the step of cultivating the microorganism is of interest.</li> <li>3. Documents relating to new peptides, e.g. enzymes, or new DNA or RNA encoding for peptides and their use in medicinal preparations are classified in subclass <u>C07K</u> or in group <u>C12N 9/00</u> according to the peptides, with the appropriate indexing codes relating to their medical uses.</li> <li>4. Documents relating to antibodies or DNA or RNA encoding for antibodies and their use in medicinal preparations are classified in group <u>C12N 9/0002</u> according to the antibodies, with the appropriate indexing codes relating to the antibodies, with the appropriate indexing codes relating to the antibodies of DNA or RNA encoding for antibodies and their use in medical uses.</li> <li>5. Documents relating to new therapeutical uses of antibodies or DNA or RNA encoding for antibodies are classified in group <u>C07K 16/00</u> or in group <u>C12N 9/0002</u> according to the antibodies, with the appropriate indexing codes relating to their medical uses.</li> </ul>

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A61K 39/0011 •• {Cancer antigens}

## WARNING

		WARNING
		Group A61K 39/0011 is incomplete pending reclassification of documents
		from group <u>A61K 38/1764</u> . Group <u>A61K 39/0011</u> is also impacted
		by reclassification into groups A61K 39/001102, A61K 39/001103,
		<u>A61K 39/001104, A61K 39/001106, A61K 39/001107, A61K 39/001108,</u>
		A61K 39/001109, A61K 39/00111, A61K 39/001111, A61K 39/001112,
		<u>A61K 39/001113, A61K 39/001114, A61K 39/001116, A61K 39/001117,</u>
		<u>A61K 39/001118, A61K 39/001119, A61K 39/00112, A61K 39/001121,</u>
		<u>A61K 39/001122, A61K 39/001124, A61K 39/001126, A61K 39/001128,</u>
		<u>A61K 39/001129, A61K 39/00113, A61K 39/001131, A61K 39/001132,</u>
		<u>A61K 39/001133, A61K 39/001134, A61K 39/001135, A61K 39/001136, A61K 39/001146, A61K 39/001146, A61K 39/001146, A61K 39/001146, A61K 39/00114</u>
		<u>A61K 39/001138, A61K 39/001139, A61K 39/00114, A61K 39/001141,</u>
		<u>A61K 39/001142, A61K 39/001144, A61K 39/001148, A61K 39/001149,</u>
		A61K 39/00115, A61K 39/001151, A61K 39/001152, A61K 39/001153,
		<u>A61K 39/001154, A61K 39/001156, A61K 39/001157, A61K 39/001158,</u>
		<u>A61K 39/001159, A61K 39/00116, A61K 39/001161, A61K 39/001162,</u>
		<u>A61K 39/001163, A61K 39/001164, A61K 39/001166, A61K 39/001168,</u>
		<u>A61K 39/001169, A61K 39/00117, A61K 39/001171, A61K 39/001172,</u>
		<u>A61K 39/001173, A61K 39/001174, A61K 39/001176, A61K 39/001178,</u>
		<u>A61K 39/00118, A61K 39/001181, A61K 39/001182, A61K 39/001184,</u>
		<u>A61K 39/001186, A61K 39/001188, A61K 39/001189, A61K 39/00119,</u>
		<u>A61K 39/001191, A61K 39/001192, A61K 39/001193, A61K 39/001194,</u>
		<u>A61K 39/001195, A61K 39/001196, A61K 39/001197, A61K 39/001198,</u> A61K 2039/80, A61K 2039/804, A61K 2039/812, A61K 2039/82,
		<u>A61K 2039/828, A61K 2039/836, A61K 2039/844, A61K 2039/852,</u>
		<u>A61K 2039/86, A61K 2039/868, A61K 2039/876, A61K 2039/884</u> , and
		<u>A61K 2039/892</u>
		All groups listed in this Warning should be considered in order to perform a
		complete search.
U	A61K 39/001102	<ul> <li>• • {Receptors, cell surface antigens or cell surface determinants}</li> </ul>
		WARNING
		Groups A61K 39/001102 -A61K 39/001198 are incomplete pending
		reclassification of documents from group A61K 39/0011.
		Groups A61K 38/1764, A61K 39/0011, and
		A61K 39/001102-A61K 39/001198 and A61K 39/001102 should be
		considered in order to perform a complete search.
		considered in order to perform a complete search.
U	A61K 39/001111	· · · {Immunoglobulin superfamily}
	A61K 39/001113	• • • • {CD22, BL-CAM, siglec-2, sialic acid- binding Ig-related lectin 2-}
	A61K 39/001116	• • • • {Receptors for cytokines-}
	A61K 39/001126	· · · · {CD38} not IgG}
	A61K 39/001128	••••{CD44 <mark>}</mark> not IgG <mark>}</mark>
U	A61K 39/001154	• • • {Enzymes}
	A61K 39/001163	• • • • {Phosphatases-}
	A61K 39/001164	• • • • {GTPases, e.g. Ras, Rho-}
	A61K 39/00119	<ul> <li>• • {Melanoma antigens-}</li> </ul>

### Project: N/A (A62D)

A62D 3/00

# Processes for making harmful chemical substances harmless or less harmful, by effecting a chemical change in the substances (consuming noxious gases by combustion F23G 7/06)

### NOTES

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- 1. This group does not cover:
  - chemical or physico-chemical type processes where eradicating or diminishing the dangerousness of harmful chemical substances produces useful products, e.g. cement. These types of processes are covered by the appropriate subclass for making the specific product. However, in situations where processes for making products include a subset of process steps with eradicating or diminishing the dangerousness of a harmful chemical substance as its fundamental goal, and this subset is in itself novel and unobvious, this subset is covered by group <u>A62D 3/00</u>.
  - This group does not cover:
  - Chemical or biological purification of smoke or fumes, covered by B01D 53/34
  - Disposal of solid waste, destroying solid waste or transforming solid waste into something useful or harmless, covered by B09B
  - Chemical reclamation of contaminated soil, covered by B09C 1/08
  - Treatment of waste water, sewage or sludge, covered by C02F
  - Incorporating waste or residues in a glass or vitreous matrix covered by C03C 1/00
  - Incorporating waste or residues in cement or cementitious compositions, covered by C04B 7/24
  - Use of waste materials as filler for mortars, concrete or the like covered by C04B 18/04
  - Destructive distillation, covered by C10B 53/00
  - Obtaining metals from residues or scrap, covered by C22B
  - Consuming waste by combustion, covered by F23G
  - Treatment of radioactively-contaminated waste, covered by G21F 9/00

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2. In this group the following term is used with the meaning indicated: "harmful chemical substances" are chemical waste substances which are too hazardous or toxic to be discarded in an ordinary municipal landfill.

3. In this group, the first place priority rule is applied, i.e. at each hierarchical level, in the absence of an indication to the contrary, classification is made in the first appropriate place.

4. In this group, it is desirable to add the indexing code(s) of group <u>A62D 2101/00</u> relating to the nature of the harmful chemical substance.

5. {This group covers

- Processes for combatting harmful chemical substances or agents or materials containing harmful chemical agents. These processes can be chemical or physico-chemical, e.g. use of special chemical reagents for chemical fixing, and result in the decomposition or transformation of the agents in harmless or less harmful substances, because of the change in its chemical constitution. These processes can comprise the step of dissolving or dispersing the hazardous substances in water for the purpose of treating them or the step of producing a gaseous product from a nongaseous hazardous substance.
- Treatment of specific hazardous substances in sludge, e.g. residue from industrial processes, with the exception of sludge from (municipal) sewage treatment.
- }
- 6. {This group does not cover:

- Chemical or biological purification of smoke or fumes, covered by B01D 53/34
- Disposal of solid waste, destroying solid waste or transforming solid waste into something useful or harmless, covered by <u>B09B</u>
- Chemical reclamation of contaminated soil, covered by B09C 1/08
- Treatment of waste water, sewage or sludge, covered by <u>C02F</u>
- Incorporating waste or residues in a glass or vitreous matrix covered by <u>C03C 1/00</u>
- Incorporating waste or residues in cement or cementitious compositions, covered by <u>C04B 7/24</u>
- Use of waste materials as filler for mortars, concrete or the like covered by <u>C04B 18/04</u>
- Destructive distillation, covered by <u>C10B 53/00</u>
- Obtaining metals from residues or scrap, covered by <u>C22B</u>
- Consuming waste by combustion, covered by <u>F23G</u>
- Treatment of radioactively-contaminated waste, covered by <u>G21F 9/00</u>

# Project: N/A (A63F)

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U A63F 7/00 Indoor games using small moving playing bodies, e.g. balls, discs or blocks (board games, raffle games <u>A63F 3/00</u>; roulette games <u>A63F 5/00</u>; miniature bowling games <u>A63D 3/00</u>; bagatelle or similar games <u>A63D 13/00</u>; billiards, pocket billiards <u>A63D 15/00</u>)

A63F 7/22 • in which the playing bodies are projected through the air {Accessories(not used, see subgroups of A63F 7/06)}; Details

## Project: N/A (B08B)

U	B08B 9/00	Cleaning hollow articles by methods or apparatus specially adapted thereto ( <u>B08B 3/12</u> , <u>B08B 6/00</u> take precedence)
U	B08B 9/08	Cleaning containers, e.g. tanks
U	B08B 9/0839	<ul> <li>• {Cleaning milk churns (<u>B08B 9/0804</u>, <u>B08B 9/20</u> take precedence)}</li> </ul>
	B08B 9/0843	<ul> <li>• • {for large numbers of milk chrunschurns}</li> </ul>

## Project: N/A (F16B)

F16B 5/00 Joining sheets or plates {, e.g. panels,-} to one another or to strips or bars parallel to them ({F16B 17/00 takes precedence;} by sticking together F16B 11/00; dowel connections F16B 13/00; pins, including deformable elements F16B 19/00; covering of walls E04F 13/00; fastening signs, plates, panels or boards to a supporting structure, fastening readily-detachable elements, e.g. letters to signs, plates, panels, or boards, G09F 7/00) Project: N/A (G06F) G06F 19/70 U · {Chemoinformatics, i.e. data processing methods or systems for the retrieval, analysis, visualisation, or storage of physicochemical or structural data of chemical compounds (in silico methods of screening virtual chemical libraries C40B 30/02; in silico or mathematical methods of creating virtual chemical libraries C40B 50/02; computer-aided design per se G06F 17/50; bioinformatics G06F 19/10; processing of 2D or 3D images G06T)} G06F 19/705

F 19/705
 • {for database search of chemical structures, e.g. full structure search, substructure search, similarity search, pharmacophore search, 3D structure search (information retrieval in general G06F 17/30 G06F17/30)}