

EUROPEAN PATENT OFFICE  
U.S. PATENT AND TRADEMARK OFFICE

CPC NOTICE OF CHANGES 1651

DATE: AUGUST 1, 2024

PROJECT MP12188

The following classification changes will be effected by this Notice of Changes:

<u>Action</u>	<u>Subclass</u>	<u>Group(s)</u>
<b>SCHEME:</b>		
Titles Changed:	C01B	2203/00
	C02F	2201/008, 2201/009, 2201/4619
	C03B	2215/22
	C04B	2111/00025, 2111/00577, 2111/00827, 2111/1081, 2111/2069, 2111/2076, 2235/3418, 2235/447, 2235/5296
	C07C	2527/18
	C08J	2331/00, 2337/00, 2345/00, 2351/00, 2361/00, 2361/20, 2367/00, 2371/00, 2377/00, 2383/10, 2393/00, 2397/00, 2431/00, 2437/00, 2445/00, 2451/00, 2461/00, 2461/20, 2467/00, 2471/00, 2477/00, 2483/10, 2493/00, 2497/00
	C10J	2200/06
	C10M	2201/06, 2201/08, 2201/082, 2201/084, 2207/28, 2209/00, 2215/02, 2219/022, 2221/02, 2227/08
	C12N	2310/18, 2500/10, 2500/22, 2500/30, 2500/40, 2500/70, 2501/30, 2501/33, 2501/72, 2533/30
	C12Q	2304/00
	G01N	2333/181, 2333/3156, 2333/575, 2333/70575, 2333/70578, 2333/72, 2400/02, 2400/38, 2405/00, 2496/25, 2496/45, 2800/24
	G01V	2210/20, 2210/30, 2210/34, 2210/40, 2210/50
	G03G	2215/0426, 2221/1648
	G03H	2001/0016, 2001/0204, 2001/022, 2001/0224, 2001/0232, 2001/0436, 2001/0452, 2001/188, 2210/22, 2222/55, 2223/21, 2224/06, 2250/10, 2260/50, 2260/63
	G06F	2207/382
	G06Q	2220/00
	G10H	2210/00, 2210/005, 2210/021, 2210/031, 2210/071, 2210/076, 2210/115, 2210/161, 2210/191, 2210/195, 2210/201, 2210/205, 2210/211, 2210/221, 2210/225, 2210/265, 2210/295, 2210/311, 2210/315, 2210/325, 2210/335, 2210/341, 2210/346, 2210/375, 2210/381, 2210/385, 2210/395, 2210/431, 2210/441, 2210/461, 2210/471, 2210/506,

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		2210/511, 2210/515, 2210/531, 2210/541, 2210/555, 2210/571, 2210/586, 2220/005, 2220/015, 2220/021, 2220/081, 2220/086, 2220/096, 2220/111, 2220/116, 2220/121, 2220/135, 2220/161, 2220/165, 2220/175, 2220/185, 2220/221, 2220/236, 2220/251, 2220/265, 2220/271, 2220/305, 2220/336, 2220/341, 2220/365, 2220/371, 2220/391, 2220/395, 2220/401, 2220/405, 2220/411, 2220/565, 2230/015, 2230/021, 2230/075, 2230/105, 2230/121, 2230/155, 2230/181, 2230/185, 2230/191, 2230/195, 2230/201, 2230/211, 2230/251, 2230/281, 2240/016, 2240/046, 2240/066, 2240/081, 2240/091, 2240/151, 2240/155, 2240/161, 2240/171, 2240/211, 2240/251, 2240/295, 2240/325, 2250/00, 2250/005, 2250/071, 2250/075, 2250/091, 2250/111, 2250/115, 2250/121, 2250/145, 2250/191, 2250/211, 2250/221, 2250/225, 2250/271, 2250/305, 2250/315, 2250/365, 2250/401, 2250/431, 2250/435, 2250/441, 2250/445, 2250/451, 2250/461, 2250/465, 2250/471, 2250/481, 2250/501, 2250/505, 2250/531, 2250/541, 2250/561, 2250/565, 2250/575, 2250/615, 2250/631
	G10K	2210/107, 2210/112
<b>DEFINITIONS:</b>		
Definitions New:	C01B	2203/00
	C02F	2201/008, 2201/009, 2201/4619
	C03B	2215/22
	C04B	2111/00025, 2111/00577, 2111/00827, 2111/1081, 2111/2069, 2111/2076
	C07C	2527/18
	C08J	2331/00, 2337/00, 2345/00, 2351/00, 2361/00, 2361/20, 2367/00, 2371/00, 2377/00, 2383/10, 2393/00, 2397/00, 2431/00, 2437/00, 2445/00, 2451/00, 2461/00, 2461/20, 2467/00, 2471/00, 2477/00, 2483/10, 2493/00, 2497/00
	C10J	2200/06
	C10M	2201/06, 2201/08, 2201/082, 2201/084, 2207/28, 2209/00, 2215/02, 2219/022, 2221/02, 2227/08
	C12N	2310/18, 2500/10, 2500/22, 2500/30, 2500/40, 2500/70, 2501/30, 2501/33, 2501/72, 2533/30
	C12Q	2304/00
	G01N	2333/181, 2333/3156, 2333/575, 2333/70575, 2333/70578, 2333/72, 2400/02, 2400/38, 2405/00, 2496/25, 2496/45, 2800/24
	G01V	2210/20, 2210/30, 2210/34, 2210/40, 2210/50

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	G03G	2215/0426, 2221/1648
	G03H	2001/0016, 2001/0204, 2001/022, 2001/0224, 2001/0232, 2001/0436, 2001/0452, 2001/188, 2210/22, 2222/55, 2223/21, 2224/06, 2250/10, 2260/50, 2260/63
	G06F	2207/382
	G10H	2210/00, 2210/005, 2210/021, 2210/031, 2210/071, 2210/076, 2210/115, 2210/161, 2210/191, 2210/195, 2210/201, 2210/205, 2210/211, 2210/221, 2210/225, 2210/265, 2210/295, 2210/311, 2210/315, 2210/325, 2210/335, 2210/341, 2210/346, 2210/375, 2210/381, 2210/385, 2210/395, 2210/431, 2210/441, 2210/461, 2210/471, 2210/506, 2210/511, 2210/515, 2210/531, 2210/541, 2210/555, 2210/571, 2210/586, 2220/005, 2220/015, 2220/021, 2220/081, 2220/086, 2220/096, 2220/111, 2220/116, 2220/121, 2220/135, 2220/161, 2220/165, 2220/175, 2220/185, 2220/221, 2220/236, 2220/251, 2220/265, 2220/271, 2220/305, 2220/336, 2220/341, 2220/365, 2220/371, 2220/391, 2220/395, 2220/401, 2220/405, 2220/411, 2220/565, 2230/015, 2230/021, 2230/075, 2230/105, 2230/121, 2230/155, 2230/181, 2230/185, 2230/191, 2230/195, 2230/201, 2230/211, 2230/251, 2230/281, 2240/016, 2240/046, 2240/066, 2240/081, 2240/091, 2240/151, 2240/155, 2240/161, 2240/171, 2240/211, 2240/251, 2240/295, 2240/325, 2250/00, 2250/005, 2250/071, 2250/075, 2250/091, 2250/111, 2250/115, 2250/121, 2250/145, 2250/191, 2250/211, 2250/221, 2250/225, 2250/271, 2250/305, 2250/315, 2250/365, 2250/401, 2250/431, 2250/435, 2250/441, 2250/445, 2250/451, 2250/461, 2250/465, 2250/471, 2250/481, 2250/501, 2250/505, 2250/531, 2250/541, 2250/561, 2250/565, 2250/575, 2250/615, 2250/631
	G10K	2210/107, 2210/112
Definitions Modified:	C04B	2235/3418, 2235/447
	G06Q	2220/00

**No other subclasses/groups are impacted by this Notice of Changes.**

**This Notice of Changes includes the following [Check the ones included]:**

1. CLASSIFICATION SCHEME CHANGES

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- A. New, Modified or Deleted Group(s)
- B. New, Modified or Deleted Warning(s)
- C. New, Modified or Deleted Note(s)
- D. New, Modified or Deleted Guidance Heading(s)

2. DEFINITIONS

- A. New or Modified Definitions (Full definition template)
- B. Modified or Deleted Definitions (Definitions Quick Fix)

- 3.  REVISION CONCORDANCE LIST (RCL)
- 4.  CHANGES TO THE CPC-TO-IPC CONCORDANCE LIST (CICL)
- 5.  CHANGES TO THE CROSS-REFERENCE LIST (CRL)

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## 1. CLASSIFICATION SCHEME CHANGES

A. New, Modified or Deleted Group(s)**SUBCLASS C01B - NON-METALLIC ELEMENTS; COMPOUNDS THEREOF; {METALLOIDS OR COMPOUNDS THEREOF NOT COVERED BY SUBCLASS C01C}**

<u>Type*</u>	<u>Symbol</u>	<u>Indent Level Number of dots (e.g. 0, 1, 2)</u>	<u>Title</u> <u>“CPC only” text should normally be enclosed in {curly brackets}**</u>	<u>Transferred to<sup>#</sup></u>
M	C01B 2203/00	0	Integrated processes for the production of hydrogen or synthesis gas	

**SUBCLASS C02F - TREATMENT OF WATER, WASTE WATER, SEWAGE, OR SLUDGE**

<u>Type*</u>	<u>Symbol</u>	<u>Indent Level Number of dots (e.g. 0, 1, 2)</u>	<u>Title</u> <u>“CPC only” text should normally be enclosed in {curly brackets}**</u>	<u>Transferred to<sup>#</sup></u>
M	C02F 2201/008	1	Mobile apparatus and plants, e.g. mounted on a vehicle	
M	C02F 2201/009	1	Apparatus with independent power supply, e.g. solar cells, windpower or fuel cells	
M	C02F 2201/4619	4	Supplying gas to the electrolyte	

**SUBCLASS C03B - MANUFACTURE, SHAPING, OR SUPPLEMENTARY PROCESSES**

<u>Type*</u>	<u>Symbol</u>	<u>Indent Level Number of dots (e.g. 0, 1, 2)</u>	<u>Title</u> <u>“CPC only” text should normally be enclosed in {curly brackets}**</u>	<u>Transferred to<sup>#</sup></u>
M	C03B 2215/22	4	Non-oxide ceramics	

**SUBCLASS C04B - LIME, MAGNESIA; SLAG; CEMENTS; COMPOSITIONS THEREOF**

<u>Type*</u>	<u>Symbol</u>	<u>Indent Level Number of dots (e.g. 0, 1, 2)</u>	<u>Title</u> <u>“CPC only” text should normally be enclosed in {curly brackets}**</u>	<u>Transferred to<sup>#</sup></u>
M	C04B 2111/00025	1	{Aspects relating to the protection of the health, e.g. materials containing special additives to afford skin protection}	
M	C04B 2111/00577	3	{applied by spraying}	
M	C04B 2111/00827	3	{Photocatalysts}	
M	C04B 2111/1081	3	{Chromium VI, e.g. for avoiding chromium eczema}	

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M	C04B 2111/2069	3	{Self-cleaning materials, e.g. using lotus effect}	
M	C04B 2111/2076	3	{Discolouring resistant materials}	
M	C04B 2235/3418	4	Silicon oxide, silicic acids or oxide forming salts thereof, e.g. silica sol, fused silica, silica fume, cristobalite, quartz or flint	
M	C04B 2235/447	4	Phosphates or phosphites, e.g. orthophosphate or hypophosphite	
M	C04B 2235/5296	4	with a defined aspect ratio, e.g. indicating sphericity	

**SUBCLASS C07C - ACYCLIC OR CARBOCYCLIC COMPOUNDS**

<u>Type*</u>	<u>Symbol</u>	<u>Indent Level Number of dots (e.g. 0, 1, 2)</u>	<u>Title</u> “CPC only” text should normally be enclosed in {curly brackets}**	<u>Transferred to#</u>
M	C07C 2527/18	3	with metals	

**SUBCLASS C08J - WORKING-UP; GENERAL PROCESSES OF COMPOUNDING; AFTER-TREATMENT NOT COVERED BY SUBCLASSES C08B, C08C, C08F, C08G or C08H**

<u>Type*</u>	<u>Symbol</u>	<u>Indent Level Number of dots (e.g. 0, 1, 2)</u>	<u>Title</u> “CPC only” text should normally be enclosed in {curly brackets}**	<u>Transferred to#</u>
M	C08J 2331/00	0	Characterised by the use of copolymers of compounds having one or more unsaturated aliphatic radicals, each having only one carbon-to-carbon double bond, and at least one being terminated by an acyloxy radical of a saturated carboxylic acid, or carbonic acid, or of a haloformic acid	
M	C08J 2337/00	0	Characterised by the use of homopolymers or copolymers of compounds having one or more unsaturated aliphatic radicals, each having only one carbon-to-carbon double bond, and at least one being terminated by a heterocyclic ring containing oxygen; Derivatives of such polymers	
M	C08J 2345/00	0	Characterised by the use of homopolymers or copolymers of compounds having no unsaturated aliphatic radicals in side chain, and having one or more carbon-to-carbon double bonds in a carbocyclic or in a heterocyclic ring system; Derivatives of such polymers	
M	C08J 2351/00	0	Characterised by the use of graft polymers in which the grafted component is obtained by reactions only involving carbon-to-carbon unsaturated bonds; Derivatives of such polymers	

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M	C08J 2361/00	0	Characterised by the use of condensation polymers of aldehydes or ketones; Derivatives of such polymers
M	C08J 2361/20	1	Condensation polymers of aldehydes or ketones with only compounds containing hydrogen attached to nitrogen
M	C08J 2367/00	0	Characterised by the use of polyesters obtained by reactions forming a carboxylic ester link in the main chain; Derivatives of such polymers
M	C08J 2371/00	0	Characterised by the use of polyethers obtained by reactions forming an ether link in the main chain; Derivatives of such polymers
M	C08J 2377/00	0	Characterised by the use of polyamides obtained by reactions forming a carboxylic amide link in the main chain; Derivatives of such polymers
M	C08J 2383/10	1	Block- or graft-copolymers containing polysiloxane sequences
M	C08J 2393/00	0	Characterised by the use of natural resins; Derivatives thereof
M	C08J 2397/00	0	Characterised by the use of lignin-containing materials
M	C08J 2431/00	0	Characterised by the use of copolymers of compounds having one or more unsaturated aliphatic radicals, each having only one carbon-to-carbon double bond, and at least one being terminated by an acyloxy radical of a saturated carboxylic acid, or carbonic acid, or of a haloformic acid
M	C08J 2437/00	0	Characterised by the use of homopolymers or copolymers of compounds having one or more unsaturated aliphatic radicals, each having only one carbon-to-carbon double bond, and at least one being terminated by a heterocyclic ring containing oxygen; Derivatives of such polymers
M	C08J 2445/00	0	Characterised by the use of homopolymers or copolymers of compounds having no unsaturated aliphatic radicals in side chain, and having one or more carbon-to-carbon double bonds in a carbocyclic or in a heterocyclic ring system; Derivatives of such polymers
M	C08J 2451/00	0	Characterised by the use of graft polymers in which the grafted component is obtained by reactions only involving carbon-to-carbon unsaturated bonds; Derivatives of such polymers
M	C08J 2461/00	0	Characterised by the use of condensation polymers of aldehydes or ketones; Derivatives of such polymers
M	C08J 2461/20	1	Condensation polymers of aldehydes or ketones with only compounds containing hydrogen attached to nitrogen

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M	C08J 2467/00	0	Characterised by the use of polyesters obtained by reactions forming a carboxylic ester link in the main chain; Derivatives of such polymers	
M	C08J 2471/00	0	Characterised by the use of polyethers obtained by reactions forming an ether link in the main chain; Derivatives of such polymers	
M	C08J 2477/00	0	Characterised by the use of polyamides obtained by reactions forming a carboxylic amide link in the main chain; Derivatives of such polymers	
M	C08J 2483/10	1	Block- or graft-copolymers containing polysiloxane sequences	
M	C08J 2493/00	0	Characterised by the use of natural resins; Derivatives thereof	
M	C08J 2497/00	0	Characterised by the use of lignin-containing materials	

**SUBCLASS C10J - PRODUCTION OF PRODUCER GAS, WATER-GAS, SYNTHESIS GAS FROM SOLID CARBONACEOUS MATERIAL, OR MIXTURES CONTAINING THESE GASES; CARBURETTING AIR OR OTHER GASES**

<u>Type*</u>	<u>Symbol</u>	<u>Indent Level Number of dots (e.g. 0, 1, 2)</u>	<u>Title</u> <u>“CPC only” text should normally be enclosed in {curly brackets}**</u>	<u>Transferred to<sup>#</sup></u>
M	C10J 2200/06	1	Catalysts as integral part of gasifiers	

**SUBCLASS C10M - LUBRICATING COMPOSITIONS; USE OF CHEMICAL SUBSTANCES EITHER ALONE OR AS LUBRICATING INGREDIENTS IN A LUBRICATING COMPOSITION**

<u>Type*</u>	<u>Symbol</u>	<u>Indent Level Number of dots (e.g. 0, 1, 2)</u>	<u>Title</u> <u>“CPC only” text should normally be enclosed in {curly brackets}**</u>	<u>Transferred to<sup>#</sup></u>
M	C10M 2201/06	1	Metal compounds	
M	C10M 2201/08	1	Inorganic acids or salts thereof	
M	C10M 2201/082	2	containing nitrogen	
M	C10M 2201/084	2	containing sulfur, selenium or tellurium	
M	C10M 2207/28	1	Esters	
M	C10M 2209/00	0	Organic macromolecular compounds containing oxygen as ingredients in lubricant compositions	
M	C10M 2215/02	1	Amines, e.g. polyalkylene polyamines; Quaternary amines	
M	C10M 2219/022	2	of hydrocarbons, e.g. olefines	
M	C10M 2221/02	1	Macromolecular compounds obtained by reactions of monomers involving only carbon-to-carbon unsaturated bonds	
M	C10M 2227/08	1	having metal-to-carbon bonds	



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**SUBCLASS C12N - MICROORGANISMS OR ENZYMES; COMPOSITIONS THEREOF; PROPAGATING, PRESERVING, OR MAINTAINING MICROORGANISMS; MUTATION OR GENETIC ENGINEERING; CULTURE MEDIA**

<u>Type*</u>	<u>Symbol</u>	<u>Indent Level Number of dots (e.g. 0, 1, 2)</u>	<u>Title</u> <u>“CPC only” text should normally be enclosed in {curly brackets}**</u>	<u>Transferred to<sup>#</sup></u>
M	C12N 2310/18	2	acting by a non-sequence specific mechanism	
M	C12N 2500/10	2	Metals; Metal chelators	
M	C12N 2500/22	4	Zinc; Zn chelators	
M	C12N 2500/30	1	Organic components	
M	C12N 2500/40	2	Nucleotides, nucleosides or bases	
M	C12N 2500/70	1	Undefined extracts	
M	C12N 2501/30	1	Hormones	
M	C12N 2501/33	2	Insulin	
M	C12N 2501/72	2	Transferases [EC 2.]	
M	C12N 2533/30	1	Synthetic polymers	

**SUBCLASS C12Q - MEASURING OR TESTING PROCESSES INVOLVING ENZYMES, NUCLEIC ACIDS OR MICROORGANISMS; COMPOSITIONS OR TEST PAPERS THEREFOR; PROCESSES OF PREPARING SUCH COMPOSITIONS; CONDITION-RESPONSIVE CONTROL IN MICROBIOLOGICAL OR ENZYMOLOGICAL PROCESSES**

<u>Type*</u>	<u>Symbol</u>	<u>Indent Level Number of dots (e.g. 0, 1, 2)</u>	<u>Title</u> <u>“CPC only” text should normally be enclosed in {curly brackets}**</u>	<u>Transferred to<sup>#</sup></u>
M	C12Q 2304/00	0	Chemical means of detecting microorganisms	

**SUBCLASS G01N - INVESTIGATING OR ANALYSING MATERIALS BY DETERMINING THEIR CHEMICAL OR PHYSICAL PROPERTIES**

<u>Type*</u>	<u>Symbol</u>	<u>Indent Level Number of dots (e.g. 0, 1, 2)</u>	<u>Title</u> <u>“CPC only” text should normally be enclosed in {curly brackets}**</u>	<u>Transferred to<sup>#</sup></u>
M	G01N 2333/181	4	Alphaviruses or Group A arboviruses, e.g. sindbis, VEE, EEE, WEE or semliki forest virus	
M	G01N 2333/3156	3	from Streptococcus pneumoniae [Pneumococcus]	
M	G01N 2333/575	2	Hormones	
M	G01N 2333/70575	3	NGF/TNF-superfamily, e.g. CD70, CD95L, CD153 or CD154	
M	G01N 2333/70578	3	NGF-receptor/TNF-receptor superfamily, e.g. CD27, CD30 CD40 or CD95	
M	G01N 2333/72	3	for hormones	
M	G01N 2400/02	1	involving antibodies to sugar part of glycoproteins	

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M	G01N 2400/38	2	Heteroglycans, i.e. polysaccharides having more than one sugar residue in the main chain in either alternating or less regular sequence, e.g. gluco- or galactomannans, Konjac gum, Locust bean gum or Guar gum	
M	G01N 2405/00	0	Assays, e.g. immunoassays or enzyme assays, involving lipids	
M	G01N 2496/25	1	containing added polymers to stabilise biological material against degradation or maintain viscosity or density, e.g. gelatin, polyacrylamides or polyvinyl alcohol	
M	G01N 2496/45	1	containing protease inhibitors, e.g. sulfonylfluorides, chloromethylketones or organophosphates	
M	G01N 2800/24	1	Immunology or allergic disorders	

**SUBCLASS G01V - GEOPHYSICS; GRAVITATIONAL MEASUREMENTS; DETECTING MASSES OR OBJECTS; TAGS**

<u>Type*</u>	<u>Symbol</u>	<u>Indent Level Number of dots (e.g. 0, 1, 2)</u>	<u>Title</u> “CPC only” text should normally be enclosed in {curly brackets}**	<u>Transferred to#</u>
M	G01V 2210/20	1	Trace signal pre-filtering to select, remove or transform specific events or signal components, i.e. trace-in/trace-out	
M	G01V 2210/30	1	Noise handling	
M	G01V 2210/34	2	Noise estimation	
M	G01V 2210/40	1	Transforming data representation	
M	G01V 2210/50	1	Corrections or adjustments related to wave propagation	

**SUBCLASS G03G - ELECTROGRAPHY; ELECTROPHOTOGRAPHY; MAGNETOGRAPHY**

<u>Type*</u>	<u>Symbol</u>	<u>Indent Level Number of dots (e.g. 0, 1, 2)</u>	<u>Title</u> “CPC only” text should normally be enclosed in {curly brackets}**	<u>Transferred to#</u>
M	G03G 2215/0426	2	Editing of the image, e.g. adding or deleting	
M	G03G 2221/1648	2	using seals, e.g. to prevent scattering of toner	

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**SUBCLASS G03H - HOLOGRAPHIC PROCESSES OR APPARATUS**

<u>Type*</u>	<u>Symbol</u>	<u>Indent Level Number of dots (e.g. 0, 1, 2)</u>	<u>Title</u> <u>“CPC only” text should normally be enclosed in {curly brackets}**</u>	<u>Transferred to<sup>#</sup></u>
M	G03H 2001/0016	3	{Covert holograms or holobjects requiring additional knowledge to be perceived, e.g. holobject reconstructed only under IR illumination}	
M	G03H 2001/0204	2	{Object characteristics}	
M	G03H 2001/022	3	{Writing means other than actinic light wave}	
M	G03H 2001/0224	3	{Active addressable light modulator, i.e. Spatial Light Modulator [SLM]}	
M	G03H 2001/0232	3	{Mechanical components or mechanical aspects not otherwise provided for}	
M	G03H 2001/0436	3	{Holographic camera}	
M	G03H 2001/0452	3	{arranged to record an image of the object}	
M	G03H 2001/188	4	{Demetallisation, i.e. removing the enhancing metallic layer}	
M	G03H 2210/22	2	2D SLM object wherein the object beam is formed of the light modulated by the SLM	
M	G03H 2222/55	2	Astigmatic beam having different focal planes	
M	G03H 2223/21	1	Anamorphic optical element, e.g. cylindrical	
M	G03H 2224/06	1	Thermal or photo-thermal means	
M	G03H 2250/10	1	arranged to be transferred onto a carrier body	
M	G03H 2260/50	1	Reactivity or recording processes	
M	G03H 2260/63	2	Indirect etching, e.g. lithography	

**SUBCLASS G06F - ELECTRIC DIGITAL DATA PROCESSING**

<u>Type*</u>	<u>Symbol</u>	<u>Indent Level Number of dots (e.g. 0, 1, 2)</u>	<u>Title</u> <u>“CPC only” text should normally be enclosed in {curly brackets}**</u>	<u>Transferred to<sup>#</sup></u>
M	G06F 2207/382	5	Reconfigurable for different fixed word lengths	

**SUBCLASS G06Q - INFORMATION AND COMMUNICATION TECHNOLOGY [ICT] SPECIALLY ADAPTED FOR ADMINISTRATIVE, COMMERCIAL, FINANCIAL, MANAGERIAL OR SUPERVISORY PURPOSES; SYSTEMS OR METHODS SPECIALLY ADAPTED FOR ADMINISTRATIVE, COMMERCIAL, FINANCIAL, MANAGERIAL OR SUPERVISORY PURPOSES, NOT OTHERWISE PROVIDED FOR**

<u>Type*</u>	<u>Symbol</u>	<u>Indent Level Number of dots (e.g. 0, 1, 2)</u>	<u>Title</u> <u>“CPC only” text should normally be enclosed in {curly brackets}**</u>	<u>Transferred to<sup>#</sup></u>
M	G06Q 2220/00	0	Business processing using cryptography	

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**SUBCLASS G10H - ELECTROPHONIC MUSICAL INSTRUMENTS; INSTRUMENTS IN WHICH THE TONES ARE GENERATED BY ELECTROMECHANICAL MEANS OR ELECTRONIC GENERATORS, OR IN WHICH THE TONES ARE SYNTHESISED FROM A DATA STORE**

<u>Type*</u>	<u>Symbol</u>	<u>Indent Level Number of dots (e.g. 0, 1, 2)</u>	<u>Title</u> <u>“CPC only” text should normally be enclosed in {curly brackets}**</u>	<u>Transferred to#</u>
M	G10H 2210/00	0	Aspects or methods of musical processing having intrinsic musical character, i.e. involving musical theory or musical parameters or relying on musical knowledge, as applied in electrophonic musical tools or instruments	
M	G10H 2210/005	1	Musical accompaniment, i.e. complete instrumental rhythm synthesis added to a performed melody, e.g. as output by drum machines	
M	G10H 2210/021	1	Background music, e.g. for video sequences or elevator music	
M	G10H 2210/031	1	Musical analysis, i.e. isolation, extraction or identification of musical elements or musical parameters from a raw acoustic signal or from an encoded audio signal	
M	G10H 2210/071	2	for rhythm pattern analysis or rhythm style recognition	
M	G10H 2210/076	2	for extraction of timing, tempo; Beat detection	
M	G10H 2210/115	3	using a random process to generate a musical note, phrase, sequence or structure	
M	G10H 2210/161	2	Note sequence effects, i.e. sensing, altering, controlling, processing or synthesising a note trigger selection or sequence, e.g. by altering trigger timing, triggered note values, adding improvisation or ornaments or also rapid repetition of the same note onset	
M	G10H 2210/191	3	Tremolo, tremulando, trill or mordent effects, i.e. repeatedly alternating stepwise in pitch between two note pitches or chords, without any portamento between the two notes	
M	G10H 2210/195	2	Modulation effects, i.e. smooth non-discontinuous variations over a time interval, e.g. within a note, melody or musical transition, of any sound parameter, e.g. amplitude, pitch, spectral response or playback speed	
M	G10H 2210/201	3	Vibrato, i.e. rapid, repetitive and smooth variation of amplitude, pitch or timbre within a note or chord	
M	G10H 2210/205	4	Amplitude vibrato, i.e. repetitive smooth loudness variation without pitch change or rapid repetition of the same note, bisbigliando, amplitude tremolo or tremulants	

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M	G10H 2210/211	4	Pitch vibrato, i.e. repetitive and smooth variation in pitch, e.g. as obtainable with a whammy bar or tremolo arm on a guitar
M	G10H 2210/221	3	Glissando, i.e. pitch smoothly sliding from one note to another, e.g. gliss, glide, slide, bend, smear or sweep
M	G10H 2210/225	4	Portamento, i.e. smooth continuously variable pitch-bend, without emphasis of each chromatic pitch during the pitch change, which only stops at the end of the pitch shift, as obtained, e.g. by a MIDI pitch wheel or trombone
M	G10H 2210/265	2	Acoustic effect simulation, i.e. volume, spatial, resonance or reverberation effects added to a musical sound, usually by appropriate filtering or delays
M	G10H 2210/295	3	Spatial effects, musical uses of multiple audio channels, e.g. stereo
M	G10H 2210/311	2	Distortion, i.e. desired non-linear audio processing to change the tone colour, e.g. by adding harmonics or deliberately distorting the amplitude of an audio waveform
M	G10H 2210/315	2	Dynamic effects for musical purposes, i.e. musical sound effects controlled by the amplitude of the time domain audio envelope, e.g. loudness-dependent tone colour or musically desired dynamic range compression or expansion
M	G10H 2210/325	1	Musical pitch modification
M	G10H 2210/335	3	Chord correction, i.e. modifying one or several notes within a chord, e.g. to correct wrong fingering or to improve harmony
M	G10H 2210/341	1	Rhythm pattern selection, synthesis or composition
M	G10H 2210/346	2	Pattern variations, break or fill-in
M	G10H 2210/375	1	Tempo or beat alterations; Music timing control
M	G10H 2210/381	2	Manual tempo setting or adjustment
M	G10H 2210/385	2	Speed change, i.e. variations from preestablished tempo, tempo change, e.g. faster or slower, accelerando or ritardando, without change in pitch
M	G10H 2210/395	1	Special musical scales, i.e. other than the 12-interval equally tempered scale; Special input devices therefor
M	G10H 2210/431	3	Quarter tone scale, i.e. 24 equal intervals per octave, e.g. for Arabic music
M	G10H 2210/441	3	Janko scale, i.e. 41 equal intervals per octave, e.g. as used in the "tonal plexus" keyboard with 211 keys per octave arranged in 12 staggered columns, i.e. in 41 regions of 5 keys each plus 6 duplicate enharmonic keys
M	G10H 2210/461	3	Jankovski scale or twelfth tone scale, i.e. octave divided in 72 equal intervals, e.g. moria in Byzantine music theory

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M	G10H 2210/471	2	Natural or just intonation scales, i.e. based on harmonics consonance such that most adjacent pitches are related by harmonically pure ratios of small integers
M	G10H 2210/506	3	Danielou 53 interval scale, with note ratios equal to $(2^{**p})(3^{**q})(5^{**r})$ , with p, q, r positive or negative integers
M	G10H 2210/511	2	Arabic scales, i.e. either double harmonic scale or major locrian scale; Vosta or zaid modes
M	G10H 2210/515	2	Balinese scales, e.g. for gamelan, with instruments played in pairs and tuned slightly apart to produce interference beating ideally at a consistent speed for all pairs of notes in all registers; Balinese pentatonic scales, e.g. Balinese slendro scale, or five-tone modes of the heptatonic pelog scale, itself substantially a 7-note subset of 9-tone equal temperament
M	G10H 2210/531	2	Bluenote scale, i.e. 7-tone scale of 2+1+2+1+3+1+2 semitones
M	G10H 2210/541	2	Pentatonic or pentatonic scale, i.e. five pitches or notes per octave, e.g. basic Chinese musical scale, black piano keys, Javanese gamelan slendro scale or Japanese shakuhachi flute
M	G10H 2210/555	1	Tonality processing, involving the key in which a musical piece or melody is played
M	G10H 2210/571	1	Chords; Chord sequences
M	G10H 2210/586	2	Natural chords, i.e. adjustment of individual note pitches in order to generate just intonation chords
M	G10H 2220/005	1	Non-interactive screen display of musical or status data
M	G10H 2220/015	2	Musical staff, tablature or score displays, e.g. for score reading during a performance
M	G10H 2220/021	1	Indicator, i.e. non-screen output user interfacing, e.g. visual or tactile instrument status or guidance information using lights, LEDs or seven segments displays
M	G10H 2220/081	2	Beat indicator, e.g. marks or flashing LEDs to indicate tempo or beat positions
M	G10H 2220/086	2	Beats per minute [BPM] indicator, i.e. displaying a tempo value, e.g. in words or as numerical value in beats per minute
M	G10H 2220/096	2	using a touch screen
M	G10H 2220/111	4	for graphical orchestra or soundstage control, e.g. on-screen selection or positioning of instruments in a virtual orchestra, using movable or selectable musical instrument icons
M	G10H 2220/116	3	for graphical editing of sound parameters or waveforms, e.g. by graphical interactive control of timbre, partials or envelope
M	G10H 2220/121	3	for graphical editing of a musical score, staff or tablature

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M	G10H 2220/135	1	Musical aspects of games or videogames; Musical instrument-shaped game input interfaces
M	G10H 2220/161	2	with 2D or x/y surface coordinates sensing
M	G10H 2220/165	2	for string input, i.e. special characteristics in string composition or use for sensing purposes, e.g. causing the string to become its own sensor
M	G10H 2220/175	3	using nonmagnetic string materials, e.g. nylon; Sensors specially adapted therefor
M	G10H 2220/185	2	Stick input, e.g. drumsticks with position or contact sensors
M	G10H 2220/221	2	Keyboards, i.e. configuration of several keys or key-like input devices relative to one another
M	G10H 2220/236	3	representing an active musical staff or tablature, i.e. with key-like position sensing at the expected note positions on the staff
M	G10H 2220/251	3	arranged as 2D or 3D arrays; Keyboards ergonomically organised for playing chords or for transposing, e.g. Janko keyboard
M	G10H 2220/265	2	Key design details; Special characteristics of individual keys of a keyboard; Key-like musical input devices, e.g. finger sensors, pedals, potentiometers, selectors
M	G10H 2220/271	3	Velocity sensing for individual keys, e.g. by placing sensors at different points along the kinematic path for individual key velocity estimation by delay measurement between adjacent sensor signals
M	G10H 2220/305	3	using a light beam to detect key, pedal or note actuation
M	G10H 2220/336	3	Control shoe or boot, i.e. sensor-equipped lower part of lower limb, e.g. shoe, toe ring, sock, ankle bracelet or leg control attachment
M	G10H 2220/341	2	Floor sensors, e.g. platform or groundsheet with sensors to detect foot position, balance or pressure, steps, stepping rhythm, dancing movements or jumping
M	G10H 2220/365	2	Bow control in general, i.e. sensors or transducers on a bow; Input interface or controlling process for emulating a bow, bowing action or generating bowing parameters, e.g. for appropriately controlling a specialised sound synthesiser
M	G10H 2220/371	2	Vital parameter control, i.e. musical instrument control based on body signals, e.g. brainwaves, pulsation, temperature or perspiration; Biometric information
M	G10H 2220/391	2	Angle sensing for musical purposes, using data from a gyroscope, gyrometer or other angular velocity or angular movement sensing device
M	G10H 2220/395	2	Acceleration sensing or accelerometer use, e.g. 3D movement computation by integration of accelerometer data, angle sensing with respect to the vertical, i.e. gravity sensing

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M	G10H 2220/401	2	3D sensing, i.e. three-dimensional (x, y, z) position or movement sensing	
M	G10H 2220/405	2	Beam sensing or control, i.e. input interfaces involving substantially immaterial beams, radiation, or fields of any nature, used, e.g. as a switch as in a light barrier, or as a control device, e.g. using the theremin electric field sensing principle	
M	G10H 2220/411	3	Light beams	
M	G10H 2220/565	2	Shielding, electromagnetic or magnetic, e.g. for transducers, i.e. for controlling, orienting or suppressing magnetic fields or for preventing unintentional generation, propagation and reception of electromagnetic energy in electrophonic musical instruments, their vicinity or their interconnections	
M	G10H 2230/015	2	PDA [personal digital assistant] or palmtop computing devices used for musical purposes, e.g. portable music players, tablet computers, e-readers or smart phones in which mobile telephony functions need not be used	
M	G10H 2230/021	2	Mobile ringtone, i.e. generation, transmission, conversion or downloading of ringing tones or other sounds for mobile telephony; Special musical data formats or protocols therefor	
M	G10H 2230/075	2	Spint stringed, i.e. mimicking stringed instrument features, electrophonic aspects of acoustic stringed musical instruments without keyboard; MIDI-like control therefor	
M	G10H 2230/105	4	Spint dulcimer, i.e. mimicking any zither-like instrument with small hand-played mallet hammers	
M	G10H 2230/121	3	Spint mandolin, i.e. mimicking instruments of the lute family with hard sounding board, e.g. with strings arranged and tuned in pairs for tremolo playing	
M	G10H 2230/155	2	Spint wind instrument, i.e. mimicking musical wind instrument features; Electrophonic aspects of acoustic wind instruments; MIDI-like control therefor	
M	G10H 2230/181	4	Spint trombone, i.e. mimicking trombones or other slide musical instruments permitting a continuous musical scale	
M	G10H 2230/185	4	Spint horn, i.e. mimicking conical bore brass instruments	
M	G10H 2230/191	5	Spint French horn, i.e. mimicking an orchestral horn with valves for switching pipe lengths	
M	G10H 2230/195	3	Spint flute, i.e. mimicking or emulating a transverse flute or air jet sensor arrangement therefor, e.g. sensing angle or lip position to trigger octave change	



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M	G10H 2230/201	4	Spint piccolo, i.e. half-size transverse flute, e.g. ottavino	
M	G10H 2230/211	4	Spint harmonica, i.e. mimicking mouth operated wind instruments with multiple tuned free reeds, a.k.a. harmonica, blues harp, mouth organ, pitch pipe or ChengGong	
M	G10H 2230/251	2	Spint percussion, i.e. mimicking percussion instruments; Electroponic musical instruments with percussion instrument features; Electroponic aspects of acoustic percussion instruments or MIDI-like control therefor	
M	G10H 2230/281	4	Spint drum assembly, i.e. mimicking two or more drums or drumpads assembled on a common structure, e.g. drum kit	
M	G10H 2240/016	2	File editing, i.e. modifying musical data files or streams as such	
M	G10H 2240/046	2	File format, i.e. specific or non-standard musical file format used in or adapted for electroponic musical instruments, e.g. in wavetables	
M	G10H 2240/066	3	MPEG audio-visual compression file formats, e.g. MPEG-4 for coding of audio-visual objects	
M	G10H 2240/081	2	Genre classification, i.e. descriptive metadata for classification or selection of musical pieces according to style	
M	G10H 2240/091	1	Info, i.e. juxtaposition of unrelated auxiliary information or commercial messages with or between music files	
M	G10H 2240/151	2	Thumbnail, i.e. retrieving, playing or managing a short and musically relevant song preview from a library, e.g. the chorus	
M	G10H 2240/155	2	Library update, i.e. making or modifying a musical database using musical parameters as indices	
M	G10H 2240/161	1	Memory and use thereof, in electroponic musical instruments, e.g. memory map	
M	G10H 2240/171	1	Transmission of musical instrument data, control or status information; Transmission, remote access or control of music data for electroponic musical instruments	
M	G10H 2240/211	3	Wireless transmission, e.g. of music parameters or control data by radio, infrared or ultrasound	
M	G10H 2240/251	4	Mobile telephone transmission, i.e. transmitting, accessing or controlling music data wirelessly via a wireless or mobile telephone receiver, analogue or digital, e.g. DECT, GSM, UMTS	
M	G10H 2240/295	3	Packet switched network, e.g. token ring	
M	G10H 2240/325	1	Synchronizing two or more audio tracks or files according to musical features or musical timings	
M	G10H 2250/00	0	Aspects of algorithms or signal processing methods without intrinsic musical character, yet specifically adapted for or used in electroponic musical processing	

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M	G10H 2250/005	1	Algorithms for electrophonic musical instruments or musical processing, e.g. for automatic composition or resource allocation
M	G10H 2250/071	2	All pole filter, i.e. autoregressive [AR] filter
M	G10H 2250/075	2	All zero filter, i.e. moving average [MA] filter or finite impulse response [FIR] filter
M	G10H 2250/091	2	Chebyshev filters
M	G10H 2250/111	2	Impulse response, i.e. filters defined or specified by their temporal impulse response features, e.g. for echo or reverberation applications
M	G10H 2250/115	3	FIR impulse, e.g. for echoes or room acoustics, the shape of the impulse response is specified in particular according to delay times
M	G10H 2250/121	3	IIR impulse
M	G10H 2250/145	2	Convolution, e.g. of a music input signal with a desired impulse response to compute an output
M	G10H 2250/191	5	Chebyshev polynomials, e.g. to provide filter coefficients for sharp rolloff filters
M	G10H 2250/211	2	Random number generators, pseudorandom generators, classes of functions therefor
M	G10H 2250/221	3	Cosine transform; DCT [discrete cosine transform], e.g. for use in lossy audio compression such as MP3
M	G10H 2250/225	4	MDCT [Modified discrete cosine transform], i.e. based on a DCT of overlapping data
M	G10H 2250/271	3	Chebyshev window
M	G10H 2250/305	2	Noise or artifact control in electrophonic musical instruments
M	G10H 2250/315	1	Sound category-dependent sound synthesis processes [Gensound] for musical use; Sound category-specific synthesis-controlling parameters or control means therefor
M	G10H 2250/365	2	Gensound applause, e.g. handclapping; Cheering; Booning
M	G10H 2250/401	3	Crowds, e.g. restaurant, waiting hall, demonstration or subway corridor at rush hour
M	G10H 2250/431	4	Natural aerodynamic noises, e.g. wind gust sounds, rustling leaves or beating sails
M	G10H 2250/435	2	Gensound percussion, i.e. generating or synthesising the sound of a percussion instrument; Control of specific aspects of percussion sounds, e.g. harmonics, under the influence of hitting force, hitting position, settings or striking instruments such as mallet, drumstick, brush or hand
M	G10H 2250/441	2	Gensound string, i.e. generating the sound of a string instrument, controlling specific features of said sound

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M	G10H 2250/445	3	Bowed string instrument sound generation, controlling specific features of said sound, e.g. use of fret or bow control parameters for violin effects synthesis	
M	G10H 2250/451	3	Plucked or struck string instrument sound synthesis, controlling specific features of said sound	
M	G10H 2250/461	2	Gensound wind instruments, i.e. generating or synthesising the sound of a wind instrument, controlling specific features of said sound	
M	G10H 2250/465	3	Reed instrument sound synthesis, controlling specific features of said sound	
M	G10H 2250/471	1	General musical sound synthesis principles, i.e. sound category-independent synthesis methods	
M	G10H 2250/481	2	Formant synthesis, i.e. simulating the human speech production mechanism by exciting formant resonators, e.g. mimicking vocal tract filtering as in LPC synthesis vocoders, wherein musical instruments may be used as excitation signal to the time-varying filter estimated from a singer's speech	
M	G10H 2250/501	3	Formant frequency shifting, sliding formants	
M	G10H 2250/505	2	Parcor synthesis, i.e. music synthesis using partial autocorrelation techniques, e.g. in which the impulse response of the digital filter in a parcor speech synthesizer is used as a musical signal	
M	G10H 2250/531	3	Room models, i.e. acoustic physical modelling of a room, e.g. concert hall	
M	G10H 2250/541	1	Details of musical waveform synthesis, i.e. audio waveshape processing from individual wavetable samples, independently of their origin or of the sound they represent	
M	G10H 2250/561	3	Parabolic waveform approximation, e.g. using second order polynomials or parabolic responses	
M	G10H 2250/565	3	Polynomial waveform approximation, i.e. using polynomials of third order or higher	
M	G10H 2250/575	3	Adaptive MDCT-based compression, e.g. using a hybrid subband-MDCT, as in ATRAC	
M	G10H 2250/615	2	Waveform editing, i.e. setting or modifying parameters for waveform synthesis	
M	G10H 2250/631	2	Waveform resampling, i.e. sample rate conversion or sample depth conversion	

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**SUBCLASS G10K - SOUND-PRODUCING DEVICES; METHODS OR DEVICES FOR PROTECTING AGAINST, OR FOR DAMPING, NOISE OR OTHER ACOUSTIC WAVES IN GENERAL; ACOUSTICS NOT OTHERWISE PROVIDED FOR**

<u>Type*</u>	<u>Symbol</u>	<u>Indent Level</u> <u>Number of dots</u> <u>(e.g. 0, 1, 2)</u>	<u>Title</u> <u>“CPC only” text should normally be</u> <u>enclosed in {curly brackets}**</u>	<u>Transferred to<sup>#</sup></u>
M	G10K 2210/107	2	Combustion, e.g. burner noise control of jet engines	
M	G10K 2210/112	2	Ducts	

\*N = new entries where reclassification into entries is involved; C = entries with modified file scope where reclassification of documents from the entries is involved; Q = new entries which are firstly populated with documents via administrative transfers from deleted (D) entries. Afterwards, the transferred documents into the Q entry will either stay or be moved to more appropriate entries, as determined by intellectual reclassification; T = existing entries with enlarged file scope, which receive documents from C or D entries, e.g. when a limiting reference is removed from the entry title; M = entries with no change to the file scope (no reclassification); D = deleted entries; F = frozen entries will be deleted once reclassification of documents from the entries is completed; U = entries that are unchanged.

NOTES:

- \*\*No {curly brackets} are used for titles in CPC only subclasses, e.g. C12Y, A23Y; 2000 series symbol titles of groups found at the end of schemes (orthogonal codes); or the Y section titles. The {curly brackets} are used for 2000 series symbol titles found interspersed throughout the main trunk schemes (breakdown codes).
- U groups: it is obligatory to display the required “anchor” symbol (U group), i.e. the entry immediately preceding a new group or an array of new groups to be created (in case new groups are not clearly subgroups of C-type groups). Always include the symbol, indent level and title of the U group in the table above.
- All entry types should be included in the scheme changes table above for better understanding of the overall scheme change picture. Symbol, indent level, and title are required for all types.
- “Transferred to” column must be completed for all C, D, F, and Q type entries. F groups will be deleted once reclassification is completed.
- When multiple symbols are included in the “Transferred to” column, avoid using ranges of symbols in order to be as precise as possible.
- For administrative transfer of documents, the following text should be used: “<administrative transfer to XX>”, “<administrative transfer to XX and YY simultaneously>”, or “<administrative transfer to XX, YY, ...and ZZ simultaneously>” when administrative transfer of the same documents is to more than one place.
- Administrative transfer to main trunk groups is assumed to be the source allocation type, unless otherwise indicated.
- Administrative transfer to 2000/Y series groups is assumed to be “additional information”.
- If needed, instructions for allocation type should be indicated within the angle brackets using the abbreviations “ADD” or “INV”: <administrative transfer to XX ADD> , <administrative transfer to XX INV>, or <administrative transfer to XX ADD, YY INV, ... and ZZ ADD simultaneously>.
- In certain situations, the “D” entries of 2000-series or Y-series groups may not require a destination (“Transferred to”) symbol, however it is required to specify “<no transfer>” in the “Transferred to” column for such cases.
- For finalization projects, the deleted “F” symbols should have <no transfer> in the “Transferred to” column.

For more details about the types of scheme change, see CPC Guide.

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## 2. A. DEFINITIONS (new)

Insert: The following new Definitions.

### C01B 2203/00

#### References

#### *Informative references*

*Attention is drawn to the following places, which may be of interest for search:*

Processes carried out in the presence of solid particles or reactors therefor	<a href="#">B01J 2208/00</a>
Chemical, physical or physico-chemical processes in general	<a href="#">B01J 2219/00</a>

### C02F 2201/008

#### References

#### *Informative references*

*Attention is drawn to the following places, which may be of interest for search:*

Mobile apparatus and plants, e.g. mounted on a vehicle, for the biological treatment of water, wastewater or sewage	<a href="#">C02F 2203/008</a>
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### C02F 2201/009

#### References

#### *Informative references*

*Attention is drawn to the following places, which may be of interest for search:*

Electrolysis apparatus with special power supply, e.g. solar energy or batteries	<a href="#">C02F 2201/46165</a>
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## **C02F 2201/4619**

### **References**

#### ***Informative references***

*Attention is drawn to the following places, which may be of interest for search:*

Gas diffusion electrodes for water treatment by electrolysis	<a href="#">C02F 2001/46166</a>
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## **C03B 2215/22**

### **References**

#### ***Informative references***

*Attention is drawn to the following places, which may be of interest for search:*

Carbon, e.g. diamond, graphite or amorphous carbon	<a href="#">C03B 2215/24</a>
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## **C04B 2111/00025**

### **References**

#### ***Informative references***

*Attention is drawn to the following places, which may be of interest for search:*

Compositions or ingredients of mortars, concrete or artificial stone characterised by the absence or the very low content of chromium VI, e.g. for avoiding chromium eczema	<a href="#">C04B 2111/1081</a>
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**C04B 2111/00577**

**References**

***Informative references***

*Attention is drawn to the following places, which may be of interest for search:*

Sprayable mixtures, i.e. concrete-like, materials able to be shaped by spraying instead of by casting, e.g. gunite	<a href="#">C04B 2111/00155</a>
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**C04B 2111/00827**

**References**

***Informative references***

*Attention is drawn to the following places, which may be of interest for search:*

Materials containing photocatalysts, e.g. TiO <sub>2</sub> , for avoiding staining by air pollutants or the like	<a href="#">C04B 2111/2061</a>
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**C04B 2111/1081**

**References**

***Informative references***

*Attention is drawn to the following places, which may be of interest for search:*

Aspects relating to the protection of the health, e.g. materials containing special additives to afford skin protection	<a href="#">C04B 2111/00025</a>
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**C04B 2111/2069****References*****Informative references***

*Attention is drawn to the following places, which may be of interest for search:*

Materials containing photocatalysts, e.g. TiO <sub>2</sub> , for avoiding staining by air pollutants or the like	<a href="#">C04B 2111/2061</a>
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**C04B 2111/2076****References*****Informative references***

*Attention is drawn to the following places, which may be of interest for search:*

Self-cleaning materials, e.g. using lotus effect	<a href="#">C04B 2111/2069</a>
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**C07C 2527/18****References*****Informative references***

*Attention is drawn to the following places, which may be of interest for search:*

Phosphates or other compounds comprising the anion (PnO <sub>3n+1</sub> )(n+2)-	<a href="#">C07C 2527/167</a>
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**C08J 2331/00****References*****Informative references***

*Attention is drawn to the following places, which may be of interest for search:*

Hydrolysed polymers of esters of unsaturated alcohols with saturated carboxylic acids or derivatives of such polymer	<a href="#">C08J 2329/00</a>
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**C08J 2337/00****References*****Informative references***

*Attention is drawn to the following places, which may be of interest for search:*

Cyclic esters of polyfunctional acids	<a href="#">C08J 2331/00</a>
Cyclic anhydrides of unsaturated acids	<a href="#">C08J 2335/00</a>

**C08J 2345/00****References*****Informative references***

*Attention is drawn to the following places, which may be of interest for search:*

Cyclic anhydrides or imides	<a href="#">C08J 2335/00</a>
Cyclic esters of polyfunctional acids	<a href="#">C08J 2331/00</a>

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**C08J 2351/00****References*****Informative references***

*Attention is drawn to the following places, which may be of interest for search:*

Acrylonitrile-Butadiene-Styrene [ABS] polymers	<a href="#">C08J 2355/02</a>
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**C08J 2361/00****References*****Informative references***

*Attention is drawn to the following places, which may be of interest for search:*

Characterised by the use of polyacetals containing polyoxymethylene sequences only	<a href="#">C08J 2359/00</a>
Characterised by the use of polyamides obtained by reactions forming a carboxylic amide link in the main chain	<a href="#">C08J 2377/00</a>

**C08J 2361/20****References*****Informative references***

*Attention is drawn to the following places, which may be of interest for search:*

Condensation polymers of aldehydes or ketones with phenols only	<a href="#">C08J 2361/04</a>
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**C08J 2367/00****References****Informative references**

*Attention is drawn to the following places, which may be of interest for search:*

Polyester-amides	<a href="#">C08J 2377/12</a>
Polyester-imides	<a href="#">C08J 2379/08</a>

**C08J 2371/00****References****Informative references**

*Attention is drawn to the following places, which may be of interest for search:*

Characterised by the use of polyacetals containing polyoxymethylene sequences only	<a href="#">C08J 2359/00</a>
Characterised by the use of epoxy resins; Derivatives of epoxy resins	<a href="#">C08J 2363/00</a>
Polythioethers; Polythioether-ethers	<a href="#">C08J 2381/02</a>
Polysulfones; Polyethersulfones	<a href="#">C08J 2381/06</a>

**C08J 2377/00****References****Informative references**

*Attention is drawn to the following places, which may be of interest for search:*

Polyhydrazides; Polytriazoles; Polyamino-triazoles; Polyoxadiazoles	<a href="#">C08J 2379/06</a>
Polyimides; Polyester-imides; Polyamide-imides; Polyamide acids or similar polyimide precursors	<a href="#">C08J 2379/08</a>

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**C08J 2383/10****References*****Informative references***

*Attention is drawn to the following places, which may be of interest for search:*

Grafted on to macromolecular compounds obtained otherwise than by reactions only involving carbon-to-carbon unsaturated bonds	<a href="#">C08J 2351/08</a>
Characterised by the use of block copolymers containing at least one sequence of a polymer obtained by reactions only involving carbon-to-carbon unsaturated bonds; Derivatives of such polymers	<a href="#">C08J 2353/00</a>

**C08J 2393/00****References*****Informative references***

*Attention is drawn to the following places, which may be of interest for search:*

Characterised by the use of cellulose, modified cellulose or cellulose derivatives	<a href="#">C08J 2301/00</a>
Characterised by the use of starch, amylose or amylopectin or of their derivatives or degradation products	<a href="#">C08J 2303/00</a>
Characterised by the use of polysaccharides or of their derivatives	<a href="#">C08J 2305/00</a>
Characterised by the use of reclaimed rubber	<a href="#">C08J 2317/00</a>

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**C08J 2397/00****References*****Informative references***

*Attention is drawn to the following places, which may be of interest for search:*

Characterised by the use of cellulose, modified cellulose or cellulose derivatives	<a href="#">C08J 2301/00</a>
Characterised by the use of polysaccharides or of their derivatives not provided for in groups <a href="#">C08J 2301/00</a> or <a href="#">C08J 2303/00</a>	<a href="#">C08J 2305/00</a>

**C08J 2431/00****References*****Informative references***

*Attention is drawn to the following places, which may be of interest for search:*

Characterised by the use of homopolymers or copolymers of compounds having one or more unsaturated aliphatic radicals, each having only one carbon-to-carbon double bond, and at least one being terminated by an alcohol, ether, aldehydo, ketonic, acetal, or ketal radical; Hydrolysed polymers of esters of unsaturated alcohols with saturated carboxylic acids; Derivatives of such polymer	<a href="#">C08J 2429/00</a>
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**C08J 2437/00****References****Informative references**

*Attention is drawn to the following places, which may be of interest for search:*

Characterised by the use of copolymers of compounds having one or more unsaturated aliphatic radicals, each having only one carbon-to-carbon double bond, and at least one being terminated by an acyloxy radical of a saturated carboxylic acid, or carbonic acid, or of a haloformic acid	<a href="#">C08J 2431/00</a>
Characterised by the use of homopolymers or copolymers of compounds having one or more unsaturated aliphatic radicals, each having only one carbon-to-carbon double bond, and at least one being terminated by a carboxyl radical, and containing at least one other carboxyl radical in the molecule, or of salts, anhydrides, esters, amides, imides or nitriles thereof; Derivatives of such polymers	<a href="#">C08J 2435/00</a>

**C08J 2445/00****References****Informative references**

*Attention is drawn to the following places, which may be of interest for search:*

Characterised by the use of homopolymers or copolymers of compounds having one or more unsaturated aliphatic radicals, each having only one carbon-to-carbon double bond, and at least one being terminated by a carboxyl radical, and containing at least one other carboxyl radical in the molecule, or of salts, anhydrides, esters, amides, imides or nitriles thereof; Derivatives of such polymers	<a href="#">C08J 2435/00</a>
Characterised by the use of copolymers of compounds having one or more unsaturated aliphatic radicals, each having only one carbon-to-carbon double bond, and at least one being terminated by an acyloxy radical of a saturated carboxylic acid, or carbonic acid, or of a haloformic acid	<a href="#">C08J 2431/00</a>

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**C08J 2451/00****References*****Informative references***

*Attention is drawn to the following places, which may be of interest for search:*

Acrylonitrile-Butadiene-Styrene [ABS] polymers	<a href="#">C08J 2455/02</a>
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**C08J 2461/00****References*****Informative references***

*Attention is drawn to the following places, which may be of interest for search:*

Characterised by the use of polyacetals containing polyoxymethylene sequences only	<a href="#">C08J 2459/00</a>
Characterised by the use of polyamides obtained by reactions forming a carboxylic amide link in the main chain	<a href="#">C08J 2477/00</a>

**C08J 2461/20****References*****Informative references***

*Attention is drawn to the following places, which may be of interest for search:*

Condensation polymers of aldehydes or ketones with phenols only	<a href="#">C08J 2461/04</a>
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**C08J 2467/00****References****Informative references***Attention is drawn to the following places, which may be of interest for search:*

Polyester-amides	<a href="#">C08J 2477/12</a>
Polyimides; Polyester-imides; Polyamide-imides; Polyamide acids or similar polyimide precursors	<a href="#">C08J 2479/08</a>

**C08J 2471/00****References****Informative references***Attention is drawn to the following places, which may be of interest for search:*

Characterised by the use of polyacetals containing polyoxymethylene sequences only	<a href="#">C08J 2459/00</a>
Characterised by the use of epoxy resins; Derivatives of epoxy resins	<a href="#">C08J 2463/00</a>
Polythioethers; Polythioether-ethers	<a href="#">C08J 2481/02</a>
Polysulfones; Polyethersulfones	<a href="#">C08J 2481/06</a>

**C08J 2477/00****References****Informative references***Attention is drawn to the following places, which may be of interest for search:*

Polyhydrazides; Polytriazoles; Polyamino-triazoles; Polyoxadiazoles	<a href="#">C08J 2479/06</a>
Polyimides; Polyester-imides; Polyamide-imides; Polyamide acids or similar polyimide precursors	<a href="#">C08J 2479/08</a>



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**C08J 2483/10****References*****Informative references****Attention is drawn to the following places, which may be of interest for search:*

Graft polymers or derivatives of such polymers grafted on to macromolecular compounds obtained otherwise than by reactions only involving carbon-to-carbon unsaturated bonds	<a href="#">C08J 2451/08</a>
Characterised by the use of block copolymers containing at least one sequence of a polymer obtained by reactions only involving carbon-to-carbon unsaturated bonds; Derivatives of such polymers	<a href="#">C08J 2453/00</a>

**C08J 2493/00****References*****Informative references****Attention is drawn to the following places, which may be of interest for search:*

Characterised by the use of cellulose, modified cellulose or cellulose derivatives	<a href="#">C08J 2401/00</a>
Characterised by the use of starch, amylose or amylopectin or of their derivatives or degradation products	<a href="#">C08J 2403/00</a>
Characterised by the use of polysaccharides or of their derivatives	<a href="#">C08J 2405/00</a>
Characterised by the use of reclaimed rubber	<a href="#">C08J 2417/00</a>

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**C08J 2497/00****References*****Informative references***

*Attention is drawn to the following places, which may be of interest for search:*

Characterised by the use of cellulose, modified cellulose or cellulose derivatives	<a href="#">C08J 2401/00</a>
Characterised by the use of starch, amylose or amylopectin or of their derivatives or degradation products	<a href="#">C08J 2403/00</a>
Characterised by the use of polysaccharides or of their derivatives	<a href="#">C08J 2405/00</a>

**C10J 2200/06****References*****Informative references***

*Attention is drawn to the following places, which may be of interest for search:*

Gasification processes using catalysts as additives	<a href="#">C10J 2300/0986</a>
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**C10M 2201/06****References*****Informative references***

*Attention is drawn to the following places, which may be of interest for search:*

Chromium oxides, acids or salts	<a href="#">C10M 2201/086</a>
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**C10M 2201/08****References****Informative references**

*Attention is drawn to the following places, which may be of interest for search:*

Phosphorus oxides, acids or salts	<a href="#">C10M 2201/085</a>
Chromium oxides, acids or salts	<a href="#">C10M 2201/086</a>
Boron oxides, acids or salts	<a href="#">C10M 2201/087</a>
Oxides; Hydroxides; Carbonates or bicarbonates	<a href="#">C10M 2201/062</a>

**C10M 2201/082****References****Informative references**

*Attention is drawn to the following places, which may be of interest for search:*

Carbides; Hydrides; Nitrides	<a href="#">C10M 2201/061</a>
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**C10M 2201/084****References****Informative references**

*Attention is drawn to the following places, which may be of interest for search:*

Sulfides; Selenides; Tellurides	<a href="#">C10M 2201/065</a>
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**C10M 2207/28****References*****Informative references***

*Attention is drawn to the following places, which may be of interest for search:*

Epoxidised acids; Ester derivatives thereof	<a href="#">C10M 2207/24</a>
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**C10M 2209/00****References*****Informative references***

*Attention is drawn to the following places, which may be of interest for search:*

Oxidised hydrocarbons, i.e. oxidised subsequent to macromolecular formation	<a href="#">C10M 2205/12</a>
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**C10M 2215/02****References*****Informative references***

*Attention is drawn to the following places, which may be of interest for search:*

Polyamines, i.e. macromoleculars obtained by condensation of more than eleven amine monomers	<a href="#">C10M 2217/046</a>
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**C10M 2219/022****References*****Informative references***

*Attention is drawn to the following places, which may be of interest for search:*

Macromolecular compounds involving sulfurisation of macromolecular compounds, e.g. polyolefins	<a href="#">C10M 2221/041</a>
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**C10M 2221/02****References*****Informative references***

*Attention is drawn to the following places, which may be of interest for search:*

Macromolecular compounds involving sulfurisation of macromolecular compounds, e.g. polyolefins	<a href="#">C10M 2221/041</a>
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**C10M 2227/08****References*****Informative references***

*Attention is drawn to the following places, which may be of interest for search:*

Complexes with metals	<a href="#">C10M 2227/09</a>
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## **C12N 2310/18**

### **References**

#### ***Informative references***

*Attention is drawn to the following places, which may be of interest for search:*

Structure or type of nucleic acid, Aptamers	<a href="#">C12N 2310/16</a>
Structure or type of Immunomodulatory nucleic acids	<a href="#">C12N 2310/17</a>

## **C12N 2500/10**

### **References**

#### ***Informative references***

*Attention is drawn to the following places, which may be of interest for search:*

Vitamins of cell culture medium	<a href="#">C12N 2500/38</a>
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## **C12N 2500/22**

### **References**

#### ***Informative references***

*Attention is drawn to the following places, which may be of interest for search:*

Insulin used in cell culture processes, e.g. differentiation	<a href="#">C12N 2501/33</a>
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**C12N 2500/30****References****Informative references**

*Attention is drawn to the following places, which may be of interest for search:*

Metals; Metal chelators	<a href="#">C12N 2500/10</a>
Light metals, Calcium; Ca chelators; Calcitonin	<a href="#">C12N 2500/14</a>
Transition metals, Iron; Fe chelators; Transferrin	<a href="#">C12N 2500/24</a>

**C12N 2500/40****References****Informative references**

*Attention is drawn to the following places, which may be of interest for search:*

Modulators of cAMP or cGMP, e.g. non-hydrolysable analogues, phosphodiesterase inhibitors, cholera toxin	<a href="#">C12N 2501/01</a>
Anti-neoplastic drugs, anti-retroviral drugs, e.g. azacytidine, cyclophosphamide	<a href="#">C12N 2501/06</a>

**C12N 2500/70****References****Informative references**

*Attention is drawn to the following places, which may be of interest for search:*

Conditioned medium	<a href="#">C12N 2502/00</a>
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## C12N 2501/30

### References

#### *Informative references*

*Attention is drawn to the following places, which may be of interest for search:*

Hormones derived from pro-opiomelanocortin, pro-enkephalin or pro-dynorphin	<a href="#">C12N 2501/85</a>
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## C12N 2501/33

### References

#### *Informative references*

*Attention is drawn to the following places, which may be of interest for search:*

Insulin-transferrin; Insulin-transferrin-selenium	<a href="#">C12N 2500/25</a>
Insulin-like growth factors [IGF]	<a href="#">C12N 2501/105</a>

## C12N 2501/72

### References

#### *Informative references*

*Attention is drawn to the following places, which may be of interest for search:*

Modulators of histone acetylation	<a href="#">C12N 2501/065</a>
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**C12N 2533/30****References****Informative references***Attention is drawn to the following places, which may be of interest for search:*

Coating allowing for selective detachment of cells, e.g. thermoreactive coating	<a href="#">C12N 2539/10</a>
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**C12Q 2304/00****References****Informative references***Attention is drawn to the following places, which may be of interest for search:*

O-linked chromogens for determinations of hydrolase enzymes, e.g. glycosidases, phosphatases or esterases	<a href="#">C12Q 2334/00</a>
N-linked chromogens for determinations of peptidases and proteinases	<a href="#">C12Q 2337/00</a>

**G01N 2333/181****References****Informative references***Attention is drawn to the following places, which may be of interest for search:*

Assays involving biological materials from Rubella virus	<a href="#">G01N 2333/19</a>
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**G01N 2333/3156****References*****Informative references****Attention is drawn to the following places, which may be of interest for search:*

Assays involving biological materials from Streptokinase	<a href="#">G01N 2333/3153</a>
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**G01N 2333/575****References*****Informative references****Attention is drawn to the following places, which may be of interest for search:*

Assays involving proteins derived from pro-opiomelanocortin, pro-enkephalin or pro-dynorphin	<a href="#">G01N 2333/665</a>
Assays involving corticotropin [ACTH]	<a href="#">G01N 2333/695</a>

**G01N 2333/70575****References*****Informative references****Attention is drawn to the following places, which may be of interest for search:*

Nerve growth factor [NGF]	<a href="#">G01N 2333/48</a>
Assays involving tumor necrosis factor [TNF]	<a href="#">G01N 2333/525</a>

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**G01N 2333/70578****References*****Informative references****Attention is drawn to the following places, which may be of interest for search:*

Assays involving receptors, cell surface antigens or cell surface determinants, for growth factors; For growth regulators	<a href="#">G01N 2333/71</a>
Assays involving receptors, cell surface antigens or cell surface determinants for tumour necrosis factor [TNF]; For lymphotoxin [LT]	<a href="#">G01N 2333/7151</a>

**G01N 2333/72****References*****Informative references****Attention is drawn to the following places, which may be of interest for search:*

Assays involving receptors, cell surface antigens or cell surface determinants for neuromediators, e.g. serotonin receptor or dopamine receptor	<a href="#">G01N 2333/70571</a>
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**G01N 2400/02****References*****Informative references****Attention is drawn to the following places, which may be of interest for search:*

Assays involving biological materials from lectins, e.g. concanavalin or phytohaemagglutinin	<a href="#">G01N 2333/42</a>
Assays involving Lectins	<a href="#">G01N 2333/4724</a>

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**G01N 2400/38****References****Informative references***Attention is drawn to the following places, which may be of interest for search:*

Assays involving proteoglycans, e.g. aggrecan	<a href="#">G01N 2333/4722</a>
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**G01N 2405/00****References****Informative references***Attention is drawn to the following places, which may be of interest for search:*

Assays involving lipopolysaccharides [LPS]	<a href="#">G01N 2400/50</a>
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**G01N 2496/25****References****Informative references***Attention is drawn to the following places, which may be of interest for search:*

Assays involving casein	<a href="#">G01N 2333/4731</a>
Assays involving albumins other than in routine use for blocking surfaces or for anchoring haptens during immunisation	<a href="#">G01N 2333/76</a>
Polysaccharides, i.e. having more than five saccharide radicals attached to each other by glycosidic linkages; Derivatives thereof, e.g. ethers or esters	<a href="#">G01N 2400/10</a>

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**G01N 2496/45**

**References**

***Informative references***

*Attention is drawn to the following places, which may be of interest for search:*

Assays involving protease inhibitors	<a href="#">G01N 2333/81</a>
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**G01N 2800/24**

**References**

***Informative references***

*Attention is drawn to the following places, which may be of interest for search:*

Detection or diagnosis of lupus erythematosus [SLE]	<a href="#">G01N 2800/104</a>
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**G01V 2210/20**

**References**

***Informative references***

*Attention is drawn to the following places, which may be of interest for search:*

Noise reduction	<a href="#">G01V 2210/32</a>
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## **G01V 2210/30**

### **References**

#### ***Informative references***

*Attention is drawn to the following places, which may be of interest for search:*

Trace signal pre-filtering to select, remove or transform specific events or signal components, i.e. trace-in/trace-out	<a href="#">G01V 2210/20</a>
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## **G01V 2210/34**

### **References**

#### ***Informative references***

*Attention is drawn to the following places, which may be of interest for search:*

Quality control of seismic or acoustic prospecting or detecting	<a href="#">G01V 2210/14</a>
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## **G01V 2210/40**

### **References**

#### ***Informative references***

*Attention is drawn to the following places, which may be of interest for search:*

Trace signal pre-filtering to select, remove or transform specific events or signal components, i.e. trace-in/trace-out	<a href="#">G01V 2210/20</a>
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**G01V 2210/50**

**References**

***Informative references***

*Attention is drawn to the following places, which may be of interest for search:*

Noise handling in seismic processing or analysis	<a href="#">G01V 2210/30</a>
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**G03G 2215/0426**

**References**

***Informative references***

*Attention is drawn to the following places, which may be of interest for search:*

Arrangements for exposing and producing an image by changing or enhancing the image	<a href="#">G03G 2215/0429</a>
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**G03G 2221/1648**

**References**

***Informative references***

*Attention is drawn to the following places, which may be of interest for search:*

Protective arrangements for preventing damage to the photosensitive element	<a href="#">G03G 2221/1609</a>
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## **G03H 2001/0016**

### **References**

#### ***Informative references***

*Attention is drawn to the following places, which may be of interest for search:*

Microhologram not registered to the substrate	<a href="#">G03H 2230/10</a>
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## **G03H 2001/0204**

### **References**

#### ***Informative references***

*Attention is drawn to the following places, which may be of interest for search:*

Object characteristics for holographic processes or apparatus	<a href="#">G03H 2210/00</a>
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## **G03H 2001/022**

### **References**

#### ***Informative references***

*Attention is drawn to the following places, which may be of interest for search:*

Writing means other than actinic light wave	<a href="#">G03H 2224/00</a>
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## **G03H 2001/0224**

### **References**

#### ***Informative references***

*Attention is drawn to the following places, which may be of interest for search:*

Active addressable light modulator	<a href="#">G03H 2225/00</a>
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## **G03H 2001/0232**

### **References**

#### ***Informative references***

*Attention is drawn to the following places, which may be of interest for search:*

Mechanical components or mechanical aspects	<a href="#">G03H 2227/00</a>
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## **G03H 2001/0436**

### **References**

#### ***Informative references***

*Attention is drawn to the following places, which may be of interest for search:*

Handheld portable device, e.g. holographic camera, mobile holographic display	<a href="#">G03H 2227/02</a>
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## **G03H 2001/0452**

### **References**

#### ***Informative references***

*Attention is drawn to the following places, which may be of interest for search:*

Adaptation of holography in microscopy, e.g. digital holographic microscope [DHM]	<a href="#">G03H 2001/005</a>
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## **G03H 2001/188**

### **References**

#### ***Informative references***

*Attention is drawn to the following places, which may be of interest for search:*

Laminate comprising a hologram layer, conform enhancement layer	<a href="#">G03H 2250/36</a>
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## **G03H 2210/22**

### **References**

#### ***Informative references***

*Attention is drawn to the following places, which may be of interest for search:*

Active addressable light modulator, i.e. Spatial Light Modulator [SLM]	<a href="#">G03H 2001/0224</a>
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## **G03H 2222/55**

### **References**

#### ***Informative references***

*Attention is drawn to the following places, which may be of interest for search:*

Anamorphic optical element, e.g. cylindrical	<a href="#">G03H 2223/21</a>
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## **G03H 2223/21**

### **References**

#### **Informative references**

*Attention is drawn to the following places, which may be of interest for search:*

Astigmatic beam having different focal planes	<a href="#">G03H 2222/55</a>
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## **G03H 2224/06**

### **References**

#### **Informative references**

*Attention is drawn to the following places, which may be of interest for search:*

Light sources or light beam spectral composition being infrared [IR]	<a href="#">G03H 2222/16</a>
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## **G03H 2250/10**

### **References**

#### **Informative references**

*Attention is drawn to the following places, which may be of interest for search:*

Laminate comprising a hologram adhesive layer	<a href="#">G03H 2250/35</a>
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**G03H 2260/50****References*****Informative references****Attention is drawn to the following places, which may be of interest for search:*

Light sources or light beam properties	<a href="#">G03H 2001/0212</a>
Writing means other than actinic light wave	<a href="#">G03H 2001/022</a>

**G03H 2260/63****References*****Informative references****Attention is drawn to the following places, which may be of interest for search:*

Photoresist	<a href="#">G03H 2260/14</a>
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**G06F 2207/382****References*****Informative references****Attention is drawn to the following places, which may be of interest for search:*

Multigauge devices, i.e. capable of handling packed numbers without unpacking them	<a href="#">G06F 2207/3828</a>
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## **G10H 2210/00**

### **References**

#### ***Informative references***

*Attention is drawn to the following places, which may be of interest for search:*

Aspects of algorithms or signal processing methods without intrinsic musical character, yet specifically adapted for or used in electrophonic musical processing	<a href="#">G10H 2250/00</a>
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## **G10H 2210/005**

### **References**

#### ***Informative references***

*Attention is drawn to the following places, which may be of interest for search:*

Background music, e.g. for video sequences or elevator music	<a href="#">G10H 2210/021</a>
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## **G10H 2210/021**

### **References**

#### ***Informative references***

*Attention is drawn to the following places, which may be of interest for search:*

Musical accompaniment, i.e. complete instrumental rhythm synthesis added to a performed melody, e.g. as output by drum machines	<a href="#">G10H 2210/005</a>
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**G10H 2210/031****References*****Informative references****Attention is drawn to the following places, which may be of interest for search:*

Neural networks for electrophonic musical instruments or musical processing, e.g. for musical recognition or control, automatic composition or improvisation	<a href="#">G10H 2250/311</a>
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**G10H 2210/071****References*****Informative references****Attention is drawn to the following places, which may be of interest for search:*

Rhythm pattern selection, synthesis or composition	<a href="#">G10H 2210/341</a>
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**G10H 2210/076****References*****Informative references****Attention is drawn to the following places, which may be of interest for search:*

Beat indicator, e.g. marks or flashing LEDs to indicate tempo or beat positions	<a href="#">G10H 2220/081</a>
Tempo or beat alterations; Music timing control	<a href="#">G10H 2210/375</a>

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**G10H 2210/115****References****Informative references**

*Attention is drawn to the following places, which may be of interest for search:*

Random process used to build a rhythm pattern	<a href="#">G10H 2210/356</a>
Random process affecting a selection among a set of pre-established patterns	<a href="#">G10H 2210/366</a>

**G10H 2210/161****References****Informative references**

*Attention is drawn to the following places, which may be of interest for search:*

Vibrato, i.e. rapid, repetitive and smooth variation of amplitude, pitch or timbre within a note or chord	<a href="#">G10H 2210/201</a>
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**G10H 2210/191****References****Informative references**

*Attention is drawn to the following places, which may be of interest for search:*

Note sequence effects, i.e. sensing, altering, controlling, processing or synthesising a note trigger selection or sequence, e.g. by altering trigger timing, triggered note values, adding improvisation or ornaments or also rapid repetition of the same note onset	<a href="#">G10H 2210/161</a>
Amplitude vibrato, i.e. repetitive smooth loudness variation without pitch change or rapid repetition of the same note, bisbigliando, amplitude tremolo or tremulants	<a href="#">G10H 2210/205</a>

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**G10H 2210/195****References*****Informative references****Attention is drawn to the following places, which may be of interest for search:*

Note sequence effects, i.e. sensing, altering, controlling, processing or synthesising a note trigger selection or sequence, e.g. by altering trigger timing, triggered note values, adding improvisation or ornaments or also rapid repetition of the same note onset	<a href="#">G10H 2210/161</a>
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**G10H 2210/201****References*****Informative references****Attention is drawn to the following places, which may be of interest for search:*

Note sequence effects, i.e. sensing, altering, controlling, processing or synthesising a note trigger selection or sequence, e.g. by altering trigger timing, triggered note values, adding improvisation or ornaments or also rapid repetition of the same note onset	<a href="#">G10H 2210/161</a>
Tremolo, tremulando, trill or mordent effects, i.e. repeatedly alternating stepwise in pitch between two note pitches or chords, without any portamento between the two notes	<a href="#">G10H 2210/191</a>



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**G10H 2210/205****References*****Informative references****Attention is drawn to the following places, which may be of interest for search:*

Note sequence effects, i.e. sensing, altering, controlling, processing or synthesising a note trigger selection or sequence, e.g. by altering trigger timing, triggered note values, adding improvisation or ornaments or also rapid repetition of the same note onset	<a href="#">G10H 2210/161</a>
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**G10H 2210/211****References*****Informative references****Attention is drawn to the following places, which may be of interest for search:*

Keyboards, i.e. configuration of several keys or key-like input devices relative to one another	<a href="#">G10H 2220/221</a>
Tremolo, tremulando, trill or mordent effects, i.e. repeatedly alternating stepwise in pitch between two note pitches or chords, without any portamento between the two notes	<a href="#">G10H 2210/191</a>

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**G10H 2210/221****References*****Informative references***

*Attention is drawn to the following places, which may be of interest for search:*

Arpeggio, i.e. notes played or sung in rapid sequence, one after the other, rather than ringing out simultaneously, e.g. as a chord; Generators therefor, i.e. arpeggiators; Discrete glissando effects on instruments not permitting continuous glissando, e.g. xylophone or piano, with stepwise pitch variation and on which distinct onsets due to successive note triggerings can be heard	<a href="#">G10H 2210/185</a>
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**G10H 2210/225****References*****Informative references***

*Attention is drawn to the following places, which may be of interest for search:*

Glissando, i.e. pitch smoothly sliding from one note to another, e.g. gliss, glide, slide, bend smear or sweep	<a href="#">G10H 2210/221</a>
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**G10H 2210/265****References*****Informative references***

*Attention is drawn to the following places, which may be of interest for search:*

Formant synthesis, i.e. simulating the human speech production mechanism by exciting formant resonators, e.g. mimicking vocal tract filtering as in LPC synthesis vocoders, wherein musical instruments may be used as excitation signal to the time-varying filter estimated from a singer's speech	<a href="#">G10H 2210/481</a>
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Room models, i.e. acoustic physical modelling of a room, e.g. concert hall	<a href="#">G10H 2250/531</a>
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**G10H 2210/295****References*****Informative references***

*Attention is drawn to the following places, which may be of interest for search:*

Helmholtz resonance effect, i.e. using, exciting or emulating air resonance in a cavity	<a href="#">G10H 2210/275</a>
Acoustic effect simulation, reverberation or echo	<a href="#">G10H 2210/281</a>

**G10H 2210/311****References*****Informative references***

*Attention is drawn to the following places, which may be of interest for search:*

Parabolic or second order polynomials, occurring, e.g. in vacuum tube distortion modelling or for modelling the gate voltage to drain current relationship of a JFET	<a href="#">G10H 2250/201</a>
Third order polynomials, occurring, e.g. in vacuum tube distortion modelling	<a href="#">G10H 2250/205</a>

**G10H 2210/315****References*****Informative references***

*Attention is drawn to the following places, which may be of interest for search:*

Envelope processing of music signals in, e.g. time domain, transform domain or cepstrum domain	<a href="#">G10H 2250/025</a>
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**G10H 2210/325****References*****Informative references****Attention is drawn to the following places, which may be of interest for search:*

Pitch analysis as part of wider processing for musical purposes, e.g. transcription, musical performance evaluation; Pitch recognition, e.g. in polyphonic sounds; Estimation or use of missing fundamental	<a href="#">G10H 2210/066</a>
Musical effects	<a href="#">G10H 2210/155</a>

**G10H 2210/335****References*****Informative references****Attention is drawn to the following places, which may be of interest for search:*

Natural chords, i.e. adjustment of individual note pitches in order to generate just intonation chords	<a href="#">G10H 2210/586</a>
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**G10H 2210/341****References*****Informative references****Attention is drawn to the following places, which may be of interest for search:*

Musical rhythm pattern analysis or rhythm style recognition	<a href="#">G10H 2210/071</a>
Musical accompaniment, i.e. complete instrumental rhythm synthesis added to a performed melody, e.g. as output by drum machines	<a href="#">G10H 2210/005</a>

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**G10H 2210/346****References*****Informative references****Attention is drawn to the following places, which may be of interest for search:*

Musical accompaniment, i.e. complete instrumental rhythm synthesis added to a performed melody, e.g. as output by drum machines	<a href="#">G10H 2210/005</a>
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**G10H 2210/375****References*****Informative references****Attention is drawn to the following places, which may be of interest for search:*

Beat indicator, e.g. marks or flashing LEDs to indicate tempo or beat positions	<a href="#">G10H 2220/081</a>
Musical analysis for extraction of timing, tempo; Beat detection	<a href="#">G10H 2210/076</a>
Humanizing effects, i.e. causing a performance to sound less machine-like, e.g. by slightly randomising pitch or tempo	<a href="#">G10H 2210/165</a>
Scratch effects, i.e. emulating playback velocity or pitch manipulation effects normally obtained by a disc-jockey manually rotating a LP record forward and backward	<a href="#">G10H 2210/241</a>

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## **G10H 2210/381**

### **References**

#### ***Informative references***

*Attention is drawn to the following places, which may be of interest for search:*

Conductor baton movement detection used to adjust rhythm, tempo or expressivity of, e.g. the playback of musical pieces	<a href="#">G10H 2220/206</a>
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## **G10H 2210/385**

### **References**

#### ***Informative references***

*Attention is drawn to the following places, which may be of interest for search:*

Scratch effects, i.e. emulating playback velocity or pitch manipulation effects normally obtained by a disc-jockey manually rotating a LP record forward and backward	<a href="#">G10H 2210/241</a>
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## **G10H 2210/395**

### **References**

#### ***Informative references***

*Attention is drawn to the following places, which may be of interest for search:*

Keyboards, i.e. configuration of several keys or key-like input devices relative to one another	<a href="#">G10H 2220/221</a>
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## **G10H 2210/431**

### **References**

#### ***Informative references***

*Attention is drawn to the following places, which may be of interest for search:*

Arabic scales, i.e. either double harmonic scale or major locrian scale; Vosta or zaid modes	<a href="#">G10H 2210/511</a>
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## **G10H 2210/441**

### **References**

#### ***Informative references***

*Attention is drawn to the following places, which may be of interest for search:*

Keyboards ergonomically organised for playing chords or for transposing, e.g. Janko keyboard	<a href="#">G10H 2220/251</a>
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## **G10H 2210/461**

### **References**

#### ***Informative references***

*Attention is drawn to the following places, which may be of interest for search:*

Keyboards ergonomically organised for playing chords or for transposing, e.g. Janko keyboard	<a href="#">G10H 2220/251</a>
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**G10H 2210/471****References*****Informative references****Attention is drawn to the following places, which may be of interest for search:*

Natural chords, i.e. adjustment of individual note pitches in order to generate just intonation chords	<a href="#">G10H 2210/586</a>
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**G10H 2210/506****References*****Informative references****Attention is drawn to the following places, which may be of interest for search:*

Holder scale or Holdrian comma, i.e. 53 equal intervals per octave, with 31 intervals equal to an almost just perfect fifth; Keyboards therefor, e.g. "generalized keyboard" of Robert Holford Macdowall Bosanquet	<a href="#">G10H 2210/451</a>
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**G10H 2210/511****References*****Informative references****Attention is drawn to the following places, which may be of interest for search:*

Equally tempered scale, i.e. note tuning scale in which every pair of adjacent notes has an identical frequency ratio equal to 2 to the power $1/n$ if the scale has $n$ notes per octave	<a href="#">G10H 2210/415</a>
Quarter tone scale, i.e. 24 equal intervals per octave, e.g. for Arabic music	<a href="#">G10H 2210/431</a>



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## **G10H 2210/515**

### **References**

#### ***Informative references***

*Attention is drawn to the following places, which may be of interest for search:*

Pentatonal or pentatonic scale, i.e. five pitches or notes per octave, e.g. basic Chinese musical scale, black piano keys, Javanese gamelan slendro scale or Japanese shakuhachi flute	<a href="#">G10H 2210/541</a>
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## **G10H 2210/531**

### **References**

#### ***Informative references***

*Attention is drawn to the following places, which may be of interest for search:*

Hexatonal or hexatonic scales, i.e. six pitches or notes per octave, e.g. whole tone scale, augmented scale, Prometheus scale or blues scale	<a href="#">G10H 2210/535</a>
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## **G10H 2210/541**

### **References**

#### ***Informative references***

*Attention is drawn to the following places, which may be of interest for search:*

Balinese pentatonic scales, e.g. Balinese slendro scale, or five-tone modes of the heptatonic pelog scale, itself substantially a 7-note subset of 9-tone equal temperament	<a href="#">G10H 2210/515</a>
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**G10H 2210/555****References*****Informative references****Attention is drawn to the following places, which may be of interest for search:*

Musical analysis for automatic key or tonality recognition, e.g. using musical rules or a knowledge base	<a href="#">G10H 2210/081</a>
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**G10H 2210/571****References*****Informative references****Attention is drawn to the following places, which may be of interest for search:*

Spint accordion, i.e. mimicking accordions; Electroponic instruments with one or more typical accordion features, e.g. special accordion keyboards or bellows, electroponic aspects of mechanical accordions, MIDI-like control therefor	<a href="#">G10H 2230/245</a>
Keyboards ergonomically organised for playing chords or for transposing, e.g. Janko keyboard	<a href="#">G10H 2220/251</a>

**G10H 2210/586****References*****Informative references****Attention is drawn to the following places, which may be of interest for search:*

Natural or just intonation scales, i.e. based on harmonics consonance such that most adjacent pitches are related by harmonically pure ratios of small integers	<a href="#">G10H 2210/471</a>
Chord correction, i.e. modifying one or several notes within a chord, e.g. to correct wrong fingering or to improve harmony	<a href="#">G10H 2210/335</a>

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Musical analysis, i.e. isolation, extraction or identification of musical elements or musical parameters from a raw acoustic signal or from an encoded audio signal	<a href="#">G10H 2210/031</a>
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**G10H 2220/005****References*****Informative references***

*Attention is drawn to the following places, which may be of interest for search:*

Graphical user interface [GUI] specifically adapted for electrophonic musical instruments, e.g. interactive musical displays, musical instrument icons or menus; Details of user interactions therewith	<a href="#">G10H 2220/091</a>
Remote key fingering indicator, i.e. fingering shown on a display separate from the instrument itself or substantially disjoint from the keys	<a href="#">G10H 2220/041</a>

**G10H 2220/015****References*****Informative references***

*Attention is drawn to the following places, which may be of interest for search:*

Graphical user interface [GUI] for graphical editing of a musical score, staff or tablature	<a href="#">G10H 2220/121</a>
Musical analysis for transcription of raw audio or music data to a displayed or printed staff representation or to displayable MIDI-like note-oriented data, e.g. in piano roll format	<a href="#">G10H 2210/086</a>

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**G10H 2220/021****References****Informative references**

*Attention is drawn to the following places, which may be of interest for search:*

Non-interactive screen display of musical or status data	<a href="#">G10H 2220/005</a>
Graphical user interface [GUI] specifically adapted for electrophonic musical instruments, e.g. interactive musical displays, musical instrument icons or menus; Details of user interactions therewith	<a href="#">G10H 2220/091</a>
Key design details; Special characteristics of individual keys of a keyboard, with controlled tactile or haptic feedback effect; Output interfaces therefor	<a href="#">G10H 2220/311</a>

**G10H 2220/081****References****Informative references**

*Attention is drawn to the following places, which may be of interest for search:*

Musical analysis for extraction of timing, tempo; Beat detection	<a href="#">G10H 2210/076</a>
Tempo or beat alterations; Music timing control	<a href="#">G10H 2210/375</a>
Rhythm pattern selection, synthesis or composition	<a href="#">G10H 2210/341</a>

**G10H 2220/086****References****Informative references**

*Attention is drawn to the following places, which may be of interest for search:*

Musical analysis for extraction of timing, tempo; Beat detection	<a href="#">G10H 2210/076</a>
Tempo or beat alterations; Music timing control	<a href="#">G10H 2210/375</a>

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**G10H 2220/096****References*****Informative references****Attention is drawn to the following places, which may be of interest for search:*

Keyboards on touchscreens, i.e. keys, frets, strings, tablature or staff displayed on a touchscreen display for note input purposes	<a href="#">G10H 2220/241</a>
Personal digital assistant [PDA] or palmtop computing devices used for musical purposes, e.g. portable music players, tablet computers, e-readers or smart phones in which mobile telephony functions need not be used	<a href="#">G10H 2230/015</a>

**G10H 2220/111****References*****Informative references****Attention is drawn to the following places, which may be of interest for search:*

Source positioning in a soundscape, e.g. instrument positioning on a virtual soundstage, stereo panning or related delay or reverberation changes; Changing the stereo width of a musical source	<a href="#">G10H 2210/305</a>
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**G10H 2220/116****References*****Informative references****Attention is drawn to the following places, which may be of interest for search:*

Waveform editing, i.e. setting or modifying parameters for waveform synthesis	<a href="#">G10H 2250/615</a>
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**G10H 2220/121****References*****Informative references****Attention is drawn to the following places, which may be of interest for search:*

Musical staff, tablature or score displays, e.g. for score reading during a performance	<a href="#">G10H 2220/015</a>
Musical analysis for transcription of raw audio or music data to a displayed or printed staff representation or to displayable MIDI-like note-oriented data, e.g. in piano roll format	<a href="#">G10H 2210/086</a>

**G10H 2220/135****References*****Informative references****Attention is drawn to the following places, which may be of interest for search:*

Background music for games, e.g. videogames	<a href="#">G10H 2210/026</a>
Musical analysis for performance evaluation, i.e. judging, grading or scoring the musical qualities or faithfulness of a performance, e.g. with respect to pitch, tempo or other timings of a reference performance	<a href="#">G10H 2210/091</a>

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**G10H 2220/161****References*****Informative references***

*Attention is drawn to the following places, which may be of interest for search:*

Graphical user interface [GUI] specifically adapted for electrophonic musical instruments, e.g. interactive musical displays, musical instrument icons or menus	<a href="#">G10H 2220/091</a>
Microtonal scale, i.e. continuous scale of pitches, also interval-free input devices, e.g. continuous keyboards for violin, singing voice or trombone synthesis	<a href="#">G10H 2210/401</a>

**G10H 2220/165****References*****Informative references***

*Attention is drawn to the following places, which may be of interest for search:*

Transducers, i.e. details, positioning or use of assemblies to detect and convert mechanical vibrations or mechanical strains into an electrical signal, e.g. audio, trigger or control signal	<a href="#">G10H 2220/461</a>
Plectrum or pick sensing, e.g. for detection of string striking or plucking	<a href="#">G10H 2220/191</a>
Fret-like switch array arrangements for guitar necks	<a href="#">G10H 2220/301</a>

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**G10H 2220/175**

**References**

**Informative references**

*Attention is drawn to the following places, which may be of interest for search:*

Piezoelectric transducers for vibration sensing or vibration excitation in the audio range; Piezoelectric strain sensing, e.g. as key velocity sensor; Piezoelectric actuators, e.g. key actuation in response to a control voltage	<a href="#">G10H 2220/525</a>
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**G10H 2220/185**

**References**

**Informative references**

*Attention is drawn to the following places, which may be of interest for search:*

Conductor baton movement detection used to adjust rhythm, tempo or expressivity of, e.g. the playback of musical pieces	<a href="#">G10H 2220/206</a>
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**G10H 2220/221**

**References**

**Informative references**

*Attention is drawn to the following places, which may be of interest for search:*

Key design details; Special characteristics of individual keys of a keyboard; Key-like musical input devices, e.g. finger sensors, pedals, potentiometers or selectors	<a href="#">G10H 2220/265</a>
Special musical scales, i.e. other than the 12-interval equally tempered scale; Special input devices therefor	<a href="#">G10H 2210/395</a>
Switch matrix, e.g. contact array common to several keys, the actuated keys being identified by the rows and columns in contact	<a href="#">G10H 2220/295</a>



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**G10H 2220/236****References*****Informative references****Attention is drawn to the following places, which may be of interest for search:*

Keyboards on touchscreens, i.e. keys, frets, strings, tablature or staff displayed on a touchscreen display for note input purposes	<a href="#">G10H 2220/241</a>
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**G10H 2220/251****References*****Informative references****Attention is drawn to the following places, which may be of interest for search:*

Spint accordion, i.e. mimicking accordions; Electroponic instruments with one or more typical accordion features, e.g. special accordion keyboards or bellows, electroponic aspects of mechanical accordions, MIDI-like control therefor	<a href="#">G10H 2230/245</a>
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**G10H 2220/265****References*****Informative references****Attention is drawn to the following places, which may be of interest for search:*

Keyboards, i.e. configuration of several keys or key-like input devices relative to one another	<a href="#">G10H 2220/221</a>
Special musical scales, i.e. other than the 12-interval equally tempered scale; Special input devices therefor	<a href="#">G10H 2210/395</a>

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**G10H 2220/271****References*****Informative references****Attention is drawn to the following places, which may be of interest for search:*

Keyboards, i.e. configuration of several keys or key-like input devices relative to one another	<a href="#">G10H 2220/221</a>
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**G10H 2220/305****References*****Informative references****Attention is drawn to the following places, which may be of interest for search:*

Beam sensing or control, light beams	<a href="#">G10H 2220/411</a>
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**G10H 2220/336****References*****Informative references****Attention is drawn to the following places, which may be of interest for search:*

Garment sensors, i.e. musical control means with trigger surfaces or joint angle sensors, worn as a garment by the player, e.g. bracelet or intelligent clothing	<a href="#">G10H 2220/321</a>
Floor sensors, e.g. platform or groundsheet with sensors to detect foot position, balance or pressure, steps, stepping rhythm, dancing movements or jumping	<a href="#">G10H 2220/341</a>

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**G10H 2220/341****References****Informative references**

*Attention is drawn to the following places, which may be of interest for search:*

Control shoe or boot, i.e. sensor-equipped lower part of lower limb, e.g. shoe, toe ring, sock, ankle bracelet or leg control attachment	<a href="#">G10H 2220/336</a>
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**G10H 2220/365****References****Informative references**

*Attention is drawn to the following places, which may be of interest for search:*

Bowed string instrument sound generation, controlling specific features of said sound, e.g. use of fret or bow control parameters for violin effects synthesis	<a href="#">G10H 2250/445</a>
Spint stringed, i.e. mimicking stringed instrument features, electrophonic aspects of acoustic stringed musical instruments without keyboard; MIDI-like control therefor	<a href="#">G10H 2230/075</a>

**G10H 2220/371****References****Informative references**

*Attention is drawn to the following places, which may be of interest for search:*

Garment sensors, i.e. musical control means with trigger surfaces or joint angle sensors, worn as a garment by the player, e.g. bracelet or intelligent clothing	<a href="#">G10H 2220/321</a>
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**G10H 2220/391**

**References**

***Informative references***

*Attention is drawn to the following places, which may be of interest for search:*

Acceleration sensing or accelerometer use, e.g. 3D movement computation by integration of accelerometer data, angle sensing with respect to the vertical, i.e. gravity sensing	<a href="#">G10H 2220/395</a>
User input interfaces for electrophonic musical instruments with 3D sensing, i.e. three-dimensional (x, y, z) position or movement sensing	<a href="#">G10H 2220/401</a>
Garment sensors, i.e. musical control means with trigger surfaces or joint angle sensors, worn as a garment by the player, e.g. bracelet or intelligent clothing	<a href="#">G10H 2220/321</a>

**G10H 2220/395**

**References**

***Informative references***

*Attention is drawn to the following places, which may be of interest for search:*

Conductor baton movement detection used to adjust rhythm, tempo or expressivity of, e.g. the playback of musical pieces	<a href="#">G10H 2220/206</a>
Angle sensing for musical purposes, using data from a gyroscope, gyrometer or other angular velocity or angular movement sensing device	<a href="#">G10H 2220/391</a>
Garment sensors, i.e. musical control means with trigger surfaces or joint angle sensors, worn as a garment by the player, e.g. bracelet or intelligent clothing	<a href="#">G10H 2220/321</a>

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**G10H 2220/401****References*****Informative references***

*Attention is drawn to the following places, which may be of interest for search:*

User input interfaces for electrophonic musical instruments for movement interpretation, i.e. capturing and recognizing a gesture or a specific kind of movement, e.g. to control a musical instrument	<a href="#">G10H 2220/201</a>
Geolocation input, i.e. control of musical parameters based on location or geographic position, e.g. provided by GPS, WiFi network location databases or mobile phone base station position databases	<a href="#">G10H 2220/355</a>
Acceleration sensing or accelerometer use, e.g. 3D movement computation by integration of accelerometer data, angle sensing with respect to the vertical, i.e. gravity sensing	<a href="#">G10H 2220/395</a>

**G10H 2220/405****References*****Informative references***

*Attention is drawn to the following places, which may be of interest for search:*

Spint theremin, i.e. mimicking electrophonic musical instruments in which tones are controlled or triggered in a touch-free manner by interaction with beams, jets or fields, e.g. theremin, air guitar or water jet controlled musical instrument, i.e. hydrolauphone	<a href="#">G10H 2230/051</a>
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## **G10H 2220/411**

### **References**

#### ***Informative references***

*Attention is drawn to the following places, which may be of interest for search:*

Special characteristics of individual keys of a keyboard using a light beam to detect key, pedal or note actuation	<a href="#">G10H 2220/305</a>
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## **G10H 2220/565**

### **References**

#### ***Informative references***

*Attention is drawn to the following places, which may be of interest for search:*

Dual coil electrodynamic string transducer, e.g. for humbucking, to cancel out parasitic magnetic fields	<a href="#">G10H 2220/505</a>
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## **G10H 2230/015**

### **References**

#### ***Informative references***

*Attention is drawn to the following places, which may be of interest for search:*

Graphical user interface [GUI] specifically adapted for electrophonic musical instruments using a touch screen	<a href="#">G10H 2220/096</a>
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## **G10H 2230/021**

### **References**

#### ***Informative references***

*Attention is drawn to the following places, which may be of interest for search:*

Mobile telephone transmission, i.e. transmitting, accessing or controlling music data wirelessly via a wireless or mobile telephone receiver, analogue or digital, e.g. DECT GSM or UMTS	<a href="#">G10H 2240/251</a>
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## **G10H 2230/075**

### **References**

#### ***Informative references***

*Attention is drawn to the following places, which may be of interest for search:*

Gensound string, i.e. generating the sound of a string instrument, controlling specific features of said sound	<a href="#">G10H 2250/441</a>
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## **G10H 2230/105**

### **References**

#### ***Informative references***

*Attention is drawn to the following places, which may be of interest for search:*

Spint zither, i.e. mimicking any neckless stringed instrument in which the strings do not extend beyond the sounding board	<a href="#">G10H 2230/095</a>
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**G10H 2230/121****References****Informative references**

*Attention is drawn to the following places, which may be of interest for search:*

Spint banjo, i.e. mimicking a stringed instrument with a piece of plastic or animal skin stretched over a circular frame or gourd, e.g. shamisen or other skin-covered lutes	<a href="#">G10H 2230/151</a>
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**G10H 2230/155****References****Informative references**

*Attention is drawn to the following places, which may be of interest for search:*

Gensound wind instruments, i.e. generating or synthesising the sound of a wind instrument, controlling specific features of said sound	<a href="#">G10H 2250/461</a>
Mouth control in general, i.e. breath, mouth, teeth, tongue or lip-controlled input devices or sensors detecting, e.g. lip position, lip vibration, air pressure, air velocity, air flow or air jet angle	<a href="#">G10H 2220/361</a>
Natural aerodynamic noises, e.g. wind gust sounds, rustling leaves or beating sails	<a href="#">G10H 2250/431</a>

**G10H 2230/181****References****Informative references**

*Attention is drawn to the following places, which may be of interest for search:*

Microtonal scale, i.e. continuous scale of pitches, also interval-free input devices, e.g. continuous keyboards for violin, singing voice or trombone synthesis	<a href="#">G10H 2210/401</a>
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## G10H 2230/185

### References

#### *Informative references*

*Attention is drawn to the following places, which may be of interest for search:*

Spint clarinet, i.e. mimicking any member of the single reed cylindrical bore woodwind instrument family, e.g. piccolo clarinet, octocontrabass, chalumeau, hornpipes or zhaleika	<a href="#">G10H 2230/241</a>
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## G10H 2230/191

### References

#### *Informative references*

*Attention is drawn to the following places, which may be of interest for search:*

Spint wind instrument, Spint English horn	<a href="#">G10H 2230/231</a>
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## G10H 2230/195

### References

#### *Informative references*

*Attention is drawn to the following places, which may be of interest for search:*

Mouth control in general, i.e. breath, mouth, teeth, tongue or lip-controlled input devices or sensors detecting, e.g. lip position, lip vibration, air pressure, air velocity, air flow or air jet angle	<a href="#">G10H 2220/361</a>
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Spint whistle, i.e. mimicking wind instruments in which the air is split against an edge, e.g. musical whistles, three tone samba whistle, penny whistle or pea whistle; Whistle-emulating mouth interfaces; MIDI control therefor, e.g. for calliope	<a href="#">G10H 2230/161</a>
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## **G10H 2230/201**

### **References**

#### ***Informative references***

*Attention is drawn to the following places, which may be of interest for search:*

Spint clarinet, i.e. mimicking any member of the single reed cylindrical bore woodwind instrument family, e.g. piccolo clarinet, octocontrabass, chalumeau, hornpipes or zhaleika	<a href="#">G10H 2230/241</a>
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## **G10H 2230/211**

### **References**

#### ***Informative references***

*Attention is drawn to the following places, which may be of interest for search:*

Spint accordion, i.e. mimicking accordions; Electroponic instruments with one or more typical accordion features, e.g. special accordion keyboards or bellows, electroponic aspects of mechanical accordions, MIDI-like control therefor	<a href="#">G10H 2230/245</a>
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## G10H 2230/251

### References

#### *Informative references*

*Attention is drawn to the following places, which may be of interest for search:*

Gensound percussion, i.e. generating or synthesising the sound of a percussion instrument; Control of specific aspects of percussion sounds, e.g. harmonics, under the influence of hitting force, hitting position, settings or striking instruments such as mallet, drumstick, brush or hand	<a href="#">G10H 2250/435</a>
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## G10H 2230/281

### References

#### *Informative references*

*Attention is drawn to the following places, which may be of interest for search:*

Spint xylophone, i.e. mimicking any multi-toned percussion instrument with a multiplicity of tuned resonating bodies, regardless of their material or shape, e.g. xylophone, vibraphone, lithophone, metallophone, marimba, balafon, ranat, gambang or angklung	<a href="#">G10H 2230/255</a>
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## G10H 2240/016

### References

#### *Informative references*

*Attention is drawn to the following places, which may be of interest for search:*

Graphical user interface [GUI] specifically adapted for electrophonic musical instruments, e.g. interactive musical displays, musical instrument icons or menus; Details of user interactions therewith	<a href="#">G10H 2220/091</a>
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## **G10H 2240/046**

### **References**

#### ***Informative references***

*Attention is drawn to the following places, which may be of interest for search:*

Details of musical waveform synthesis, i.e. audio waveshape processing from individual wavetable samples, independently of their origin or of the sound they represent	<a href="#">G10H 2250/541</a>
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## **G10H 2240/066**

### **References**

#### ***Informative references***

*Attention is drawn to the following places, which may be of interest for search:*

File format, MP3, i.e. MPEG-1 or MPEG-2 Audio Layer III, lossy audio compression	<a href="#">G10H 2240/061</a>
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## **G10H 2240/081**

### **References**

#### ***Informative references***

*Attention is drawn to the following places, which may be of interest for search:*

Musical analysis of musical genre, i.e. analysing the style of musical pieces, usually for selection, filtering or classification	<a href="#">G10H 2210/036</a>
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## **G10H 2240/091**

### **References**

#### ***Informative references***

*Attention is drawn to the following places, which may be of interest for search:*

Musical metadata derived from musical analysis or for use in electrophonic musical instruments	<a href="#">G10H 2240/075</a>
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## **G10H 2240/151**

### **References**

#### ***Informative references***

*Attention is drawn to the following places, which may be of interest for search:*

Musical analysis for extraction of musical phrases, isolation of musically relevant segments, e.g. musical thumbnail generation, or for temporal structure analysis of a musical piece, e.g. determination of the movement sequence of a musical work	<a href="#">G10H 2210/061</a>
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## **G10H 2240/155**

### **References**

#### ***Informative references***

*Attention is drawn to the following places, which may be of interest for search:*

Data structures for use in electrophonic musical devices; Data structures including musical parameters derived from musical analysis	<a href="#">G10H 2240/005</a>
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**G10H 2240/161****References*****Informative references***

*Attention is drawn to the following places, which may be of interest for search:*

Data structures for use in electrophonic musical devices; Data structures including musical parameters derived from musical analysis	<a href="#">G10H 2240/005</a>
Use of cache memory for electrophonic musical instrument processes, e.g. for improving processing capabilities or solving interfacing problems	<a href="#">G10H 2230/031</a>
Musical libraries, i.e. musical databases indexed by musical parameters, wavetables, indexing schemes using musical parameters, musical rule bases or knowledge bases, e.g. for automatic composing methods	<a href="#">G10H 2240/121</a>
Files or data streams containing coded musical information, e.g. for transmission	<a href="#">G10H 2240/011</a>

**G10H 2240/171****References*****Informative references***

*Attention is drawn to the following places, which may be of interest for search:*

Files or data streams containing coded musical information, e.g. for transmission	<a href="#">G10H 2240/011</a>
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**G10H 2240/211****References****Informative references**

*Attention is drawn to the following places, which may be of interest for search:*

Beam sensing or control, i.e. input interfaces involving substantially immaterial beams, radiation, or fields of any nature, used, e.g. as a switch as in a light barrier, or as a control device, e.g. using the theremin electric field sensing principle	<a href="#">G10H 2220/405</a>
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**G10H 2240/251****References****Informative references**

*Attention is drawn to the following places, which may be of interest for search:*

Personal digital assistant [PDA] or palmtop computing devices used for musical purposes, e.g. portable music players, tablet computers, e-readers or smart phones in which mobile telephony functions need not be used	<a href="#">G10H 2230/015</a>
Mobile ringtone, i.e. generation, transmission, conversion or downloading of ringing tones or other sounds for mobile telephony; Special musical data formats or protocols therefor	<a href="#">G10H 2230/021</a>

**G10H 2240/295****References****Informative references**

*Attention is drawn to the following places, which may be of interest for search:*

Telephone transmission, i.e. using twisted pair telephone lines or any type of telephone network	<a href="#">G10H 2240/241</a>
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**G10H 2240/325****References*****Informative references****Attention is drawn to the following places, which may be of interest for search:*

Lyrics displays, e.g. for karaoke applications	<a href="#">G10H 2220/011</a>
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**G10H 2250/00****References*****Informative references****Attention is drawn to the following places, which may be of interest for search:*

Aspects or methods of musical processing having intrinsic musical character, i.e. involving musical theory or musical parameters or relying on musical knowledge, as applied in electrophonic musical tools or instruments	<a href="#">G10H 2210/00</a>
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**G10H 2250/005****References*****Informative references****Attention is drawn to the following places, which may be of interest for search:*

Mathematical functions for musical analysis, processing, synthesis or composition	<a href="#">G10H 2250/131</a>
Details of musical waveform synthesis, i.e. audio waveshape processing from individual wavetable samples, independently of their origin or of the sound they represent	<a href="#">G10H 2250/541</a>



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## **G10H 2250/071**

### **References**

#### ***Informative references***

*Attention is drawn to the following places, which may be of interest for search:*

Impulse response, i.e. filters defined or specified by their temporal impulse response features, e.g. for echo or reverberation applications, Infinite impulse response [IIR]	<a href="#">G10H 2250/121</a>
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## **G10H 2250/075**

### **References**

#### ***Informative references***

*Attention is drawn to the following places, which may be of interest for search:*

Finite impulse response [FIR], e.g. for echoes or room acoustics, the shape of the impulse response is specified in particular according to delay times	<a href="#">G10H 2250/115</a>
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## **G10H 2250/091**

### **References**

#### ***Informative references***

*Attention is drawn to the following places, which may be of interest for search:*

Chebyshev polynomials, e.g. to provide filter coefficients for sharp roll-off filters	<a href="#">G10H 2250/191</a>
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## **G10H 2250/111**

### **References**

#### ***Informative references***

*Attention is drawn to the following places, which may be of interest for search:*

Acoustic effect simulation, reverberation or echo	<a href="#">G10H 2210/281</a>
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## **G10H 2250/115**

### **References**

#### ***Informative references***

*Attention is drawn to the following places, which may be of interest for search:*

All zero filter, i.e. moving average [MA] filter or finite impulse response [FIR] filter	<a href="#">G10H 2250/075</a>
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## **G10H 2250/121**

### **References**

#### ***Informative references***

*Attention is drawn to the following places, which may be of interest for search:*

Filter responses, filter architecture, filter coefficients or control parameters therefor, all pole filter, i.e. autoregressive [AR] filter	<a href="#">G10H 2250/071</a>
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**G10H 2250/145****References****Informative references**

*Attention is drawn to the following places, which may be of interest for search:*

Transforms, i.e. mathematical transforms into domains appropriate for musical signal processing, coding or compression	<a href="#">G10H 2250/215</a>
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**G10H 2250/191****References****Informative references**

*Attention is drawn to the following places, which may be of interest for search:*

Filter responses, filter architecture, filter coefficients or control parameters therefor, Chebyshev filters	<a href="#">G10H 2250/091</a>
Chebyshev window	<a href="#">G10H 2250/271</a>

**G10H 2250/211****References****Informative references**

*Attention is drawn to the following places, which may be of interest for search:*

Noise generation, its use, control or rejection for music processing	<a href="#">G10H 2250/295</a>
Use of noise in formant synthesis	<a href="#">G10H 2250/495</a>
Shielding, electromagnetic or magnetic, e.g. for transducers, i.e. for controlling, orienting or suppressing magnetic fields or for preventing unintentional generation, propagation and reception of electromagnetic energy in electrophonic musical instruments, their vicinity or their interconnections	<a href="#">G10H 2220/565</a>

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**G10H 2250/221****References*****Informative references****Attention is drawn to the following places, which may be of interest for search:*

File format, MP3, i.e. MPEG-1 or MPEG-2 Audio Layer III, lossy audio compression	<a href="#">G10H 2240/061</a>
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**G10H 2250/225****References*****Informative references****Attention is drawn to the following places, which may be of interest for search:*

Adaptive MDCT-based compression, e.g. using a hybrid subband-MDCT, as in ATRAC	<a href="#">G10H 2250/575</a>
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**G10H 2250/271****References*****Informative references****Attention is drawn to the following places, which may be of interest for search:*

Chebyshev polynomials, e.g. to provide filter coefficients for sharp roll-off filters	<a href="#">G10H 2250/191</a>
Chebyshev filters	<a href="#">G10H 2250/091</a>

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**G10H 2250/305****References*****Informative references***

*Attention is drawn to the following places, which may be of interest for search:*

Shielding, electromagnetic or magnetic, e.g. for transducers, i.e. for controlling, orienting or suppressing magnetic fields or for preventing unintentional generation, propagation and reception of electromagnetic energy in electrophonic musical instruments, their vicinity or their interconnections	<a href="#">G10H 2220/565</a>
Notch filters for musical processing or musical effects	<a href="#">G10H 2250/125</a>
Aliasing, i.e. preventing, eliminating or deliberately using aliasing noise, distortions or artifacts in sampled or synthesised waveforms, e.g. by band limiting, oversampling or undersampling, respectively	<a href="#">G10H 2250/545</a>

**G10H 2250/315****References*****Informative references***

*Attention is drawn to the following places, which may be of interest for search:*

Details of musical waveform synthesis, i.e. audio waveshape processing from individual wavetable samples, independently of their origin or of the sound they represent	<a href="#">G10H 2250/541</a>
General musical sound synthesis principles, i.e. sound category-independent synthesis methods	<a href="#">G10H 2250/471</a>

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**G10H 2250/365****References*****Informative references****Attention is drawn to the following places, which may be of interest for search:*

Crowds, e.g. restaurant, waiting hall, demonstration or subway corridor at rush hour	<a href="#">G10H 2250/401</a>
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**G10H 2250/401****References*****Informative references****Attention is drawn to the following places, which may be of interest for search:*

Gensound applause, e.g. handclapping; Cheering; Booing	<a href="#">G10H 2250/365</a>
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**G10H 2250/431****References*****Informative references****Attention is drawn to the following places, which may be of interest for search:*

Gensound wind instruments, i.e. generating or synthesising the sound of a wind instrument, controlling specific features of said sound	<a href="#">G10H 2250/461</a>
Spint wind instrument, i.e. mimicking musical wind instrument features; Electroponic aspects of acoustic wind instruments; MIDI-like control therefor	<a href="#">G10H 2230/155</a>

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**G10H 2250/435****References****Informative references**

*Attention is drawn to the following places, which may be of interest for search:*

Spint wind instrument, Spint English horn	<a href="#">G10H 2230/231</a>
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**G10H 2250/441****References****Informative references**

*Attention is drawn to the following places, which may be of interest for search:*

Spint piano, i.e. mimicking acoustic musical instruments with piano, cembalo or spinet features, e.g. with piano-like keyboard; Electroponic aspects of piano-like acoustic keyboard instruments; MIDI-like control therefor	<a href="#">G10H 2230/065</a>
Spint stringed, i.e. mimicking stringed instrument features, electroponic aspects of acoustic stringed musical instruments without keyboard; MIDI-like control therefor	<a href="#">G10H 2230/075</a>

**G10H 2250/445****References****Informative references**

*Attention is drawn to the following places, which may be of interest for search:*

Bow control in general, i.e. sensors or transducers on a bow; Input interface or controlling process for emulating a bow, bowing action or generating bowing parameters, e.g. for appropriately controlling a specialised sound synthesiser	<a href="#">G10H 2220/365</a>
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Modulation effects, i.e. smooth non-discontinuous variations over a time interval, e.g. within a note, melody or musical transition, of any sound parameter, e.g. amplitude, pitch, spectral response, playback speed	<a href="#">G10H 2210/195</a>
Spint stringed, i.e. mimicking stringed instrument features, electrophonic aspects of acoustic stringed musical instruments without keyboard; MIDI-like control therefor, spint viola	<a href="#">G10H 2230/081</a>
Spint stringed, i.e. mimicking stringed instrument features, electrophonic aspects of acoustic stringed musical instruments without keyboard; MIDI-like control therefor, spint cello	<a href="#">G10H 2230/085</a>

**G10H 2250/451****References*****Informative references***

*Attention is drawn to the following places, which may be of interest for search:*

Spint harpsichord, i.e. mimicking plucked keyboard instruments, e.g. harpsichord, virginal, muselar, spinet, clavicytherium, ottavino, archicembalo	<a href="#">G10H 2230/071</a>
Spint stringed, i.e. mimicking stringed instrument features, electrophonic aspects of acoustic stringed musical instruments without keyboard; MIDI-like control therefor	<a href="#">G10H 2230/075</a>

**G10H 2250/461****References*****Informative references***

*Attention is drawn to the following places, which may be of interest for search:*

Spint wind instrument, i.e. mimicking musical wind instrument features; Electrophonic aspects of acoustic wind instruments; MIDI-like control therefor	<a href="#">G10H 2230/155</a>
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Mouth control in general, i.e. breath, mouth, teeth, tongue or lip-controlled input devices or sensors detecting, e.g. lip position, lip vibration, air pressure, air velocity, air flow or air jet angle	<a href="#">G10H 2220/361</a>
Natural aerodynamic noises, e.g. wind gust sounds, rustling leaves or beating sails	<a href="#">G10H 2250/431</a>

**G10H 2250/465****References*****Informative references***

*Attention is drawn to the following places, which may be of interest for search:*

Spint reed, i.e. mimicking or emulating reed instruments, sensors or interfaces therefor	<a href="#">G10H 2230/205</a>
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**G10H 2250/471****References*****Informative references***

*Attention is drawn to the following places, which may be of interest for search:*

Details of musical waveform synthesis, i.e. audio waveshape processing from individual wavetable samples, independently of their origin or of the sound they represent	<a href="#">G10H 2250/541</a>
Special instrument [spint], i.e. mimicking the ergonomics, shape, sound or other characteristic of a specific acoustic musical instrument category	<a href="#">G10H 2230/045</a>
Sound category-dependent sound synthesis processes [Gensound] for musical use	<a href="#">G10H 2250/315</a>

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**G10H 2250/481****References*****Informative references***

*Attention is drawn to the following places, which may be of interest for search:*

Gensound singing voices, i.e. generation of human voices for musical applications, vocal singing sounds or intelligible words at a desired pitch or with desired vocal effects, e.g. by phoneme synthesis	<a href="#">G10H 2250/455</a>
PARCOR synthesis, i.e. music synthesis using partial autocorrelation techniques, e.g. in which the impulse response of the digital filter in a PARCOR speech synthesizer is used as a musical signal	<a href="#">G10H 2250/505</a>
Helmholtz resonance effect, i.e. using, exciting or emulating air resonance in a cavity	<a href="#">G10H 2210/275</a>

**G10H 2250/501****References*****Informative references***

*Attention is drawn to the following places, which may be of interest for search:*

Wah-wah spectral modulation, i.e. tone colour spectral glide obtained by sweeping the peak of a bandpass filter up or down in frequency, e.g. according to the position of a pedal, by automatic modulation or by voice formant detection; Control devices therefor, e.g. wah pedals for electric guitars	<a href="#">G10H 2210/231</a>
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**G10H 2250/505****References*****Informative references***

*Attention is drawn to the following places, which may be of interest for search:*

Gensound singing voices, i.e. generation of human voices for musical applications, vocal singing sounds or intelligible words at a desired pitch or with desired vocal effects, e.g. by phoneme synthesis	<a href="#">G10H 2250/455</a>
Formant synthesis, i.e. simulating the human speech production mechanism by exciting formant resonators, e.g. mimicking vocal tract filtering as in LPC synthesis vocoders, wherein musical instruments may be used as excitation signal to the time-varying filter estimated from a singer's speech	<a href="#">G10H 2250/481</a>

**G10H 2250/531****References*****Informative references***

*Attention is drawn to the following places, which may be of interest for search:*

Acoustic effect simulation, reverberation or echo	<a href="#">G10H 2210/281</a>
Soundscape or sound field simulation, reproduction or control for musical purposes, e.g. surround or 3D sound; Granular synthesis	<a href="#">G10H 2210/301</a>

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**G10H 2250/541****References*****Informative references****Attention is drawn to the following places, which may be of interest for search:*

Sound category-dependent sound synthesis processes [Gensound] for musical use	<a href="#">G10H 2250/315</a>
Special instrument [spint], i.e. mimicking the ergonomics, shape, sound or other characteristic of a specific acoustic musical instrument category	<a href="#">G10H 2230/045</a>
General musical sound synthesis principles, i.e. sound category-independent synthesis methods	<a href="#">G10H 2250/471</a>

**G10H 2250/561****References*****Informative references****Attention is drawn to the following places, which may be of interest for search:*

Parabolic or second order polynomials, occurring, e.g. in vacuum tube distortion modelling or for modelling the gate voltage to drain current relationship of a JFET	<a href="#">G10H 2250/201</a>
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**G10H 2250/565****References*****Informative references****Attention is drawn to the following places, which may be of interest for search:*

Third order polynomials, occurring, e.g. in vacuum tube distortion modelling	<a href="#">G10H 2250/205</a>
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## **G10H 2250/575**

### **References**

#### ***Informative references***

*Attention is drawn to the following places, which may be of interest for search:*

Modified discrete cosine transform [MDCT], i.e. based on a discrete cosine transform [DCT] of overlapping data	<a href="#">G10H 2250/225</a>
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## **G10H 2250/615**

### **References**

#### ***Informative references***

*Attention is drawn to the following places, which may be of interest for search:*

Graphical user interface [GUI] specifically adapted for electrophonic musical instruments for graphical editing of sound parameters or waveforms, e.g. by graphical interactive control of timbre, partials or envelope	<a href="#">G10H 2220/116</a>
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## **G10H 2250/631**

### **References**

#### ***Informative references***

*Attention is drawn to the following places, which may be of interest for search:*

Waveform decimation, i.e. integer division of the sampling rate for reducing the number of samples in a discrete-time signal, e.g. by low-pass anti-alias filtering followed by the actual downsampling	<a href="#">G10H 2250/611</a>
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## **G10K 2210/107**

### **References**

#### ***Informative references***

*Attention is drawn to the following places, which may be of interest for search:*

Rotating machines, e.g. engines, turbines, motors; Periodic or quasi-periodic signals	<a href="#">G10K 2210/121</a>
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## **G10K 2210/112**

### **References**

#### ***Informative references***

*Attention is drawn to the following places, which may be of interest for search:*

Exhaust pipes or mufflers	<a href="#">G10K 2210/12822</a>
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## 2. A. DEFINITIONS (modified)

### C04B 2235/3418

Delete: The entire Limiting references section.

### References

#### *Informative references*

Replace: The existing Informative references table with the following updated table.

Use of inorganic materials as fillers, e.g. pigments, for mortars, concrete or artificial stone; Treatment of inorganic materials specially adapted to enhance their filling properties in mortars, concrete or artificial stone: granular materials: quartz; sand	C04B 14/06
Silica fume waste material used for making clay wares	C04B 33/132
Lean materials, e.g. grog, quartz	C04B 33/16
Alumina based refractories containing zircon	C04B 35/106
Ceramic silica-based materials	C04B 35/14
Ceramic silicate-based materials	C04B 35/16
Making fibres based on silica	C04B 35/6224
Inorganic binders based on silicon compounds	C04B 35/6316
Asbestos; Glass; Fused silica	C04B 35/82
Coating or impregnating ceramic substrates with silica	C04B 41/5035
Silicates other than clay, e.g. water glass	C04B 2235/3427
Clays, e.g. bentonites, smectites such as montmorillonite, vermiculites or kaolines, e.g. illite, talc or sepiolite	C04B 2235/349
Silicon oxide containing glass starting material or secondary phase	C04B 2235/36
Silicon boride (SiB <sub>n</sub> ) starting material or secondary phase	C04B 2235/3804
Boron silicide = silicon boride	C04B 2235/3804
Silicon carbide (SiC) starting material or secondary phase	C04B 2235/3826
Silicon nitride (Si <sub>3</sub> N <sub>4</sub> ) starting material or secondary phase	C04B 2235/3873
Silicon starting material or secondary phase	C04B 2235/428
Silicon fluoride (SiF <sub>4</sub> ) starting material or secondary phase	C04B 2235/445
Silicon sulphide (SiS <sub>2</sub> ) starting material or secondary phase	C04B 2235/446
Silica or silicates other than aluminosilicates, e.g. quartz	C04B 2235/5232

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Silica or silicate interlayer used for joining a ceramic with another substrate	<a href="#">C04B 2237/062</a>
Silica or silicate substrate joined with another substrate or being part of a ceramic laminate	<a href="#">C04B 2237/341</a>
Silica-based membranes	<a href="#">B01D 71/027</a>
Catalysts comprising silica	<a href="#">B01J 21/08</a>
Preparation of silica powders, sols, gels, dispersions and their after-treatments	<a href="#">C01B 33/113</a>
Processes specially adapted for the production of quartz or fused silica articles	<a href="#">C03B 20/00</a>
Glass compositions with more than 90% silica by weight, e.g. quartz	<a href="#">C03C 3/06</a>
Catalysts used in the preparation of hydrocarbons comprising silica	<a href="#">C07C 2521/08</a>
Silica used as filler for polymers	<a href="#">C08K 3/36</a>
Treatment of inorganic materials, other than fibrous fillers, to enhance their pigmenting or filling properties: compounds of silicon	<a href="#">C09C 1/28</a>
Luminescent, e.g. electroluminescent, chemiluminescent materials containing silicon	<a href="#">C09K 11/59</a>

**C04B 2235/447****Definition statement**

Delete: In the first line of the Definition statement, "(calcium phosphates C04B2235/3212)", so that the updated Definition statement appears as follows.

Phosphates or phosphites as starting material for making ceramics, e.g. orthophosphate ( $\text{PO}_4^{3-}$ ), pyrophosphate ( $\text{P}_2\text{O}_7^{4-}$ ), hypophosphite ( $\text{H}_2\text{PO}_2^-$ ), or present as secondary phase in the sintered ceramic.

Delete: The entire Limiting references section.



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**References*****Informative references***

Replace: The existing Informative references table with the following updated table.

Phosphate cements	<a href="#">C04B 12/02</a>
Use of inorganic materials as fillers, e.g. pigments, for mortars, concrete or artificial stone; Treatment of inorganic materials specially adapted to enhance their filling properties in mortars, concrete or artificial stone: Phosphates, e.g. apatite	<a href="#">C04B 14/366</a>
Phosphate muds used in making clay	<a href="#">C04B 33/132</a>
Ceramics based on phosphates	<a href="#">C04B 35/447</a>
Making fibres based on phosphates	<a href="#">C04B 35/62268</a>
Binders based on phosphoric acids or phosphates	<a href="#">C04B 35/6306</a>
Coating or impregnating ceramic substrates with salts or salty compositions: containing phosphor in the anion, e.g. phosphates	<a href="#">C04B 41/5015</a>
Coating or impregnating ceramic substrates with phosphates	<a href="#">C04B 41/5048</a>
Coating or impregnating ceramic substrates with phosphate cements	<a href="#">C04B 41/5092</a>
Coating or impregnation of artificial stone with phosphates	<a href="#">C04B 41/67</a>
Calcium phosphates, e.g. hydroxyapatite	<a href="#">C04B 2235/3212</a>
Products characterised by the absence or the low content of phosphorus	<a href="#">C04B 2235/727</a>
Phosphate catalysts	<a href="#">B01J 27/18</a>
Catalysts comprising molecular sieves being phosphates	<a href="#">B01J 29/82</a>
Preparation of phosphates per se, e.g. phosphates powder, not preparative to making a phosphates ceramic	<a href="#">C01B 25/26</a>
Metallophosphates not containing aluminium having molecular sieve properties but not having base-exchange properties	<a href="#">C01B 37/002</a>
Luminescent, e.g. electroluminescent, chemiluminescent materials containing phosphates	<a href="#">C09K 11/0855</a>
Luminescent, e.g. electroluminescent, chemiluminescent materials containing phosphorus	<a href="#">C09K 11/70</a>
Luminescent, e.g. electroluminescent, chemiluminescent materials containing arsenic, antimony or bismuth phosphates	<a href="#">C09K 11/7464</a>
Luminescent, e.g. electroluminescent, chemiluminescent materials containing rare earth phosphates	<a href="#">C09K 11/7709</a>

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**G06Q 2220/00**

**References**

Delete: The entire Limiting references section.

***Informative references***

Insert: The following new row into the Informative references table.

Postage metering systems using cryptography	<a href="#">G06Q 2250/05</a>
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Delete: The second symbol ([H04N 7/16](#)) in the righthand column of the following row so that the updated row appears as follows.

Multiplex communication	<a href="#">H04J</a>
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