

EUROPEAN PATENT OFFICE  
U.S. PATENT AND TRADEMARK OFFICE

CPC NOTICE OF CHANGES 1625

DATE: AUGUST 1, 2024

PROJECT MP12186

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:	B01D	2201/64, 2202/10, 2221/04, 2221/10, 2221/12, 2239/025, 2239/0407, 2239/0435, 2239/0442, 2239/0457, 2247/04, 2247/10, 2259/12, 2279/50, 2279/55, 2279/60, 2279/65
	B01J	2219/00889
	B03D	2201/00, 2203/00, 2203/008
	B23B	2226/45, 2226/75, 2231/26, 2240/28, 2247/02
	B23C	2226/45, 2226/75, 2260/56
	B23D	2277/2407, 2277/2414
	B23G	2200/08
	B27K	2200/10, 2200/30, 2240/10, 2240/15, 2240/20, 2240/30
	B29C	2033/385, 2035/0283, 2043/022, 2045/0044, 2045/0072, 2045/0077, 2045/14934, 2045/1698, 2045/1741, 2045/1793, 2045/1797, 2045/5665, 2045/764, 2045/848, 2049/542, 2071/0027, 2791/009
	B29D	2030/0607, 2030/0614, 2030/0666, 2030/0682, 2030/383, 2030/421, 2030/422, 2030/423, 2030/424, 2030/425, 2030/426, 2030/427, 2030/428, 2030/726, 2030/728
	B32B	2260/021, 2260/025, 2262/10
	B41M	2205/40
	B41P	2213/42, 2227/20
	B60G	2206/82014
	B60K	2006/381, 2015/03434, 2023/025
	B60R	2019/1806
	B60Y	2300/00, 2302/00
	B62K	2204/00
	B63C	2011/027
	B64D	2231/025
	B65B	2210/06, 2220/04, 2220/24
	B65D	2203/00, 2203/04, 2251/00, 2255/00, 2401/00, 2581/3425, 2585/86
	B65H	2301/41342
	E05B	2017/0095, 2035/009, 2047/0014, 2047/0089, 2047/0094, 2047/0095, 2047/0096
	E05F	2015/765

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	F02M	2200/29
	F04B	2201/021
	F05B	2250/84, 2260/02
	F05D	2260/61
	F16C	2202/40, 2206/80, 2220/02, 2220/04, 2220/20, 2220/24, 2220/28, 2220/42, 2220/44, 2220/46, 2220/48, 2220/62, 2220/66, 2220/68, 2220/70, 2220/82, 2220/84, 2223/04, 2223/06, 2223/08, 2223/10, 2223/30, 2223/32, 2223/40, 2223/42, 2223/44, 2223/46, 2223/60, 2223/70, 2223/80, 2226/00, 2226/10, 2226/14, 2226/30, 2226/54, 2226/60, 2310/00, 2314/00, 2316/00, 2320/00, 2320/23, 2320/42, 2322/00, 2322/34, 2322/39, 2322/50, 2322/59, 2324/00, 2324/16, 2326/00, 2326/02, 2326/05, 2326/06, 2326/08, 2326/09, 2326/10, 2326/20, 2326/24, 2326/26, 2326/28, 2326/30, 2326/43, 2326/47, 2326/58, 2340/00, 2340/18, 2340/24, 2350/00, 2350/26, 2350/52, 2350/54, 2352/00, 2360/00, 2360/18, 2360/22, 2360/23, 2360/24, 2360/31, 2360/42, 2360/43, 2360/44, 2360/45, 2361/00, 2361/41, 2361/43, 2361/45, 2361/53, 2361/55, 2361/61, 2361/71, 2362/00, 2362/40, 2362/52, 2370/00, 2370/20, 2370/38, 2380/00, 2380/16, 2380/26
	F16D	2048/0212, 2048/0227, 2048/023, 2048/0251
	F16H	2025/2059, 2025/249, 2035/003, 2035/005, 2035/006, 2057/005, 2057/0087, 2057/018, 2057/02034, 2057/02091, 2057/087, 2059/0221, 2059/023, 2059/0239, 2059/0243, 2059/026, 2061/0037, 2061/004, 2061/0071, 2061/0477, 2061/1204, 2061/226, 2061/6607, 2063/3046, 2063/3093, 2302/06, 2306/20, 2306/36
	F23C	2900/03003
	F23D	2900/00006
	F23R	2900/00014
	F27D	2001/0046, 2001/0053, 2001/0069, 2001/0079, 2001/0083, 2099/008
	F28C	2001/006
	F28D	2020/0017, 2021/0021, 2021/0028, 2021/0033, 2021/0038, 2021/004, 2021/0043, 2021/0045, 2021/005, 2021/0054, 2021/0056, 2021/0061, 2021/0063, 2021/007, 2021/0071, 2021/0075, 2021/0082, 2021/0087, 2021/0089, 2021/0094, 2021/0096

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	F28F	2200/00, 2215/08, 2250/00, 2265/00, 2265/26, 2275/04, 2280/10
<b>DEFINITIONS:</b>		
Definitions Deleted: (no frozen (F) symbol definitions should be deleted)	B65D	2585/86, 2585/88
Definitions New:	B01D	2201/64, 2202/10, 2221/04, 2221/10, 2221/12, 2239/025, 2239/0407, 2239/0435, 2239/0442, 2239/0457, 2247/04, 2247/10, 2259/12, 2279/50, 2279/55, 2279/60, 2279/65
	B01J	2219/00889
	B03D	2201/00, 2203/00, 2203/008
	B23B	2226/45, 2226/75, 2231/26, 2240/28, 2247/02
	B23C	2226/45, 2226/75, 2260/56
	B23D	2277/2407, 2277/2414
	B23G	2200/08
	B27K	2200/10, 2200/30, 2240/10, 2240/15, 2240/20, 2240/30
	B29C	2033/385, 2035/0283, 2043/022, 2045/0044, 2045/0072, 2045/0077, 2045/14934, 2045/1698, 2045/1741, 2045/1793, 2045/1797, 2045/5665, 2045/764, 2045/848, 2049/542, 2071/0027, 2791/009
	B29D	2030/0607, 2030/0614, 2030/0666, 2030/0682, 2030/383, 2030/421, 2030/422, 2030/423, 2030/424, 2030/425, 2030/426, 2030/427, 2030/428, 2030/726, 2030/728
	B32B	2260/021, 2260/025, 2262/10
	B41M	2205/40
	B41P	2213/42, 2227/20
	B60G	2206/82014
	B60K	2006/381, 2015/03434, 2023/025
	B60R	2019/1806
	B60Y	2300/00, 2302/00
	B62K	2204/00
	B63C	2011/027
	B64D	2231/025
	B65B	2210/06, 2220/04, 2220/24
	B65D	2203/04, 2255/00, 2581/3425
	B65H	2301/41342
	E05B	2017/0095, 2035/009, 2047/0014, 2047/0089, 2047/0094, 2047/0095, 2047/0096
	E05F	2015/765
	F02M	2200/29
	F04B	2201/021
	F05B	2250/84, 2260/02
	F05D	2260/61

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	F16C	2202/40, 2206/80, 2220/02, 2220/04, 2220/20, 2220/24, 2220/28, 2220/42, 2220/44, 2220/46, 2220/48, 2220/62, 2220/66, 2220/68, 2220/70, 2220/82, 2220/84, 2223/04, 2223/06, 2223/08, 2223/10, 2223/30, 2223/32, 2223/40, 2223/42, 2223/44, 2223/46, 2223/60, 2223/70, 2223/80, 2226/00, 2226/10, 2226/14, 2226/30, 2226/54, 2226/60, 2320/23, 2320/42, 2322/34, 2322/39, 2322/59, 2324/16, 2326/02, 2326/05, 2326/06, 2326/08, 2326/09, 2326/24, 2326/26, 2326/28, 2326/30, 2326/43, 2326/47, 2326/58, 2340/18, 2340/24, 2350/26, 2350/52, 2350/54, 2360/18, 2360/22, 2360/23, 2360/24, 2360/31, 2360/42, 2360/43, 2360/44, 2360/45, 2361/41, 2361/43, 2361/45, 2361/53, 2361/55, 2361/61, 2361/71, 2370/38, 2380/16, 2380/26
	F16D	2048/0227
	F16H	2025/2059, 2025/249, 2035/003, 2035/005, 2035/006, 2057/005, 2057/0087, 2057/018, 2057/02034, 2057/02091, 2057/087, 2059/0221, 2059/023, 2059/0239, 2059/0243, 2059/026, 2061/0037, 2061/004, 2061/0071, 2061/0477, 2061/1204, 2061/226, 2061/6607, 2063/3046, 2063/3093, 2302/06, 2306/20, 2306/36
	F23C	2900/03003
	F23D	2900/00006
	F23R	2900/00014
	F27D	2001/0046, 2001/0053, 2001/0069, 2001/0079, 2001/0083, 2099/008
	F28C	2001/006
	F28D	2020/0017, 2021/0021, 2021/0028, 2021/0033, 2021/0038, 2021/004, 2021/0043, 2021/0045, 2021/005, 2021/0054, 2021/0056, 2021/0061, 2021/0063, 2021/007, 2021/0071, 2021/0075, 2021/0082, 2021/0087, 2021/0089, 2021/0094, 2021/0096
	F28F	2200/00, 2215/08, 2250/00, 2265/00, 2265/26, 2275/04, 2280/10
Definitions Modified:	B65D	2251/00, 2401/00

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

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

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PROJECT MP12186

1. CLASSIFICATION SCHEME CHANGES

- 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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PROJECT MP12186

## 1. CLASSIFICATION SCHEME CHANGES

A. New, Modified or Deleted Group(s)

## SUBCLASS B01D - SEPARATION

<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#</u>
M	B01D2201/64	1	Filters having floating elements	
M	B01D2202/10	1	Use of a microdevice for separation	
M	B01D2221/04	1	Separation devices for treating liquids from earth drilling, mining	
M	B01D2221/10	1	Separation devices for use in medical, pharmaceutical or laboratory applications, e.g. separating amalgam from dental treatment residues	
M	B01D2221/12	1	Separation devices for treating rain or storm water	
M	B01D2239/025	2	comprising nano fibres	
M	B01D2239/0407	2	comprising particulate additives, e.g. adsorbents	
M	B01D2239/0435	2	Electret	
M	B01D2239/0442	2	Antimicrobial, antibacterial, antifungal additives	
M	B01D2239/0457	2	Specific fire retardant or heat resistant properties	
M	B01D2247/04	1	Regenerating the washing fluid	
M	B01D2247/10	1	Means for removing the washing fluid dispersed in the gas or vapours	
M	B01D2259/12	1	Methods and means for introducing reactants	
M	B01D2279/50	1	for air conditioning	
M	B01D2279/55	1	for cleaning appliances, e.g. suction cleaners	
M	B01D2279/60	1	for the intake of internal combustion engines or turbines	
M	B01D2279/65	1	for the sterilisation of air	

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**SUBCLASS B01J - CHEMICAL OR PHYSICAL PROCESSES, e.g. CATALYSIS OR COLLOID CHEMISTRY; THEIR RELEVANT APPARATUS**

<u>Type*</u>	<u>Symbol</u>	<u>Indent Level</u> <u>Number of</u> <u>dots (e.g. 0, 1,</u> <u>2)</u>	<u>Title</u> “CPC only” text should normally be enclosed in {curly brackets}**	<u>Transferred to#</u>
M	B01J2219/00889	2	Mixing	

**SUBCLASS B03D - FLOTATION; DIFFERENTIAL SEDIMENTATION**

<u>Type*</u>	<u>Symbol</u>	<u>Indent Level</u> <u>Number of</u> <u>dots (e.g. 0, 1,</u> <u>2)</u>	<u>Title</u> “CPC only” text should normally be enclosed in {curly brackets}**	<u>Transferred to#</u>
M	B03D2201/00	0	Specified effects produced by the flotation agents	
M	B03D2203/00	0	Specified materials treated by the flotation agents; Specified applications	
M	B03D2203/008	1	Water purification, e.g. for process water recycling	

**SUBCLASS B23B - TURNING; BORING**

<u>Type*</u>	<u>Symbol</u>	<u>Indent Level</u> <u>Number of</u> <u>dots (e.g. 0, 1,</u> <u>2)</u>	<u>Title</u> “CPC only” text should normally be enclosed in {curly brackets}**	<u>Transferred to#</u>
M	B23B2226/45	1	Glass	
M	B23B2226/75	1	Stone, rock or concrete	
M	B23B2231/26	1	Detection of clamping	
M	B23B2240/28	1	Shrink-fitted connections, i.e. using heating and cooling to produce interference fits	
M	B23B2247/02	1	Jigs for drilling spectacles	

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**SUBCLASS B23C - MILLING**

<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#</u>
M	B23C2226/45	1	Glass	
M	B23C2226/75	1	Stone, rock or concrete	
M	B23C2260/56	1	Lasers	

**SUBCLASS B23D - PLANING; SLOTTING; SHEARING; BROACHING; SAWING; FILING; SCRAPING; LIKE OPERATIONS FOR WORKING METAL BY REMOVING MATERIAL, 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#</u>
M	B23D2277/2407	2	Applied by chemical vapour deposition [CVD] processes	
M	B23D2277/2414	2	Applied by physical vapour deposition [PVD] processes	

**SUBCLASS B23G - THREAD CUTTING; WORKING OF SCREWS, BOLT HEADS, OR NUTS, IN CONJUNCTION THEREWITH**

<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#</u>
M	B23G2200/08	1	Threading tools with adjustable elements	

**SUBCLASS B27K - PROCESSES, APPARATUS OR SELECTION OF SUBSTANCES FOR IMPREGNATING, STAINING, DYEING, BLEACHING OF WOOD OR SIMILAR MATERIALS, OR TREATING OF WOOD OR SIMILAR MATERIALS WITH PERMEANT LIQUIDS, NOT OTHERWISE PROVIDED FOR; CHEMICAL OR PHYSICAL TREATMENT OF CORK, CANE, REED, STRAW OR SIMILAR MATERIALS**

<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#</u>
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M	B27K2200/10	1	Articles made of particles or fibres consisting of wood or other lignocellulosic material	
M	B27K2200/30	1	Multilayer articles comprising wood	
M	B27K2240/10	1	Extraction of components naturally occurring in wood, cork, straw, cane or reed	
M	B27K2240/15	1	Decontamination of previously treated wood	
M	B27K2240/20	1	Removing fungi, molds or insects	
M	B27K2240/30	1	Fireproofing	

**SUBCLASS B29C - SHAPING OR JOINING OF PLASTICS; SHAPING OF MATERIAL IN A PLASTIC STATE, NOT OTHERWISE PROVIDED FOR; AFTER-TREATMENT OF THE SHAPED PRODUCTS, e.g. REPAIRING**

<b>Type*</b>	<b>Symbol</b>	<b>Indent Level Number of dots (e.g. 0, 1, 2)</b>	<b>Title “CPC only” text should normally be enclosed in {curly brackets}**</b>	<b>Transferred to#</b>
M	B29C2033/385	3	{by laminating a plurality of layers}	
M	B29C2035/0283	2	{Thermal pretreatment of the plastics material}	
M	B29C2043/022	3	{having locally depressed lines, e.g. hinges}	
M	B29C2045/0044	2	{expelling moulding material outside the mould cavity at the weld line location}	
M	B29C2045/0072	3	{the parts to be joined being moulded in a stack mould}	
M	B29C2045/0077	2	{removing burrs or flashes}	
M	B29C2045/14934	3	{Preventing penetration of injected material between insert and adjacent mould wall}	
M	B29C2045/1698	2	{multicoloured articles moulded in one step}	
M	B29C2045/1741	4	{Seals preventing pressurized fluid to escape from the mould cavity}	
M	B29C2045/1793	4	{by an electric linear motor}	
M	B29C2045/1797	3	{Machine parts provided with a shroud or cover or shield, e.g. for preventing oil or dust scattering}	
M	B29C2045/5665	5	{Compression by transversely movable mould parts}	
M	B29C2045/764	4	{detecting or preventing overload of an ejector}	

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M	B29C2045/848	3	{detecting or preventing overload of an injection plunger}	
M	B29C2049/542	4	{having means to facilitate the removal of the blow moulded articles}	
M	B29C2071/0027	2	{Removing undesirable residual components, e.g. solvents, unreacted monomers}	
M	B29C2791/009	2	Using laser	

**SUBCLASS B29D - PRODUCING PARTICULAR ARTICLES FROM PLASTICS OR FROM SUBSTANCES IN A PLASTIC STATE**

<b>Type*</b>	<b>Symbol</b>	<b>Indent Level Number of dots (e.g. 0, 1, 2)</b>	<b>Title "CPC only" text should normally be enclosed in {curly brackets}**</b>	<b>Transferred to#</b>
M	B29D2030/0607	4	{Constructional features of the moulds}	
M	B29D2030/0614	5	{porous moulds, e.g. sintered materials}	
M	B29D2030/0666	4	{Heating by using fluids}	
M	B29D2030/0682	3	{Inner liners}	
M	B29D2030/383	3	{Chemical treatment of the reinforcing elements, e.g. cords, wires and filamentary materials, to increase the adhesion to the rubber}	
M	B29D2030/421	4	{General aspects of the joining methods and devices for creating the bands}	
M	B29D2030/422	5	{Butt joining}	
M	B29D2030/423	5	{Joining by overlapping}	
M	B29D2030/424	5	{the joining devices being angularly adjustable}	
M	B29D2030/425	5	{the joining devices being laterally adjustable}	
M	B29D2030/426	5	{the joining devices being longitudinally adjustable}	
M	B29D2030/427	5	{Positioning the bands at the joining areas}	
M	B29D2030/428	5	{Positioning the bands at the overlapping joining areas}	
M	B29D2030/726	3	{Decorating or marking the sidewalls before tyre vulcanization}	
M	B29D2030/728	3	{Decorating or marking the sidewalls after tyre vulcanization}	

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**SUBCLASS B32B - LAYERED PRODUCTS, i.e. PRODUCTS BUILT-UP OF STRATA OF FLAT OR NON-FLAT, e.g. CELLULAR OR HONEYCOMB, FORM**

<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	B32B2260/021	2	Fibrous or filamentary layer	
M	B32B2260/025	2	Particulate layer	
M	B32B2262/10	1	Inorganic fibres	

**SUBCLASS B41M - PRINTING, DUPLICATING, MARKING, OR COPYING PROCESSES; COLOUR PRINTING**

<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	B41M2205/40	1	Cover layers; Layers separated from substrate by imaging layer; Protective layers; Layers applied before imaging	

**SUBCLASS B41P - INDEXING SCHEME RELATING TO PRINTING, LINING MACHINES, TYPEWRITERS, AND TO STAMPS**

<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	B41P2213/42	2	Vibration-dampers for machine parts	
M	B41P2227/20	1	Means enabling or facilitating exchange of tubular printing or impression members, e.g. printing sleeves, blankets	

**SUBCLASS B60G - VEHICLE SUSPENSION ARRANGEMENTS**

<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	B60G2206/82014	5	Magnetic pulse welding	

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**SUBCLASS B60K - ARRANGEMENT OR MOUNTING OF PROPULSION UNITS OR OF TRANSMISSIONS IN VEHICLES; ARRANGEMENT OR MOUNTING OF PLURAL DIVERSE PRIME-MOVERS IN VEHICLES; AUXILIARY DRIVES FOR VEHICLES; INSTRUMENTATION OR DASHBOARDS FOR VEHICLES; ARRANGEMENTS IN CONNECTION WITH COOLING, AIR INTAKE, GAS EXHAUST OR FUEL SUPPLY OF PROPULSION UNITS IN VEHICLES**

<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	B60K2006/381	4	{characterized by driveline brakes}	
M	B60K2015/03434	3	{for preventing theft of fuel}	
M	B60K2023/025	2	{Adjusting of clutch pedal positions}	

**SUBCLASS B60R - VEHICLES, VEHICLE FITTINGS, OR VEHICLE PARTS, 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> “CPC only” text should normally be enclosed in {curly brackets}**	<u>Transferred to#</u>
M	B60R2019/1806	3	{Structural beams therefor, e.g. shock-absorbing}	

**SUBCLASS B60Y - INDEXING SCHEME RELATING TO ASPECTS CROSS-CUTTING VEHICLE TECHNOLOGY**

<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	B60Y2300/00	0	Purposes or special features of road vehicle drive control systems	
M	B60Y2302/00	0	Responses or measures related to driver conditions	

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**SUBCLASS B62K - CYCLES; CYCLE FRAMES; CYCLE STEERING DEVICES; RIDER-OPERATED TERMINAL CONTROLS SPECIALLY ADAPTED FOR CYCLES; CYCLE AXLE SUSPENSIONS; CYCLE SIDE-CARS, FORECARS, OR THE LIKE**

<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	B62K2204/00	0	Adaptations for driving cycles by electric motor	

**SUBCLASS B63C - LAUNCHING, HAULING-OUT, OR DRY-DOCKING OF VESSELS; LIFE-SAVING IN WATER; EQUIPMENT FOR DWELLING OR WORKING UNDER WATER; MEANS FOR SALVAGING OR SEARCHING FOR UNDERWATER OBJECTS**

<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	B63C2011/027	2	{Shells for diving equipment, i.e. substantially rigid housings or covers, e.g. streamlined shells}	

**SUBCLASS B64D - EQUIPMENT FOR FITTING IN OR TO AIRCRAFT; FLIGHT SUITS; PARACHUTES; ARRANGEMENTS OR MOUNTING OF POWER PLANTS OR PROPULSION TRANSMISSIONS IN AIRCRAFT**

<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	B64D2231/025	2	Oxygen masks; Mask storages; Features related to mask deployment	

**SUBCLASS B65B - MACHINES, APPARATUS OR DEVICES FOR, OR METHODS OF, PACKAGING ARTICLES OR MATERIALS; UNPACKING**

<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>

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M	B65B2210/06	1	Sterilising or cleaning machinery or conduits	
M	B65B2220/04	1	Means for, or method of collapsing containers with walls hinged together or detachably connected	
M	B65B2220/24	1	Cooling filled packages	

**SUBCLASS B65D - CONTAINERS FOR STORAGE OR TRANSPORT OF ARTICLES OR MATERIALS, e.g. BAGS, BARRELS, BOTTLES, BOXES, CANS, CARTONS, CRATES, DRUMS, JARS, TANKS, HOPPERS, FORWARDING CONTAINERS; ACCESSORIES, CLOSURES, OR FITTINGS THEREFOR; PACKAGING ELEMENTS; PACKAGES**

<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	B65D2203/00	0	Decoration means, markings, information elements, contents indicators	
M	B65D2203/04	1	Level indicators	
M	B65D2251/00	0	Details relating to container closures	
M	B65D2255/00	0	Locking devices	
M	B65D2401/00	0	Tamper-indicating means	
M	B65D2581/3425	4	Cooking a complete meal, e.g. TV-dinners	
M	B65D2585/86	2	for electrical components	
U	B65D2585/88	3	Batteries	

**SUBCLASS B65H - HANDLING THIN OR FILAMENTARY MATERIAL, e.g. SHEETS, WEBS, CABLES**

<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	B65H2301/41342	5	shaft transversing the roll	

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**SUBCLASS E05B - LOCKS; ACCESSORIES THEREFOR; HANDCUFFS**

<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 <u>enclosed in {curly brackets}**</u>	<u>Transferred to#</u>
M	E05B2017/0095	1	{Means preventing wrong operation, e.g. preventing damaging contact between extended bolt and striker or bolt and frame}	
M	E05B2035/009	1	{Locks where a characteristic part of the user's body is used as a key}	
M	E05B2047/0014	2	{Constructional features of actuators or power transmissions therefor}	
M	E05B2047/0089	1	{with electronic learning functions}	
M	E05B2047/0094	1	{Mechanical aspects of remotely controlled locks}	
M	E05B2047/0095	2	{Mechanical aspects of locks controlled by telephone signals, e.g. by mobile phones}	
M	E05B2047/0096	2	{Mechanical aspects of locks whose actuation is dependent on geographical location, e.g. by means of a GPS system}	

**SUBCLASS E05F - DEVICES FOR MOVING WINGS INTO OPEN OR CLOSED POSITION; CHECKS FOR WINGS; WING FITTINGS NOT OTHERWISE PROVIDED FOR, CONCERNED WITH THE FUNCTIONING OF THE WING**

<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 <u>enclosed in {curly brackets}**</u>	<u>Transferred to#</u>
M	E05F2015/765	3	{using optical sensors}	

**SUBCLASS F02M - SUPPLYING COMBUSTION ENGINES IN GENERAL WITH COMBUSTIBLE MIXTURES OR CONSTITUENTS THEREOF**

<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 <u>enclosed in {curly brackets}**</u>	<u>Transferred to#</u>
M	F02M2200/29	1	Fuel-injection apparatus having rotating means	

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**SUBCLASS F04B - POSITIVE-DISPLACEMENT MACHINES FOR LIQUIDS; PUMPS**

<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	F04B2201/021	2	Rotational speed of a piston rotating around its own axis	

**SUBCLASS F05B - INDEXING SCHEME RELATING TO WIND, SPRING, WEIGHT, INERTIA OR LIKE MOTORS, TO MACHINES OR ENGINES FOR LIQUIDS COVERED BY SUBCLASSES F03B, F03D AND F03G**

<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	F05B2250/84	2	Nanomachines	
M	F05B2260/02	1	Transport, e.g. specific adaptations or devices for conveyance	

**SUBCLASS F05D - INDEXING SCHEME FOR ASPECTS RELATING TO NON-POSITIVE-DISPLACEMENT MACHINES OR ENGINES, GAS-TURBINES OR JET-PROPULSION PLANTS**

<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	F05D2260/61	2	Removal of CO <sub>2</sub>	

**SUBCLASS F16C - SHAFTS; FLEXIBLE SHAFTS; ELEMENTS OR CRANKSHAFT MECHANISMS; ROTARY BODIES OTHER THAN GEARING ELEMENTS; BEARINGS**

<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	F16C2202/40	2	Magnetic	



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M	F16C2206/80	1	Cermets, i.e. composites of ceramics and metal	
M	F16C2220/02	1	by casting	
M	F16C2220/04	2	by injection-moulding	
M	F16C2220/20	1	by sintering pulverised material, e.g. powder metallurgy	
M	F16C2220/24	1	by built-up welding	
M	F16C2220/28	1	by winding impregnated fibres	
M	F16C2220/42	2	by working of thin-walled material such as sheet or tube	
M	F16C2220/44	2	by rolling	
M	F16C2220/46	2	by forging	
M	F16C2220/48	2	by extrusion, e.g. of metallic profiles	
M	F16C2220/62	2	by turning, boring, drilling	
M	F16C2220/66	2	by milling	
M	F16C2220/68	2	by electrical discharge or electrochemical machining	
M	F16C2220/70	2	by grinding	
M	F16C2220/82	2	by cutting	
M	F16C2220/84	2	by perforating; by punching; by stamping-out	
M	F16C2223/04	2	by sizing, by shaping to final size by small plastic deformation, e.g. by calibrating or coining	
M	F16C2223/06	2	polishing	
M	F16C2223/08	2	shot-peening, blasting	
M	F16C2223/10	1	Hardening, e.g. carburizing, carbonitriding	
M	F16C2223/30	1	Coating surfaces	
M	F16C2223/32	2	by attaching pre-existing layers, e.g. resin sheets or foils by adhesion to a substrate; Laminating	
M	F16C2223/40	2	by dipping in molten material	
M	F16C2223/42	2	by spraying the coating material, e.g. plasma spraying	
M	F16C2223/44	2	by casting molten material on the substrate	
M	F16C2223/46	2	by welding, e.g. by using a laser to build a layer	
M	F16C2223/60	2	by vapour deposition, e.g. PVD, CVD	
M	F16C2223/70	2	by electroplating or electrolytic coating, e.g. anodising, galvanising	
M	F16C2223/80	2	by powder coating	
M	F16C2226/00	0	Joining parts; Fastening; Assembling or mounting parts	
M	F16C2226/10	1	Force connections, e.g. clamping	

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M	F16C2226/14	2	by shrink fit, i.e. heating and shrinking part to allow assembly	
M	F16C2226/30	1	Material joints	
M	F16C2226/54	3	with rivets	
M	F16C2226/60	2	with threaded parts, e.g. bolt and nut connections	
M	F16C2310/00	0	Agricultural machines	
M	F16C2314/00	0	Personal or domestic articles, e.g. household appliances such as washing machines, dryers	
M	F16C2316/00	0	Apparatus in health or amusement	
M	F16C2320/00	0	Apparatus used in separating or mixing	
M	F16C2320/23	1	Milling apparatus	
M	F16C2320/42	1	Centrifuges	
M	F16C2322/00	0	Apparatus used in shaping articles	
M	F16C2322/34	1	Sawing machines	
M	F16C2322/39	1	General buildup of machine tools, e.g. spindles, slides, actuators	
M	F16C2322/50	1	Hand tools, workshop equipment or manipulators	
M	F16C2322/59	2	Manipulators, e.g. robot arms	
M	F16C2324/00	0	Apparatus used in printing	
M	F16C2324/16	1	Printing machines	
M	F16C2326/00	0	Articles relating to transporting	
M	F16C2326/02	2	Wheel hubs or castors	
M	F16C2326/05	2	Vehicle suspensions, e.g. bearings, pivots or connecting rods used therein	
M	F16C2326/06	2	Drive shafts	
M	F16C2326/08	2	Vehicle seats, e.g. in linear movable seats	
M	F16C2326/09	2	Windscreen wipers, e.g. pivots therefore	
M	F16C2326/10	1	Railway vehicles	
M	F16C2326/20	1	Land vehicles	
M	F16C2326/24	2	Steering systems, e.g. steering rods or columns	
M	F16C2326/26	2	Bicycle steering or suspension	
M	F16C2326/28	2	Bicycle propulsion, e.g. crankshaft and its support	
M	F16C2326/30	1	Ships, e.g. propelling shafts and bearings therefor	
M	F16C2326/43	1	Aeroplanes; Helicopters	
M	F16C2326/47	1	Cosmonautic vehicles, i.e. bearings adapted for use in outer-space	
M	F16C2326/58	1	Conveyor systems, e.g. rollers or bearings therefor	

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M	F16C2340/00	0	Apparatus for treating textiles	
M	F16C2340/18	1	Apparatus for spinning or twisting	
M	F16C2340/24	1	Godet rolls	
M	F16C2350/00	0	Machines or articles related to building	
M	F16C2350/26	1	Excavators	
M	F16C2350/52	1	Locks, e.g. cables to actuate door locks	
M	F16C2350/54	1	Hinges, e.g. sliding bearings for hinges	
M	F16C2352/00	0	Apparatus for drilling	
M	F16C2360/00	0	Engines or pumps	
M	F16C2360/18	1	Camshafts	
M	F16C2360/22	1	Internal combustion engines	
M	F16C2360/23	1	Gas turbine engines	
M	F16C2360/24	2	Turbochargers	
M	F16C2360/31	1	Wind motors	
M	F16C2360/42	1	Pumps with cylinders or pistons	
M	F16C2360/43	1	Screw compressors	
M	F16C2360/44	1	Centrifugal pumps	
M	F16C2360/45	2	Turbo-molecular pumps	
M	F16C2361/00	0	Apparatus or articles in engineering in general	
M	F16C2361/41	1	Couplings	
M	F16C2361/43	1	Clutches, e.g. disengaging bearing	
M	F16C2361/45	1	Brakes	
M	F16C2361/53	1	Spring-damper, e.g. gas springs	
M	F16C2361/55	1	Flywheel systems	
M	F16C2361/61	1	Toothed gear systems, e.g. support of pinion shafts	
M	F16C2361/71	1	Chains	
M	F16C2362/00	0	Apparatus for lighting or heating	
M	F16C2362/40	1	Ovens or other heatings	
M	F16C2362/52	1	Compressors of refrigerators, e.g. air-conditioners	
M	F16C2370/00	0	Apparatus relating to physics, e.g. instruments	
M	F16C2370/20	1	Optical, e.g. movable lenses or mirrors; Spectacles	
M	F16C2370/38	1	Electrographic apparatus	
M	F16C2380/00	0	Electrical apparatus	
M	F16C2380/16	1	X-ray tubes	
M	F16C2380/26	1	Dynamo-electric machines or combinations therewith, e.g. electro-motors and generators	

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**SUBCLASS F16D - COUPLINGS FOR TRANSMITTING ROTATION; CLUTCHES; BRAKES**

<u>Type*</u>	<u>Symbol</u>	<u>Indent Level Number of dots (e.g. 0, 1, 2)</u>	<u>Title “CPC only” text should normally be enclosed in {curly brackets}**</u>	<u>Transferred to#</u>
M	F16D2048/0212	2	{Details of pistons for master or slave cylinders especially adapted for fluid control}	
M	F16D2048/0227	2	{Source of pressure producing the clutch engagement or disengagement action within a circuit; Means for initiating command action in power assisted devices}	
M	F16D2048/023	3	{by pedal actuation}	
M	F16D2048/0251	4	{Electric motor driving a piston, e.g. for actuating the master cylinder}	

**SUBCLASS F16H - GEARING**

<u>Type*</u>	<u>Symbol</u>	<u>Indent Level Number of dots (e.g. 0, 1, 2)</u>	<u>Title “CPC only” text should normally be enclosed in {curly brackets}**</u>	<u>Transferred to#</u>
M	F16H2025/2059	3	{Superposing movement by two screws, e.g. with opposite thread direction}	
M	F16H2025/249	4	{Special materials or coatings for screws or nuts}	
M	F16H2035/003	1	{Gearings comprising pulleys or toothed members of non-circular shape, e.g. elliptical gears}	
M	F16H2035/005	1	{Gearings or mechanisms preventing back-driving}	
M	F16H2035/006	1	{Gearings or mechanisms for stopping or limiting movement, e.g. stopping a movement after few turns}	
M	F16H2057/005	1	{Mounting preassembled units, i.e. using pre-mounted structures to speed up final mounting process}	
M	F16H2057/0087	1	{Computer aided design [CAD] specially adapted for gearing features; Analysis of gear systems}	

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M	F16H2057/018	2	{Detection of mechanical transmission failures}	
M	F16H2057/02034	2	{Gearboxes combined or connected with electric machines}	
M	F16H2057/02091	2	{Measures for reducing weight of gearbox}	
M	F16H2057/087	2	{Arrangement and support of friction devices in planetary gearings, e.g. support of clutch drums, stacked arrangements of friction devices}	
M	F16H2059/0221	2	{for selecting modes, i.e. input device}	
M	F16H2059/023	2	{Selectors for gearings using voice control}	
M	F16H2059/0239	2	{Up- and down-shift or range or mode selection by repeated movement}	
M	F16H2059/0243	3	{with push buttons, e.g. shift buttons arranged on steering wheel}	
M	F16H2059/026	2	{Details or special features of the selector casing or lever support}	
M	F16H2061/0037	2	{characterised by controlled fluid supply to lubrication circuits of the gearing}	
M	F16H2061/004	1	{Venting trapped air from hydraulic systems}	
M	F16H2061/0071	2	{Robots or simulators for testing control functions in automatic transmission}	
M	F16H2061/0477	2	{by suppression of excessive engine flare or turbine racing during shift transition}	
M	F16H2061/1204	2	{for malfunction caused by simultaneous engagement of different ratios resulting in transmission lock state or tie-up condition}	
M	F16H2061/226	2	{Manual distress release of the locking means for shift levers, e.g. to allow towing of vehicle in case of breakdown}	
M	F16H2061/6607	3	{Controls concerning lubrication or cooling}	
M	F16H2063/3046	4	{using electromagnetic clutch for coupling gear wheel to shaft}	
M	F16H2063/3093	3	{Final output elements, i.e. the final elements to establish gear ratio, e.g. dog clutches or other means establishing coupling to shaft}	

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M	F16H2302/06	1	Determining timing parameters of shifting, e.g. start of shifting	
M	F16H2306/20	1	Timing of gear shifts	
M	F16H2306/36	1	Filling the dead volume of actuators	

**SUBCLASS F23C - METHODS OR APPARATUS FOR COMBUSTION USING FLUID FUEL OR SOLID FUEL SUSPENDED AIR**

<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	F23C2900/03003	1	Annular combustion chambers	

**SUBCLASS F23D - BURNERS**

<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	F23D2900/00006	1	Liquid fuel burners using pure oxygen or O <sub>2</sub> -enriched air as oxidant	

**SUBCLASS F23R - GENERATING COMBUSTION PRODUCTS OF HIGH PRESSURE OR HIGH VELOCITY, e.g. GAS-TURBINE COMBUSTION CHAMBERS**

<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	F23R2900/00014	1	Reducing thermo-acoustic vibrations by passive means, e.g. by Helmholtz resonators	

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**SUBCLASS F27D - DETAILS OR ACCESSORIES OF FURNACES, KILNS, OVENS, OR RETORTS, IN SO FAR AS THEY ARE OF KINDS OCCURRING IN MORE THAN ONE KIND OF FURNACE**

<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	F27D2001/0046	1	{Means to facilitate repair or replacement or prevent quick wearing}	
M	F27D2001/0053	2	{Furnace constructed in modules}	
M	F27D2001/0069	2	{Means to prevent heat conduction}	
M	F27D2001/0079	1	{Means to assemble at least two parts of a furnace or of any device or accessory associated to its use}	
M	F27D2001/0083	2	{Means to assemble a moving part to a fixed one}	
M	F27D2099/008	3	{Using an air-lock}	

**SUBCLASS F28C - HEAT-EXCHANGE APPARATUS, NOT PROVIDED FOR IN ANOTHER SUBCLASS, IN WHICH THE HEAT-EXCHANGE MEDIA COME INTO DIRECT CONTACT WITHOUT CHEMICAL INTERACTION**

<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	F28C2001/006	1	{Systems comprising cooling towers, e.g. for recooling a cooling medium}	

**SUBCLASS F28D - HEAT-EXCHANGE APPARATUS, NOT PROVIDED FOR IN ANOTHER SUBCLASS, IN WHICH THE HEAT-EXCHANGE MEDIA DO NOT COME INTO DIRECT CONTACT**

<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	F28D2020/0017	2	{the heat storage material being enclosed in porous or cellular or fibrous structures}	
M	F28D2021/0021	2	{for aircrafts or cosmonautics}	

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M	F28D2021/0028	2	{for cooling heat generating elements, e.g. for cooling electronic components or electric devices}	
M	F28D2021/0033	2	{for cryogenic applications}	
M	F28D2021/0038	2	{for drying or dehumidifying gases or vapours}	
M	F28D2021/004	2	{for engine or machine cooling systems}	
M	F28D2021/0043	2	{for fuel cells}	
M	F28D2021/0045	2	{for granular materials}	
M	F28D2021/005	2	{for medical applications}	
M	F28D2021/0054	2	{for nuclear applications}	
M	F28D2021/0056	2	{for ovens or furnaces}	
M	F28D2021/0061	2	{for phase-change applications}	
M	F28D2021/0063	3	{Condensers}	
M	F28D2021/007	3	{Condensers}	
M	F28D2021/0071	3	{Evaporators}	
M	F28D2021/0075	2	{for syngas or cracked gas cooling systems}	
M	F28D2021/0082	3	{Charged air coolers}	
M	F28D2021/0087	3	{Fuel coolers}	
M	F28D2021/0089	3	{Oil coolers}	
M	F28D2021/0094	4	{for recooling the engine coolant}	
M	F28D2021/0096	4	{for space heating}	

**SUBCLASS F28F - DETAILS OF HEAT-EXCHANGE AND HEAT-TRANSFER APPARATUS, OF GENERAL APPLICATION**

<b>Type*</b>	<b>Symbol</b>	<b>Indent Level Number of dots (e.g. 0, 1, 2)</b>	<b>Title “CPC only” text should normally be enclosed in {curly brackets}**</b>	<b>Transferred to#</b>
M	F28F2200/00	0	Prediction; Simulation; Testing	
M	F28F2215/08	1	with openings, e.g. louvers	
M	F28F2250/00	0	Arrangements for modifying the flow of the heat exchange media, e.g. flow guiding means; Particular flow patterns	
M	F28F2265/00	0	Safety or protection arrangements; Arrangements for preventing malfunction	
M	F28F2265/26	1	for allowing differential expansion between elements	
M	F28F2275/04	1	by brazing	



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M	F28F2280/10	1	Movable elements, e.g. being pivotable	
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\*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)

### B01D 2201/64

#### References

#### *Informative references*

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

Floating filters	<a href="#">B01D 35/05</a>
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### B01D 2202/10

#### References

#### *Informative references*

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

Chemical, physical or physico-chemical processes in general; Their relevant apparatus	<a href="#">B01J 19/00</a>
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### B01D 2221/04

#### References

#### *Informative references*

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

Flotation in general	<a href="#">B03D 1/00</a>
Arrangements for separating materials produced by the well	<a href="#">E21B 43/34</a>

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**B01D 2221/10**

**References**

***Informative references***

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

Saliva removers characterised by provisions for processing the collected matter, e.g. for separating solids or air	<a href="#">A61C 17/065</a>
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**B01D 2221/12**

**References**

***Informative references***

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

Sewers; Cesspools	<a href="#">E03F</a>
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**B01D 2239/025**

**References**

***Informative references***

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

Particle separators using nano- or microfibres	<a href="#">B01D 46/546</a>
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**B01D 2239/0407**

**References**

***Informative references***

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

Filters for separating dispersed particles from gases or vapours with additional separating or treating functions by adsorption or absorption	<a href="#">B01D 46/0036</a>
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**B01D 2239/0435**

**References**

***Informative references***

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

Filters for separating dispersed particles from gases or vapours with additional separating or treating functions using electrostatic forces to remove particles, e.g. electret filters	<a href="#">B01D 46/0032</a>
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**B01D 2239/0442**

**References**

***Informative references***

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

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Filters for separating dispersed particles from gases or vapours with additional separating or treating functions provided with antibacterial or antifungal means	<a href="#">B01D 46/0028</a>
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**B01D 2239/0457**

**References**

***Informative references***

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

Filters for separating dispersed particles from gases or vapours provided with safety means against fire or explosion	<a href="#">B01D 46/0093</a>
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**B01D 2247/04**

**References**

***Informative references***

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

Separating the excess material from the washing liquid in spray booths, e.g. for recovery	<a href="#">B05B 14/462</a>
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## **B01D 2247/10**

### **References**

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

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

Separating dispersed particles from gases or vapours by gravity, inertia or centrifugal forces	<a href="#">B01D 45/00</a>
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## **B01D 2259/12**

### **References**

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

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

Catalytic processes for purification of waste gases by injecting reactants	<a href="#">B01D 53/90</a>
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## **B01D 2279/50**

### **References**

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

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

Treatment of air supplied to human living or working spaces by separation, e.g. by filtering	<a href="#">F24F 8/10</a>
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**B01D 2279/55**

**References**

***Informative references***

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

Details of suction cleaners, filters, dust separators, dust removal or automatic exchange of filters	<a href="#">A47L 9/10</a>
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**B01D 2279/60**

**References**

***Informative references***

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

Combustion-air cleaners specially adapted for internal-combustion engines, using filters, e.g. moistened	<a href="#">F02M 35/024</a>
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**B01D 2279/65**

**References**

***Informative references***

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

Disinfection, sterilisation or deodorisation of air	<a href="#">A61L 9/00</a>
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**B01J 2219/00889**

**References**

***Informative references***

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

Micromixers	<a href="#">B01F 33/30</a>
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**B03D 2201/00**

**References**

Informative references

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

Use of substances as emulsifying, wetting, dispersing or foam-producing agents	<a href="#">C09K 23/00</a>
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**B03D 2203/00**

**References**

***Informative references***

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

Defibrating of waste paper by de-inking devices	<a href="#">D21B 1/325</a>
Paper pulp processing by flotation	<a href="#">D21F 1/70</a>



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**B03D 2203/008**

**References**

***Informative references***

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

Waste water treatment by flotation	<a href="#">C02F 1/24</a>
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**B23B 2226/45**

**References**

***Informative references***

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

Working stone or stone-like materials by boring or drilling	<a href="#">B28D 1/14</a>
Working stone or stone-like materials by turning	<a href="#">B28D 1/16</a>

**B23B 2226/75**

**References**

***Informative references***

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

Working stone or stone-like materials	<a href="#">B28D</a>
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**B23B 2231/26**

**References**

***Informative references***

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

Arrangements for indicating the presence of a work or tool in its holder	<a href="#">B23Q 17/006</a>
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**B23B 2240/28**

**References**

***Informative references***

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

Chucks characterised by retention done by friction only, using heating and cooling	<a href="#">B23B 31/1179</a>
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**B23B 2247/02**

**References**

***Informative references***

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

Working stone or stone-like materials by lens-drilling machines	<a href="#">B28D 1/143</a>
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**B23C 2226/45**

**References**

***Informative references***

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

Working stone or stone-like materials by milling, e.g. channelling by means of milling tools	<a href="#">B28D 1/18</a>
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**B23C 2226/75**

**References**

***Informative references***

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

Working stone or stone-like materials by milling, e.g. channelling by means of milling tools	<a href="#">B28D 1/18</a>
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**B23C 2260/56**

**References**

***Informative references***

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

Auxiliary treatment of workpieces, immediately preceding a cutting tool	<a href="#">B23P 25/003</a>
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**B23D 2277/2407****References*****Informative references***

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

Chemical coating by decomposition of gaseous compounds without leaving reaction products of surface material in the coating, i.e. chemical vapour deposition [CVD] processes	<a href="#">C23C 16/00</a>
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**B23D 2277/2414****References*****Informative references***

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

Coating by vacuum evaporation, by sputtering or by ion implementation of the coating forming material	<a href="#">C23C 14/00</a>
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**B23G 2200/08****References*****Informative references***

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

Manually-operated thread-cutting devices with means for adjusting the threading tool	<a href="#">B23G 1/28</a>
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**B27K 2200/10**

**References**

***Informative references***

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

Manufacture by dry processes of articles with or without organic binding agents, made from particles or fibres consisting of wood or other lignocellulosic or like organic material	<a href="#">B27N</a>
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**B27K 2200/30**

**References**

***Informative references***

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

Layered products, i.e. products built-up of strata of flat or non-flat, e.g. cellular or honey comb, form	<a href="#">B32B</a>
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**B27K 2240/10**

**References**

***Informative references***

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

Solvent extraction	<a href="#">B01D 11/00</a>
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**B27K 2240/15****References*****Informative references****Attention is drawn to the following places, which may be of interest for search:*

Processes for making harmful chemical substances harmless or less harmful, by effecting chemical change in the substances	<a href="#">A62D 3/00</a>
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**B27K 2240/20****References*****Informative references****Attention is drawn to the following places, which may be of interest for search:*

Biocidal compositions	<a href="#">A01N</a>
Methods or apparatus for sterilising materials or objects in general; Disinfection, sterilisation or deodorisation of air; Chemical aspects of bandages, dressings, absorbent pads or surgical articles; Materials for bandages, dressing absorbent pads or surgical articles	<a href="#">A61L</a>

**B27K 2240/30****References*****Informative references****Attention is drawn to the following places, which may be of interest for search:*

Fireproofing materials in general	<a href="#">C09K 21/00</a>
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**B29C 2033/385****References*****Informative references****Attention is drawn to the following places, which may be of interest for search:*

Modular mould systems [MMS], e.g. plates, blocks, rods in general	<a href="#">B29C 33/301</a>
Constructional features of the moulds for pneumatic tyres, the moulds being made of a plurality of laminations	<a href="#">B29D 2030/0609</a>

**B29C 2035/0283****References**

Informative references

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

Thermal after-treatment of articles without altering their shape	<a href="#">B29C 71/02</a>
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**B29C 2043/022****References*****Informative references****Attention is drawn to the following places, which may be of interest for search:*

Moulds or cores characterised by the location of the parting line of the mould parts	<a href="#">B29C 33/005</a>
Moulding single grooves or ribs, e.g. tear lines	<a href="#">B29C 37/0057</a>
Forming folding lines by pressing or scoring	<a href="#">B29C 53/06</a>

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**B29C 2045/0044**

**References**

***Informative references***

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

Moulds with means for removing excess material, e.g. with overflow cavities	<a href="#">B29C 45/2669</a>
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**B29C 2045/0072**

**References**

***Informative references***

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

Moulds having several axially spaced mould cavities	<a href="#">B29C 45/32</a>
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**B29C 2045/0077**

**References**

***Informative references***

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

Deburring or deflashing in general	<a href="#">B29C 37/02</a>
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**B29C 2045/14934**

**References**

***Informative references***

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

Sealing means between mould and article	<a href="#">B29C 45/14418</a>
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**B29C 2045/1698**

**References**

***Informative references***

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

Making multi-layered or multicoloured articles with a non-uniform dispersion of the moulding material in the article, e.g. resulting in a marble effect	<a href="#">B29C 45/1634</a>
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**B29C 2045/1741**

**References**

***Informative references***

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

Mould seals for injection moulding	<a href="#">B29C 45/2608</a>
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**B29C 2045/1793**

**References**

***Informative references***

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

Linear motors; Sectional motors	<a href="#">H02K 41/02</a>
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**B29C 2045/1797**

**References**

***Informative references***

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

Auxiliary operation using a particular environment during moulding, e.g. moisture-free or dust-free	<a href="#">B29C 45/1701</a>
Means for guiding or orienting articles while dropped from the mould	<a href="#">B29C 45/1771</a>
Moulds having venting means	<a href="#">B29C 45/34</a>
Used as safety device	<a href="#">B29C 45/84</a>

**B29C 2045/5665**

**References**

***Informative references***

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

Moulds having transversely, e.g. radially, movable mould parts	<a href="#">B29C 45/33</a>
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**B29C 2045/764**

**References**

***Informative references***

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

Force sensors associated with industrial machines or actuators with specific indicating arrangements, e.g. of overload	<a href="#">G01L 5/0071</a>
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**B29C 2045/848**

**References**

***Informative references***

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

Force sensors associated with industrial machines or actuators with specific indicating arrangements, e.g. of overload	<a href="#">G01L 5/0071</a>
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**B29C 2049/542**

**References**

***Informative references***

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

Moulds with means for, or specially constructed to facilitate, the removal of articles, e.g. of undercut articles	<a href="#">B29C 33/44</a>
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**B29C 2071/0027****References*****Informative references***

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

Auxiliary treatment of granules	<a href="#">B29B 9/16</a>
Conditioning or physical treatment of the material to be shaped	<a href="#">B29B 13/00</a>

**B29C 2791/009****References*****Informative references***

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

Curing during moulding using laser	<a href="#">B29C 2035/0838</a>
Welding using laser beams	<a href="#">B29C 65/16</a>

**B29D 2030/0607****References*****Informative references***

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

Moulds or cores in general	<a href="#">B29C 33/00</a>
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**B29D 2030/0614**

**References**

***Informative references***

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

Porous moulds	<a href="#">B29C 33/3814</a>
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**B29D 2030/0666**

**References**

***Informative references***

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

Heating or curing during moulding, using liquids, gas or steam	<a href="#">B29C 35/04</a>
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**B29D 2030/0682**

**References**

***Informative references***

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

Inflatable pneumatic tyres with impervious liner or coating on the inner wall of the tyre	<a href="#">B60C 5/14</a>
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**B29D 2030/383**

**References**

***Informative references***

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

Pretreatment of reinforcements or fillers	<a href="#">B29B 15/08</a>
Chemical pretreatment of textile inserts before building the tyre	<a href="#">B29D 30/40</a>
Treating fibres, threads, yarns, fabrics with macromolecular compounds	<a href="#">D06M 15/00</a>

**B29D 2030/421**

**References**

***Informative references***

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

Joining of performed parts	<a href="#">B29C 65/00</a>
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**B29D 2030/422**

**References**

***Informative references***

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

Single butt to butt joints in general	<a href="#">B29C 66/1142</a>
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**B29D 2030/423**

**References**

***Informative references***

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

Single lap to lap joints, i.e. overlap joints	<a href="#">B29C 66/1122</a>
Single bevel to bevel joints, e.g. mitre joints	<a href="#">B29C 66/1162</a>

**B29D 2030/424**

**References**

***Informative references***

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

Joining devices characterised by the movement of the joining tools	<a href="#">B29C 66/83</a>
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**B29D 2030/425**

**References**

***Informative references***

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

Joining devices characterised by the movement of the joining tools	<a href="#">B29C 66/83</a>
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**B29D 2030/426**

**References**

***Informative references***

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

Joining devices characterised by the movement of the joining tools	<a href="#">B29C 66/83</a>
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**B29D 2030/427**

**References**

***Informative references***

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

Positioning the parts to be joined, e.g. aligning, indexing or centring	<a href="#">B29C 65/7802</a>
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**B29D 2030/428**

**References**

***Informative references***

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

Positioning the parts to be joined by using stops	<a href="#">B29C 65/7835</a>
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**B29D 2030/726**

**References**

***Informative references***

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

Protecting, decorating, marking tyre sidewalls	<a href="#">B60C 13/00</a>
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**B29D 2030/728**

**References**

***Informative references***

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

Protecting, decorating, marking tyre sidewalls	<a href="#">B60C 13/00</a>
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**B32B 2260/021**

**References**

***Informative references***

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

Layers of natural mineral fibres or particles being impregnated or embedded in a plastic substance	<a href="#">B32B 19/02</a>
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**B32B 2260/025**

**References**

***Informative references***

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

Layers of natural mineral fibres or particles being impregnated or embedded in a plastic substance	<a href="#">B32B 19/02</a>
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**B32B 2262/10**

**References**

***Informative references***

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

Layered products comprising natural mineral fibres or particles, e.g. asbestos, mica	<a href="#">B32B 19/00</a>
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**B41M 2205/40**

**References**

***Informative references***

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

After-treatment of prints, e.g. heating, irradiating	<a href="#">B41M 7/00</a>
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**B41P 2213/42**

**References**

***Informative references***

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

Cylinders of rotary presses or machines with means for preventing or damping vibrations or shocks	<a href="#">B41F 13/085</a>
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**B41P 2227/20**

**References**

***Informative references***

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

Devices for attaching cylindrical printing formes	<a href="#">B41F 27/105</a>
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**B60G 2206/82014**

**References**

***Informative references***

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

Non-electric welding by means of high energy impulses, e.g. magnetic energy	<a href="#">B23K 20/06</a>
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**B60K 2006/381**

**References**

***Informative references***

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

Transmission of prime-movers for changing ratio	<a href="#">B60K 6/54</a>
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**B60K 2015/03434**

**References**

***Informative references***

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

Filter caps for fuel tanks provided with a lock	<a href="#">B60K 15/0409</a>
Locking means for the inlet cover of fuel tank	<a href="#">B60K 2015/0561</a>

**B60K 2023/025**

**References**

***Informative references***

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

Friction clutch adjustment for removing slack	<a href="#">F16D 13/75</a>
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**B60R 2019/1806**

**References**

***Informative references***

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

Bumper beams made of cellular materials	<a href="#">B60R 19/22</a>
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**B60Y 2300/00**

**References**

***Informative references***

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

Purposes of road vehicle drive control systems not related to the control of a particular sub-unit	<a href="#">B60W 30/00</a>
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**B60Y 2302/00**

**References**

***Informative references***

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

Safety devices for propulsion-unit control in responsive to conditions relating to the driver	<a href="#">B60K 28/02</a>
Estimation or calculation driving parameters for road vehicle control systems related to driving style	<a href="#">B60W 40/09</a>

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**B62K 2204/00**

**References**

***Informative references***

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

Rider propulsion of wheeled vehicles with additional source of power, e.g. combustion engine or electric motor	<a href="#">B62M 6/00</a>
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**B63C 2011/027**

**References**

***Informative references***

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

Divers' equipment	<a href="#">B63C 11/02</a>
Diving computers, i.e. portable computers specially adapted for divers	<a href="#">B63C 2011/021</a>

**B64D 2231/025**

**References**

***Informative references***

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

Aircraft seats combined with storage means, said storage means being specially adapted for emergency equipment	<a href="#">B64D 11/0629</a>
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**B65B 2210/06****References*****Informative references***

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

Cleaning in general; Prevention of fouling in general	<a href="#">B08B</a>
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**B65B 2220/04****References*****Informative references***

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

Collapsible containers, i.e. with walls hinged together or detachably connected	<a href="#">B65D 11/18</a>
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**B65B 2220/24****References*****Informative references***

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

Cooling or cooling and pressing, package closures after heat-sealing	<a href="#">B65B 51/32</a>
Auxiliary devices for heating or cooling articles or materials to facilitate packaging	<a href="#">B65B 63/08</a>

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**B65D 2203/04****References*****Informative references****Attention is drawn to the following places, which may be of interest for search:*

Inspection openings or windows of rigid or semi-rigid containers with means for indicating level of contents	<a href="#">B65D 25/56</a>
Information or decoration elements of sacks or bags, e.g. level indicators, detachable tabs or coupons	<a href="#">B65D 33/004</a>

**B65D 2255/00****References*****Informative references****Attention is drawn to the following places, which may be of interest for search:*

Tamper preventing initial depression of the actuator for delivery of liquid or semi-liquid by internal gaseous	<a href="#">B65D 83/226</a>
Means for locking the hinged closure of container in open position	<a href="#">B65D 2251/1008</a>
Means for locking the hinged closure of container in closed position	<a href="#">B65D 2251/1016</a>



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**B65D 2581/3425**

**References**

***Informative references***

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

Trays with moulded compartments or partitions	<a href="#">B65D 1/36</a>
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**B65H 2301/41342**

**References**

***Informative references***

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

Cores, formers, supports or holders for coiled, wound or folded material, of circular or polygonal cross-section	<a href="#">B65H 75/08</a>
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**E05B 2017/0095**

**References**

***Informative references***

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

Locks with arrangements independent of the locking mechanism for retaining the bolt in the retracted position	<a href="#">E05B 63/18</a>
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**E05B 2035/009**

**References**

***Informative references***

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

Electronically operated locks using personal physical data of the operator, e.g. finger prints, retinal images, voice patterns	<a href="#">G07C 9/00563</a>
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**E05B 2047/0014**

**References**

***Informative references***

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

Power-actuated vehicle locks characterised by constructional features of the actuator or the power transmission	<a href="#">E05B 81/24</a>
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**E05B 2047/0089**

**References**

***Informative references***

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

Individual registration on entry or exit	<a href="#">G07C 9/00</a>
Electronically operated locks	<a href="#">G07C 9/00174</a>

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**E05B 2047/0094**

**References**

***Informative references***

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

Individual registration on entry or exit	<a href="#">G07C 9/00</a>
Electronically operated locks	<a href="#">G07C 9/00174</a>

**E05B 2047/0095**

**References**

***Informative references***

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

Individual registration on entry or exit	<a href="#">G07C 9/00</a>
Electronically operated locks	<a href="#">G07C 9/00174</a>

**E05B 2047/0096**

**References**

***Informative references***

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

Individual registration on entry or exit	<a href="#">G07C 9/00</a>
Electronically operated locks	<a href="#">G07C 9/00174</a>

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**E05F 2015/765**

**References**

***Informative references***

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

Power-operated mechanisms for wings with automatic actuation using photoelectric cells	<a href="#">E05F 15/74</a>
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**F02M 2200/29**

**References**

***Informative references***

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

Rotary valves for fuel-injection	<a href="#">F02M 63/0038</a>
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**F04B 2201/021**

**References**

***Informative references***

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

Piston machines or pumps in which the valving is performed by the pistons and cylinders being relatively reciprocated and rotated	<a href="#">F04B 7/06</a>
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**F05B 2250/84**

**References**

***Informative references***

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

Nanotechnology for interacting, sensing or actuating, e.g. quantum dots as markers in protein assays or molecular motors	<a href="#">B82Y 15/00</a>
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**F05B 2260/02**

**References**

***Informative references***

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

Arrangements or methods specially adapted for transporting wind motor components	<a href="#">F03D 13/40</a>
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**F05D 2260/61**

**References**

***Informative references***

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

Removal of carbon dioxide from waste gases	<a href="#">B01D 53/62</a>
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**F16C 2202/40****References*****Informative references****Attention is drawn to the following places, which may be of interest for search:*

Magnets or magnetic bodies characterised by the magnetic materials therefor; Selection of materials for their magnetic properties	<a href="#">H01F 1/00</a>
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**F16C 2206/80****References*****Informative references****Attention is drawn to the following places, which may be of interest for search:*

Alloys based on carbides, oxides, nitrides, borides or silicides	<a href="#">C22C 29/00</a>
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**F16C 2220/02****References*****Informative references****Attention is drawn to the following places, which may be of interest for search:*

Casting of metals in general	<a href="#">B22D</a>
Shaping by casting	<a href="#">B29C 39/00</a>

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## F16C 2220/04

### References

#### *Informative references*

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

Injection moulding of plastics in general	<a href="#">B29C 45/00</a>
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## F16C 2220/20

### References

#### *Informative references*

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

Working metallic powder in general	<a href="#">B22F</a>
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## F16C 2220/24

### References

Informative references

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

Welding for other purposes than joining, e.g. built-up welding	<a href="#">B23K 9/04</a>
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**F16C 2220/28**

**References**

***Informative references***

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

Shaping composites, i.e. plastics material comprising reinforcements, fillers or performed parts, e.g. inserts	<a href="#">B29C 70/00</a>
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**F16C 2220/42**

**References**

***Informative references***

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

Working or processing of sheet metal or metal tubes, rods or profiles without essentially removing material	<a href="#">B21D</a>
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**F16C 2220/44**

**References**

***Informative references***

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

Making particular metal objects by rolling, e.g. screws, wheels, rings, barrels, balls	<a href="#">B21H</a>
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**F16C 2220/46**

**References**

***Informative references***

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

Forging; Hammering; Pressing metal; Riveting; Forge furnaces	<a href="#">B21J</a>
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**F16C 2220/48**

**References**

***Informative references***

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

Extruding metal; Impact extrusion	<a href="#">B21C 23/00</a>
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**F16C 2220/62**

**References**

***Informative references***

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

Turning; Boring	<a href="#">B23B</a>
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**F16C 2220/66**

**References**

***Informative references***

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

Milling in general	B23C
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**F16C 2220/68**

**References**

***Informative references***

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

Working of metal by the action of a high concentration of electric current on a workpiece using an electrode which takes the place of a tool	B23H
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**F16C 2220/70**

**References**

Informative references

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

Machines, devices or processes for grinding or polishing	B24B
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**F16C 2220/82**

**References**

***Informative references***

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

Cutting; Details common to machines for perforating, punching, cutting-out, stamping-out or severing	B26D
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**F16C 2220/84**

**References**

***Informative references***

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

Perforating; Punching; Cutting-out; Stamping-out; Severing by means other than cutting	B26F
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**F16C 2223/04**

**References**

***Informative references***

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

Treating or finishing metallic surfaces mechanically, with or without calibrating	B23P 9/00
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**F16C 2223/06****References****Informative references***Attention is drawn to the following places, which may be of interest for search:*

Machines or devices for polishing surfaces	<a href="#">B24B 29/00</a>
Machines or devices designed for polishing or abrading surfaces on work by means of tumbling apparatus	<a href="#">B24B 31/00</a>

**F16C 2223/08****References****Informative references***Attention is drawn to the following places, which may be of interest for search:*

Abrasive or related blasting with particulate material	<a href="#">B24C</a>
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**F16C 2223/10****References****Informative references***Attention is drawn to the following places, which may be of interest for search:*

Modifying the physical structure of ferrous metals	<a href="#">C21D</a>
Solid state diffusion of only non-metal elements into metallic material surfaces	<a href="#">C23C 8/00</a>

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**F16C 2223/30**

**References**

***Informative references***

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

Apparatus for applying fluent materials to surfaces, in general	B05C
Coating metallic material; Coating material with metallic material; Coating by vacuum evaporation, by sputtering, by ion implantation or by chemical vapour deposition, in general	C23C

**F16C 2223/32**

**References**

***Informative references***

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

Layered products, i.e. products built-up of strata of flat or non-flat, e.g. cellular or honeycomb, form	B32B
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**F16C 2223/40**

**References**

***Informative references***

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

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Hot-dipping or immersion processes for applying the coating material in the molten state without affecting the shape	C23C 2/00
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**F16C 2223/42**

**References**

***Informative references***

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

Coating by spraying the coating material in the molten state, e.g. by flame, plasma or electric discharge	C23C 4/00
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**F16C 2223/44**

**References**

***Informative references***

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

Coating by casting molten material on the substrate	C23C 6/00
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**F16C 2223/46**

**References**

***Informative references***

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

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Welding for other purposes than joining, e.g. built-up welding	B23K 9/04
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**F16C 2223/60**

**References**

***Informative references***

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

Coating by vacuum evaporation, by sputtering or by ion implantation of the coating forming material	C23C 14/00
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**F16C 2223/70**

**References**

***Informative references***

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

Processes for the electrolytic or electrophoretic production of coatings; Electroforming	C25D
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**F16C 2223/80**

**References**

***Informative references***

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

Manufacture of composite layers, workpieces or articles, comprising metallic powder, by sintering the powder, with or without compacting	B22F 7/00
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**F16C 2226/00**

**References**

***Informative references***

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

Devices for fastening or securing constructional elements or machine parts together, e.g. nails, bolts, circlips, clamps, clips or wedges; Joints or jointing	F16B
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**F16C 2226/10**

**References**

***Informative references***

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

Shrinkage connections, e.g. assembled with the parts at different temperature; Force fits	F16B 4/00
Couplings for rigidly connecting two coaxial shafts or other movable machine elements	F16D 1/00



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**F16C 2226/14**

**References**

***Informative references***

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

Connecting or disconnecting metal objects by first expanding and then shrinking or vice versa	<a href="#">B23P 11/02</a>
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**F16C 2226/30**

**References**

***Informative references***

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

Soldering or unsoldering; Welding; Cladding or plating by soldering or welding	<a href="#">B23K</a>
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**F16C 2226/54**

**References**

***Informative references***

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

Bolts without screw-thread; Pins, including deformable elements; Rivets	<a href="#">F16B 19/00</a>
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**F16C 2226/60**

**References**

**Informative references**

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

Specially shaped heads of bolts or screws for rotations by a tool	F16B 23/00
Screws that cut thread in the body into which they are screwed, e.g. wood screws	F16B 25/00
Bolts, screws or nuts formed in integral series but easily separable, particularly for use in automatic machines	F16B 27/00
Screwed connection with deformation of nut or auxiliary member while fastening	F16B 29/00
Screwed connections specially modified in view of tensile load; Break-bolts	F16B 31/00
Features common to bolt and nut	F16B 33/00
Screw-bolts; Stay-bolts; Screw-threaded studs; Screws; Set screws	F16B 35/00
Nuts or like thread-engaging members	F16B 37/00
Locking of screws, bolts or nuts	F16B 39/00
Measures against loss of bolts, nuts or pins; Measures against unauthorised operation of bolts, nuts or pins	F16B 41/00
Washers or equivalent devices; Other devices for supporting bolt-heads or nuts	F16B 43/00

**F16C 2320/23**

**References**

**Informative references**

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

Crushing, pulverising or disintegrating in general	B02C
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**F16C 2320/42**

**References**

***Informative references***

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

Centrifuges	B04B
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**F16C 2322/34**

**References**

***Informative references***

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

Planning; Slotting; Shearing; Broaching; Sawing; Filing; Scraping	B23D
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**F16C 2322/39**

**References**

***Informative references***

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

Details, components or accessories for machine tools	B23Q
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**F16C 2322/59**

**References**

***Informative references***

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

Manipulators; Chambers provided with manipulation devices	<a href="#">B25J</a>
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**F16C 2324/16**

**References**

***Informative references***

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

Printing machines or presses	<a href="#">B41F</a>
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**F16C 2326/02**

**References**

***Informative references***

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

Vehicle wheels; Castors; Axles for wheels or castors	<a href="#">B60B</a>
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**F16C 2326/05**

**References**

***Informative references***

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

Vehicle suspension arrangements	B60G
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**F16C 2326/06**

**References**

***Informative references***

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

Arrangements or mounting of propulsion units or of transmissions in vehicles	B60K
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**F16C 2326/08**

**References**

***Informative references***

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

Seats specially adapted for vehicles	B60N
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**F16C 2326/09**

**References**

***Informative references***

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

Servicing, cleaning, repairing, supporting, lifting or manoeuvring of vehicles	B60S
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**F16C 2326/24**

**References**

***Informative references***

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

Motor vehicles; Trailers	B62D
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**F16C 2326/26**

**References**

***Informative references***

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

Cycles; Cycle frames; Cycle steering devices	B62K
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**F16C 2326/28**

**References**

***Informative references***

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

Rider propulsion of wheeled vehicles or sledges; Powered propulsion of sledges or cycles	<a href="#">B62M</a>
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**F16C 2326/30**

**References**

***Informative references***

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

Marine propulsion or steering	<a href="#">B63H</a>
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**F16C 2326/43**

**References**

***Informative references***

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

Aeroplanes; Helicopters	<a href="#">B64C</a>
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**F16C 2326/47**

**References**

Informative references

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

Cosmonautics; Vehicles or equipment therefor	B64G
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**F16C 2326/58**

**References**

***Informative references***

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

Transport or storage devices	B65G
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**F16C 2340/18**

**References**

***Informative references***

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

Spinning or twisting	D01H
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**F16C 2340/24**

**References**

***Informative references***

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

Motor vehicles; Trailers	B62D
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**F16C 2350/26**

**References**

***Informative references***

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

Dredging; Soil-shifting	E02F
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**F16C 2350/52**

**References**

***Informative references***

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

Locks; Accessories therefor; Handcuffs	E05B
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**F16C 2350/54**

**References**

***Informative references***

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

Hinges or suspension devices for doors, windows or wings	<a href="#">E05D</a>
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**F16C 2360/18**

**References**

***Informative references***

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

Cyclically operating valves for machines or engines	<a href="#">F01L</a>
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**F16C 2360/22**

**References**

***Informative references***

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

Internal-combustion piston engines; Combustion engines in general	<a href="#">F02B</a>
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**F16C 2360/23**

**References**

***Informative references***

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

Gas-turbine plants; Air intakes for jet-propulsion plants; Controlling fuel supply in air-breathing jet-propulsion plants	F02C
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**F16C 2360/24**

**References**

***Informative references***

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

Turbochargers, i.e. plants for augmenting mechanical power output of internal-combustion piston engines by increase of charge pressure	F02C 6/12
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**F16C 2360/31**

**References**

***Informative references***

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

Wind motors	F03D
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**F16C 2360/42**

**References**

***Informative references***

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

Positive-displacement machines for liquids; Pumps	F04B
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**F16C 2360/43**

**References**

***Informative references***

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

Rotary-piston or oscillating-piston, positive-displacement machines for liquids	F04C
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**F16C 2360/44**

**References**

***Informative references***

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

Non-positive displacement pumps	F04D
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**F16C 2360/45**

**References**

***Informative references***

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

Multi-stage pumps specially adapted to the production of a high vacuum, e.g. molecular pumps	<a href="#">F04D 19/04</a>
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**F16C 2361/41**

**References**

***Informative references***

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

Yielding couplings, i.e. with means permitting movement between the connected parts during the drive	<a href="#">F16D 3/00</a>
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**F16C 2361/43**

**References**

***Informative references***

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

Coupling for transmitting rotation; Clutches; Brakes	<a href="#">F16D</a>
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**F16C 2361/45**

**References**

***Informative references***

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

Vehicle brake control systems or parts thereof	<a href="#">B60T</a>
Coupling for transmitting rotation; Clutches; Brakes	<a href="#">F16D</a>

**F16C 2361/53**

**References**

***Informative references***

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

Springs, vibration-dampers, shock-absorbers using a fluid or the equivalent as damping medium	<a href="#">F16F 9/00</a>
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**F16C 2361/55**

**References**

***Informative references***

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

Suppression of vibrations in systems; Means or arrangements for avoiding or reducing out-of-balance forces, e.g. due to motion	<a href="#">F16F 15/00</a>
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**F16C 2361/61**

**References**

***Informative references***

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

Gearboxes; Mounting gearing therein	F16H 57/02
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**F16C 2361/71**

**References**

***Informative references***

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

Belts, cables or ropes, predominantly used for driving purposes; Chains; Fittings predominantly used therefor	F16G
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**F16C 2370/38**

**References**

***Informative references***

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

Electrography; Electrophotography; Magnetography	G03G
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**F16C 2380/16**

**References**

***Informative references***

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

X-ray tubes	<a href="#">H01J 35/00</a>
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**F16C 2380/26**

**References**

***Informative references***

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

Dynamo-electric machines	<a href="#">H02K</a>
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**F16D 2048/0227**

**References**

***Informative references***

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

Fluid-actuated clutches with the line of action of the fluid-actuated members being distinctly separate from the axis of rotation	<a href="#">F16D 25/088</a>
Clutches and systems of clutches with a fluid pressure piston driven by an electric motor	<a href="#">F16D 29/005</a>



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**F16H 2025/2059**

**References**

***Informative references***

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

Telescopic screws with at least three screw members in coaxial arrangement	<a href="#">F16H 25/2056</a>
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**F16H 2025/249**

**References**

***Informative references***

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

Screw mechanisms of gearing to be lubricated, cooled or heated	<a href="#">F16H 57/0497</a>
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**F16H 2035/003**

**References**

***Informative references***

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

Wave gearings, e.g. harmonic drive transmissions	<a href="#">F16H 49/001</a>
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**F16H 2035/005**

**References**

***Informative references***

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

Brakes or rotational locks in gearing for conveying or interconverting oscillating or reciprocating motions	<a href="#">F16H 25/2454</a>
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**F16H 2035/006**

**References**

***Informative references***

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

Means specially adapted for stopping actuators in the end position or position sensing means for conveying or interconverting oscillating or reciprocating motions	<a href="#">F16H 25/2015</a>
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**F16H 2057/005**

**References**

***Informative references***

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

Adjustment of gear shafts or bearings	<a href="#">F16H 57/022</a>
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**F16H 2057/0087**

**References**

***Informative references***

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

Computer-aided design [CAD]	<a href="#">G06F 30/00</a>
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**F16H 2057/018**

**References**

***Informative references***

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

Fixing of or adapting to transmission failure	<a href="#">F16H 2057/0081</a>
Detecting malfunction or potential malfunction, e.g. fail safe	<a href="#">F16H 61/12</a>

**F16H 2057/02034**

**References**

***Informative references***

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

Structural association of dynamo-electric machines with gears	<a href="#">H02K 7/116</a>
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**F16H 2057/02091**

**References**

***Informative references***

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

Gearboxes; Mounting gearing therein, characterised by the materials used	<a href="#">F16H 57/032</a>
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**F16H 2057/087**

**References**

***Informative references***

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

Gearings having three or more central gears	<a href="#">F16H 3/62</a>
Control outputs to change-speed- or reversing-gearings for conveying rotary motion, with final output mechanisms comprising friction clutches or brakes	<a href="#">F16H 63/3026</a>

**F16H 2059/0221**

**References**

***Informative references***

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

Control inputs to change-speed- or reversing-gearings for conveying rotary motion with range selector apparatus with different modes	<a href="#">F16H 2059/082</a>
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Propelling the vehicle selecting between different operative modes, e.g. comfort and performance modes	<a href="#">B60W 30/182</a>
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**F16H 2059/023**

**References**

***Informative references***

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

Electric or fluid circuits specially adapted for vehicles for occupant comfort with voice control	<a href="#">B60R 16/0373</a>
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**F16H 2059/0239**

**References**

***Informative references***

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

Control outputs to change-speed- or reversing-gearings for conveying rotary motion with multiple final output mechanisms being successively actuated by repeated movement of the final actuating mechanism	<a href="#">F16H 63/14</a>
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**F16H 2059/0243**

**References**

***Informative references***

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

Control inputs to change-speed- or reversing-gearings for conveying rotary motion with range selector apparatus comprising push button devices	<a href="#">F16H 59/12</a>
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**F16H 2059/026**

**References**

***Informative references***

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

Control inputs to change-speed- or reversing-gearings for conveying rotary motion with ratio selector apparatus comprising a final actuating mechanism	<a href="#">F16H 59/042</a>
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**F16H 2061/0037**

**References**

***Informative references***

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

Features relating to lubrication or cooling, the lubrication supply forming part of the transmission control unit, e.g. for automatic transmissions	<a href="#">F16H 57/0446</a>
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**F16H 2061/004**

**References**

***Informative references***

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

Control of fluid gearing by venting, e.g. removing trapped air	<a href="#">F16H 61/4174</a>
Removal or measurement of undissolved gas of fluid actuator systems, e.g. de-aeration, venting or bleeding	<a href="#">F15B 21/044</a>

**F16H 2061/0071**

**References**

***Informative references***

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

Gearings; Transmission mechanisms	<a href="#">G01M 13/02</a>
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**F16H 2061/0477**

**References**

***Informative references***

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

Control of torque converter lock-up clutches using electric control means	<a href="#">F16H 61/143</a>
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**F16H 2061/1204**

**References**

***Informative references***

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

Braking of gear output shaft using simultaneous engagement of friction devices applied for different gear ratios	<a href="#">F16H 61/0059</a>
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**F16H 2061/226**

**References**

***Informative references***

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

Emergency release or engagement of parking locks or brakes	<a href="#">F16H 63/3491</a>
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**F16H 2061/6607**

**References**

***Informative references***

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

Friction gearing to be lubricated, cooled or heated	<a href="#">F16H 57/0487</a>
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**F16H 2063/3046**

**References**

***Informative references***

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

Constructional features of the final output mechanisms comprising friction clutches or brakes moved by electrical or magnetic forces	<a href="#">F16H 63/3043</a>
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**F16H 2063/3093**

**References**

***Informative references***

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

Control outputs to change-speed- or reversing-gearings for conveying rotary motion with final output mechanisms comprising friction clutches or brakes	<a href="#">F16H 63/3026</a>
Constructional features of the final output mechanisms using electromagnetic clutch for coupling gear wheel to shaft	<a href="#">F16H 2063/3046</a>

**F16H 2302/06**

**References**

***Informative references***

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

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Smooth ratio shift timing control within change-speed- or reversing-gearings for conveying rotary motion	<a href="#">F16H 61/08</a>
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**F16H 2306/20**

**References**

***Informative references***

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

Smooth ratio shift timing control within change-speed- or reversing-gearings for conveying rotary motion	<a href="#">F16H 61/08</a>
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**F16H 2306/36**

**References**

***Informative references***

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

Control of exclusively fluid gearing involving use of a speed-changing gearing or of a clutch in the connection between runners	<a href="#">F16H 61/62</a>
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**F23C 2900/03003**

**References**

***Informative references***

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

Continuous combustion chambers comprising an annular flame tube within an annular casing	<a href="#">F23R 3/50</a>
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**F23D 2900/00006**

**References**

***Informative references***

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

Burners for combustion of a gas using a mixture of gaseous fuel and pure oxygen or oxygen-enriched air	<a href="#">F23D 14/32</a>
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**F23R 2900/00014**

**References**

***Informative references***

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

Helmholtz resonators	<a href="#">F01N 1/023</a>
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**F27D 2001/0046**

**References**

***Informative references***

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

Making or repairing linings	<a href="#">F27D 1/16</a>
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**F27D 2001/0053**

**References**

***Informative references***

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

Multicellular type furnaces constructed with add-on modules, through which charge is moved mechanically or in which charge moves by gravity	<a href="#">F27B 9/029</a>
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**F27D 2001/0069**

**References**

***Informative references***

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

Linings or walls comprising head shields, e.g. heat shields	<a href="#">F27D 1/0033</a>
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**F27D 2001/0079**

**References**

***Informative references***

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

Assembling elements as supports for linings	<a href="#">F27D 1/145</a>
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**F27D 2001/0083**

**References**

***Informative references***

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

Linings or walls formed from bricks or layer with particular composition or specific characteristics	<a href="#">F27D 1/0003</a>
Door frames; Doors, lids, removable covers	<a href="#">F27D 1/18</a>
Movement of the container or support of the charge in the furnace or in the charging facilities	<a href="#">F27D 2003/0085</a>

**F27D 2099/008**

**References**

***Informative references***

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

Charging or loading melting furnaces with material in the solid state using an air-lock	<a href="#">F27D 3/0032</a>
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**F28C 2001/006**

**References**

***Informative references***

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

Auxiliary systems with provision for re-cooling the cooling water or other cooling liquid	<a href="#">F28B 9/06</a>
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**F28D 2020/0017**

**References**

***Informative references***

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

Heat storage plants using latent heat, the latent heat storage material being enclosed in granular particles or dispersed in porous, fibrous or cellular structure	<a href="#">F28D 20/023</a>
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**F28D 2021/0021**

**References**

***Informative references***

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

Arrangements or adaptations of air-treatment apparatus for aircraft crew or passengers or freight space	<a href="#">B64D 13/00</a>
Arrangements or adaptations of devices for temperature control of cosmonautic vehicles	<a href="#">B64G 1/50</a>

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**F28D 2021/0028**

**References**

***Informative references***

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

Arrangements for cooling, heating, ventilating or temperature compensation of semiconductor or other solid-state devices	<a href="#">H01L 23/34</a>
Modifications to facilitate cooling, ventilating or heating of electric apparatus	<a href="#">H05K 7/20</a>

**F28D 2021/0033**

**References**

***Informative references***

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

Details of the cold heat exchange system of liquefaction equipment	<a href="#">F25J 1/0262</a>
Process for separating the constituents of gaseous mixture by rectification for air	<a href="#">F25J 3/04</a>

**F28D 2021/0038**

**References**

***Informative references***

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

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Drying gases or vapours by refrigeration or condensation	<a href="#">B01D 53/265</a>
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**F28D 2021/004****References*****Informative references***

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

Heat exchangers immersed in a natural body of water, e.g. marine radiators	<a href="#">F28D 1/022</a>
Radiators for vehicles for recooling the engine coolant	<a href="#">F28D 2021/0094</a>

**F28D 2021/0043****References*****Informative references***

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

Auxiliary arrangements for fuel cells related to heat exchange	<a href="#">H01M 8/04007</a>
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**F28D 2021/0045****References*****Informative references***

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



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Heat exchange apparatus using a fluidised bed	<a href="#">F28D 13/00</a>
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**F28D 2021/005**

**References**

***Informative references***

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

Heating or cooling appliances for medical or therapeutic treatment of the human body	<a href="#">A61F 7/00</a>
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**F28D 2021/0054**

**References**

***Informative references***

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

Cooling arrangements within the pressure vessel containing the core; Selection of specific coolants	<a href="#">G21C 15/00</a>
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**F28D 2021/0056**

**References**

***Informative references***

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

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Arrangements for using waste heat; Arrangements for using or disposing of waste gases	<a href="#">F27D 17/00</a>
Heat exchange for combustion apparatus, e.g. for boilers	<a href="#">F28D 2021/0024</a>

**F28D 2021/0061**

**References**

***Informative references***

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

Heat exchange apparatus in which the medium condenses and evaporates, e.g. heat pipes	<a href="#">F28D 15/02</a>
Heat exchange apparatus for refrigerant cycles	<a href="#">F28D 2021/0068</a>

**F28D 2021/0063**

**References**

***Informative references***

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

Steam or vapour condensers	<a href="#">F28B</a>
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**F28D 2021/007**

**References**

***Informative references***

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

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Condensers of refrigeration machines	<a href="#">F25B 39/04</a>
Processes for separating the constituents of gaseous mixture involving the use of the liquefaction or solidification by partial condensation	<a href="#">F25J 3/06</a>
Condensers as heat exchange apparatus for vehicles	<a href="#">F28D 2021/0084</a>

**F28D 2021/0071****References*****Informative references***

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

Evaporators as refrigeration machines	<a href="#">F25B 39/02</a>
Evaporators as heat exchange apparatus for vehicles	<a href="#">F28D 2021/0085</a>

**F28D 2021/0075****References*****Informative references***

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

Cooling of cracked gases from thermal non-catalytic cracking, in the absence of hydrogen, of hydrocarbon oils	<a href="#">C10G 9/002</a>
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**F28D 2021/0082**

**References**

***Informative references***

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

Cooling of air intake supply of engines characterised by provision for charging or scavenging not provided for in groups F02B 25/00, F02B27/00 or F02B 33/00 – F02B 39/00	<a href="#">F02B 29/04</a>
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**F28D 2021/0087**

**References**

***Informative references***

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

Apparatus for thermally treating combustion-air, fuel or fuel-air mixture for cooling	<a href="#">F02M 31/20</a>
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**F28D 2021/0089**

**References**

***Informative references***

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

Heating, cooling or controlling temperature of lubricant	<a href="#">F01M 5/00</a>
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**F28D 2021/0094**

**References**

***Informative references***

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

Arrangements or mounting of liquid-to-air heat exchangers	<a href="#">F01P 3/18</a>
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**F28D 2021/0096**

**References**

***Informative references***

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

Heat exchangers for air-conditioning devices	<a href="#">B60H 1/00321</a>
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**F28F 2200/00**

**References**

***Informative references***

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

Measuring quantity of heat conveyed by flowing media, e.g. in heating systems	<a href="#">G01K 17/06</a>
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**F28F 2215/08****References*****Informative references****Attention is drawn to the following places, which may be of interest for search:*

Tubular elements for heat exchange with zig-zag shaped fins with openings, e.g. louvered fins, being only outside the tubular element	<a href="#">F28F 1/128</a>
Tubular elements for heat exchange with fins with openings	<a href="#">F28F 1/325</a>
Plate-like or laminated elements with corrugated means with openings, e.g. louvered corrugated fins; Assemblies of corrugated strips	<a href="#">F28F 3/027</a>

**F28F 2250/00****References*****Informative references****Attention is drawn to the following places, which may be of interest for search:*

Arrangements for directing heat-exchange media into successive compartments, e.g. arrangements of guide plates	<a href="#">F28F 9/22</a>
Arrangements for modifying heat transfer by affecting the pattern of flow of the heat-exchange media	<a href="#">F28F 13/06</a>

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**F28F 2265/00**

**References**

***Informative references***

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

Control arrangements or safety devices specially adapted for heat-exchange or heat-transfer apparatus	<a href="#">F28F 27/00</a>
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**F28F 2265/26**

**References**

***Informative references***

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

Floating elements as header boxes or end plates	<a href="#">F28F 9/0236</a>
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**F28F 2275/04**

**References**

***Informative references***

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

Brazing heat exchangers	<a href="#">B23K 1/0012</a>
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**F28F 2280/10**

**References**

***Informative references***

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

Elements of heat exchange specially adapted for movement	<a href="#">F28F 5/00</a>
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## 2. A. DEFINITIONS (modified)

### B65D 2251/00

#### References

Delete: The entire Limiting references section.

Insert: The following new Informative references section:

#### *Informative references*

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

Lids or covers for box-like containers	<a href="#">B65D 2543/00</a>
--	------------------------------

### B65D 2401/00

#### References

Delete: The entire Limiting references section.

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

#### *Informative references*

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

Containers or packages for delivery of liquid or semi-liquid contents by internal gaseous pressure with tamper indicating means obstructing initial actuation	<a href="#">B65D 83/224</a>
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2. B. DEFINITIONS QUICK FIX

Symbol	Location of change (e.g., section title)	Existing reference symbol or text	Action; New symbol; New text
B65D 2585/86	Definition		<u>Delete</u> the entire Definition.
B65D 2585/88	Definition		<u>Delete</u> the entire Definition.

**Notes:**

Use this Definitions Quick Fix (DQF) table to:

- Delete an entire definition
- Delete an entire section
- Change a reference symbol
- Delete a reference symbol
- Delete text in a References section
- Correct one error in spelling, article use, or verb tense

Otherwise, use the standard template.

*Reminder: Never delete F symbol definitions.*