

EUROPEAN PATENT OFFICE
U.S. PATENT AND TRADEMARK OFFICE

CPC NOTICE OF CHANGES 1652

DATE: AUGUST 1, 2024

PROJECT MP12187

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

<u>Action</u>	<u>Subclass</u>	<u>Group(s)</u>
SCHEME:		
Titles Changed:	B01D	2201/34, 2239/065, 2239/0695, 2239/1208, 2251/108, 2252/10, 2255/20, 2259/455
	B01J	2220/64, 2229/34, 2231/14, 2231/76, 2531/028
	B23B	2200/081, 2200/087, 2200/321, 2200/323, 2200/325, 2200/3627, 2200/3654, 2200/3663, 2200/3672, 2210/12, 2220/24, 2222/14, 2222/32, 2222/44, 2222/80, 2222/84, 2231/0212, 2231/0252, 2231/026, 2231/0276, 2231/2013, 2231/28, 2231/44, 2260/0482, 2260/0487, 2260/058, 2260/12, 2260/132, 2260/134, 2270/04, 2270/22, 2270/30, 2270/38, 2270/62
	B23C	2200/081, 2200/168, 2200/323, 2210/16, 2210/24, 2220/28, 2222/32, 2222/84, 2230/00, 2240/00, 2250/04, 2250/16, 2270/04
	B23K	2103/56
	B29C	2045/14852, 2045/1794
	B32B	2262/0253, 2266/025, 2274/00, 2307/308, 2307/40, 2317/22, 2319/00, 2405/00, 2413/00, 2419/00, 2419/04, 2432/00, 2437/00, 2439/00, 2451/00, 2479/00, 2535/00, 2571/02, 2605/18
	B60B	2200/00, 2900/521
	B60K	2015/03118, 2015/0319, 2015/03542, 2015/0515, 2015/0772
	B60R	2019/1886, 2021/01184, 2021/23519, 2021/23523, 2022/4473
	B60T	2240/02
	B65D	2401/20, 2501/24936, 2543/00, 2543/00074, 2543/00194, 2571/00129
	B65H	2301/4175, 2301/42262, 2301/44331, 2551/14, 2557/11, 2701/174, 2701/192
DEFINITIONS:		
Definitions New:	B01D	2201/34, 2239/065, 2239/0695, 2239/1208, 2251/108, 2252/10, 2255/20, 2259/455
	B01J	2220/64, 2229/34, 2231/14, 2231/76, 2531/028
	B23B	2200/081, 2200/087, 2200/321, 2200/323, 2200/325, 2200/3627, 2200/3654, 2200/3663, 2200/3672, 2210/12, 2220/24, 2222/14, 2222/32, 2222/44, 2222/80, 2222/84, 2231/0212, 2231/0252, 2231/026,

CPC NOTICE OF CHANGES 1652

DATE: AUGUST 1, 2024

PROJECT MP12187

<u>Action</u>	<u>Subclass</u>	<u>Group(s)</u>
		2231/0276, 2231/2013, 2231/28, 2231/44, 2260/0482, 2260/0487, 2260/058, 2260/12, 2260/132, 2260/134, 2270/04, 2270/22, 2270/30, 2270/38, 2270/62
	B23C	2200/081, 2200/168, 2200/323, 2210/16, 2210/24, 2220/28, 2222/32, 2222/84, 2230/00, 2240/00, 2250/04, 2250/16, 2270/04
	B23K	2103/56
	B29C	2045/14852, 2045/1794
	B32B	2262/0253, 2266/025, 2274/00, 2307/308, 2307/40, 2317/22, 2319/00, 2405/00, 2413/00, 2419/00, 2419/04, 2432/00, 2437/00, 2439/00, 2451/00, 2479/00, 2535/00, 2571/02, 2605/18
	B60B	2200/00, 2900/521
	B60K	2015/03118, 2015/0319, 2015/03542, 2015/0515, 2015/0772
	B60R	2019/1886, 2021/01184, 2021/23519, 2021/23523, 2022/4473
	B60T	2240/02
	B65D	2501/24936, 2543/00, 2543/00194, 2571/00129
	B65H	2301/4175, 2301/42262, 2301/44331, 2551/14, 2557/11, 2701/174, 2701/192
Definitions Modified:	B65D	2401/20, 2543/00074

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

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

1. CLASSIFICATION SCHEME CHANGES

- ☒ 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)

CPC NOTICE OF CHANGES 1652

DATE: AUGUST 1, 2024

PROJECT MP12187

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</u> <u>dots (e.g. 0,</u> <u>1, 2)</u>	<u>Title</u> “CPC only” text should normally be enclosed in {curly brackets}**	<u>Transferred to[#]</u>
M	B01D2201/34	1	Seals or gaskets for filtering elements	
M	B01D2239/065	2	More than one layer present in the filtering material	
M	B01D2239/0695	3	Wound layers	
M	B01D2239/1208	2	Porosity	
M	B01D2251/108	2	Halogens or halogen compounds	
M	B01D2252/10	1	Inorganic absorbents	
M	B01D2255/20	1	Metals or compounds thereof	
M	B01D2259/455	2	for transportable use	

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,</u> <u>1, 2)</u>	<u>Title</u> “CPC only” text should normally be enclosed in {curly brackets}**	<u>Transferred to[#]</u>
M	B01J2220/64	2	In a syringe, pipette, e.g. tip or in a tube, e.g. test-tube or u-shape tube	
M	B01J2229/34	2	Reaction with organic or organometallic compounds	
M	B01J2231/14	2	Other (co) polymerisation, e.g. of lactides or epoxides	
M	B01J2231/76	2	Dehydrogenation	
M	B01J2531/028	3	comprising affinity tags, e.g. for recovery	

SUBCLASS B23B - TURNING; BORING

<u>Type*</u>	<u>Symbol</u>	<u>Indent Level</u> <u>Number of</u> <u>dots (e.g. 0,</u> <u>1, 2)</u>	<u>Title</u> “CPC only” text should normally be enclosed in {curly brackets}**	<u>Transferred to[#]</u>
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CPC NOTICE OF CHANGES 1652

DATE: AUGUST 1, 2024

PROJECT MP12187

M	B23B2200/081	2	with projections	
M	B23B2200/087	3	for chip breaking	
M	B23B2200/321	2	by chip breaking projections	
M	B23B2200/323	2	by chip breaking depressions	
M	B23B2200/325	2	by multiple chip-breaking grooves	
M	B23B2200/3627	2	Indexing	
M	B23B2200/3654	3	being variable	
M	B23B2200/3663	3	having negative cutting angles	
M	B23B2200/3672	4	being variable	
M	B23B2210/12	1	Tools comprising weakened spot on the tool at a preferred breakage location	
M	B23B2220/24	1	Finishing	
M	B23B2222/14	1	Cast iron	
M	B23B2222/32	1	Details of high-speed steel	
M	B23B2222/44	1	Iron	
M	B23B2222/80	1	Stainless steel	
M	B23B2222/84	1	Steel	
M	B23B2231/0212	2	Shanks of tools having a reduced cross section at a position where breakage of the tool is preferred	
M	B23B2231/0252	2	Shanks having a section of reduced diameter	
M	B23B2231/026	2	Grooves	
M	B23B2231/0276	2	Keyways	
M	B23B2231/2013	3	Non-cylindrical	
M	B23B2231/28	1	Dust covers	
M	B23B2231/44	1	Nose pieces	
M	B23B2260/0482	2	Depth controls, e.g. depth stops	
M	B23B2260/0487	2	Depth indicators	
M	B23B2260/058	1	Dust covers	
M	B23B2260/12	1	Stops	
M	B23B2260/132	1	Serrations	
M	B23B2260/134	1	Spacers or shims	
M	B23B2270/04	1	Use of centrifugal force	
M	B23B2270/22	1	Externally located features, machining or gripping of external surfaces	
M	B23B2270/30	1	Chip guiding or removal	
M	B23B2270/38	1	Using magnetic fields	
M	B23B2270/62	1	Use of suction	

DATE: AUGUST 1, 2024

PROJECT MP12187

SUBCLASS B23C - MILLING

Type*	Symbol	Indent Level Number of dots (e.g. 0, 1, 2)	Title “CPC only” text should normally be enclosed in {curly brackets}**	Transferred to[#]
M	B23C2200/081	2	with projections	
M	B23C2200/168	2	with features related to indexing	
M	B23C2200/323	2	by chip-breaking projections	
M	B23C2210/16	1	Fixation of inserts or cutting bits in the tool	
M	B23C2210/24	1	Overall form of the milling cutter	
M	B23C2220/28	1	Finishing	
M	B23C2222/32	1	Details of high-speed steel	
M	B23C2222/84	1	Steel	
M	B23C2230/00	0	Details of chip evacuation	
M	B23C2240/00	0	Details of connections of tools or workpieces	
M	B23C2250/04	1	Balancing the cutter	
M	B23C2250/16	1	Damping vibrations	
M	B23C2270/04	1	Use of centrifugal force	

SUBCLASS B23K - SOLDERING OR UNSOLDERING; WELDING; CLADDING OR PLATING BY SOLDERING OR WELDING; CUTTING BY APPLYING HEAT LOCALLY, e.g. FLAME CUTTING; WORKING BY LASER BEAM

Type*	Symbol	Indent Level Number of dots (e.g. 0, 1, 2)	Title “CPC only” text should normally be enclosed in {curly brackets}**	Transferred to[#]
M	B23K2103/56	2	{semiconducting}	

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

Type*	Symbol	Indent Level Number of dots (e.g. 0, 1, 2)	Title “CPC only” text should normally be enclosed in {curly brackets}**	Transferred to[#]
M	B29C2045/1485 2	2	{incorporating articles with a data carrier, e.g. chips}	

CPC NOTICE OF CHANGES 1652

DATE: AUGUST 1, 2024

PROJECT MP12187

M	B29C2045/1794	4	{by a rotor or directly coupled electric motor, e.g. using a tubular shaft motor}	
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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</u> <u>Number of</u> <u>dots (e.g. 0,</u> <u>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	B32B2262/0253	2	Polyolefin fibres	
M	B32B2266/025	3	Polyolefin	
M	B32B2274/00	0	Thermoplastic elastomer material	
M	B32B2307/308	2	Heat stability	
M	B32B2307/40	1	having particular optical properties	
M	B32B2317/22	1	Natural rubber	
M	B32B2319/00	0	Synthetic rubber	
M	B32B2405/00	0	Adhesive articles, e.g. adhesive tapes	
M	B32B2413/00	0	Belts	
M	B32B2419/00	0	Buildings or parts thereof	
M	B32B2419/04	1	Tiles for floors or walls	
M	B32B2432/00	0	Cleaning articles, e.g. mops or wipes	
M	B32B2437/00	0	Clothing	
M	B32B2439/00	0	Containers; Receptacles	
M	B32B2451/00	0	Decorative or ornamental articles	
M	B32B2479/00	0	Furniture	
M	B32B2535/00	0	Medical equipment, e.g. bandage, prostheses or catheter	
M	B32B2571/02	1	defensive, e.g. armour plates or anti-ballistic clothing	
M	B32B2605/18	1	Aircraft	

SUBCLASS B60B - VEHICLE WHEELS; CASTORS; AXLES FOR WHEELS OR CASTORS; INCREASING WHEEL ADHESION

<u>Type*</u>	<u>Symbol</u>	<u>Indent Level</u> <u>Number of</u> <u>dots (e.g. 0,</u> <u>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	B60B2200/00	0	Type of product being used or applied	
M	B60B2900/521	2	Tire mounting or removal	

DATE: AUGUST 1, 2024

PROJECT MP12187

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</u> <u>Number of</u> <u>dots (e.g. 0,</u> <u>1, 2)</u>	<u>Title</u> “CPC only” text should normally be enclosed in {curly brackets}**	<u>Transferred to[#]</u>
M	B60K2015/0311 8	2	{Multiple tanks, i.e. two or more separate tanks}	
M	B60K2015/0319	2	{with electronic systems, e.g. for controlling fuelling or venting}	
M	B60K2015/0354 2	3	{Mounting of the venting means}	
M	B60K2015/0515	4	{Arrangements for closing or opening of inlet cover}	
M	B60K2015/0772	3	{Floats in the fuel tank}	

SUBCLASS B60R - VEHICLES, VEHICLE FITTINGS, OR VEHICLE PARTS, NOT OTHERWISE PROVIDED FOR

<u>Type*</u>	<u>Symbol</u>	<u>Indent Level</u> <u>Number of</u> <u>dots (e.g. 0,</u> <u>1, 2)</u>	<u>Title</u> “CPC only” text should normally be enclosed in {curly brackets}**	<u>Transferred to[#]</u>
M	B60R2019/1886	3	{Bumper fascias and fastening means therefor}	
M	B60R2021/01184	3	{Fault detection or diagnostic circuits}	
M	B60R2021/23519	6	{Resin}	
M	B60R2021/23523	6	{Composite}	
M	B60R2022/4473	3	{using an electric retraction device}	

SUBCLASS B60T - VEHICLE BRAKE CONTROL SYSTEMS OR PARTS THEREOF; BRAKE CONTROL SYSTEMS OR PARTS THEREOF, IN GENERAL; ARRANGEMENT OF BRAKING ELEMENTS ON VEHICLES IN GENERAL; PORTABLE DEVICES FOR PREVENTING UNWANTED MOVEMENT OF VEHICLES; VEHICLE MODIFICATIONS TO FACILITATE COOLING OF BRAKES

<u>Type*</u>	<u>Symbol</u>	<u>Indent Level</u> <u>Number of</u>	<u>Title</u> “CPC only” text should normally be enclosed in {curly brackets}**	<u>Transferred to[#]</u>
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CPC NOTICE OF CHANGES 1652

DATE: AUGUST 1, 2024

PROJECT MP12187

		<u>dots (e.g. 0, 1, 2)</u>		
M	B60T2240/02	1	Longitudinal grip	

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</u> <u>Number of</u> <u>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	B65D2401/20	2	Frangible elements completely enclosed in closure skirt	
M	B65D2501/24936	4	Means for handling	
M	B65D2543/00	0	Lids or covers essentially for box-like containers	
M	B65D2543/00074	4	curved	
M	B65D2543/00194	6	square or rectangular	
M	B65D2571/00129	2	Wrapper locking means	

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

<u>Type*</u>	<u>Symbol</u>	<u>Indent Level</u> <u>Number of</u> <u>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	B65H2301/4175	5	involving cart	
M	B65H2301/42262	5	by acting on surface of outermost articles of the pile, e.g. in nip between pair of belts or rollers	
M	B65H2301/44331	5	at particular portion of handled material	
M	B65H2551/14	2	Switches; Selectors	
M	B65H2557/11	2	wireless	
M	B65H2701/174	3	Textile; fibres	
M	B65H2701/192	3	Labels	

*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

CPC NOTICE OF CHANGES 1652

DATE: AUGUST 1, 2024

PROJECT MP12187

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.

DATE: AUGUST 1, 2024

PROJECT MP12187

2. A. DEFINITIONS (new)

B01D 2201/34

References

Informative references

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

Seals or gaskets for removable closures, lids, caps or filter heads	B01D 2201/304
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B01D 2239/065

References

Informative references

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

Multiple layers of filters specially adapted for separating dispersed particles from gases or vapours	B01D 2275/10
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B01D 2239/0695

References

Informative references

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

Multiple wound layers of filters specially adapted for separating dispersed particles from gases or vapours	B01D 2275/105
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DATE: AUGUST 1, 2024

PROJECT MP12187

B01D 2239/1208

References

Informative references

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

Porosity of filtering material specially adapted for separating dispersed particles from gases or vapours	B01D 2275/30
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B01D 2251/108

References

Informative references

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

Reactants being inorganic acids	B01D 2251/50
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B01D 2252/10

References

Informative references

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

Chemical reactants	B01D 2251/00
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DATE: AUGUST 1, 2024

PROJECT MP12187

B01D 2255/20

References

Informative references

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

Catalysts being noble metals or compounds thereof	B01D 2255/10
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B01D 2259/455

References

Informative references

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

Gas separation or purification devices for portable use, e.g. gas masks	B01D 2259/4541
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B01J 2220/64

References

Informative references

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

Use of sorbent or filter aid materials in a single column	B01J 2220/58
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DATE: AUGUST 1, 2024

PROJECT MP12187

B01J 2229/34**References****Informative references**

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

Reaction of molecular sieve catalysts with silicon compounds, e.g. TEOS or silicon fluoride	B01J 2229/32
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B01J 2231/14**References****Informative references**

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

Metathesis reactions, e.g. olefin metathesis	B01J 2231/54
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B01J 2231/76**References****Informative references**

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

C-H or C-C activation	B01J 2231/46
Hydrogenation of organic substrates, i.e. H ₂ or H-transfer hydrogenations, e.g. Fischer-Tropsch processes	B01J 2231/641

DATE: AUGUST 1, 2024

PROJECT MP12187

B01J 2531/028

References

Informative references

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

Ligands adapted to form modular catalysts, e.g. self-associating building blocks	B01J 2531/0291
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B23B 2200/081

References

Informative references

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

Cutting inserts by chip breaking projections	B23B 2200/321
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B23B 2200/087

References

Informative references

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

Cutting inserts by chip breaking depressions	B23B 2200/323
Cutting inserts by multiple chip-breaking grooves	B23B 2200/325

DATE: AUGUST 1, 2024

PROJECT MP12187

B23B 2200/321

References

Informative references

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

Projections on rake or top surfaces	B23B 2200/081
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B23B 2200/323

References

Informative references

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

Rake or top surfaces for chip breaking	B23B 2200/087
Cutting inserts by multiple chip-breaking grooves	B23B 2200/325

B23B 2200/325

References

Informative references

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

Rake or top surfaces for chip breaking	B23B 2200/087
Cutting inserts by chip breaking depressions	B23B 2200/323

DATE: AUGUST 1, 2024

PROJECT MP12187

B23B 2200/3627**References****Informative references**

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

Milling cutting inserts with one or more grooves on bottom surfaces	B23C 2200/165
Cutting inserts with polygonal bottom surfaces	B23B 2200/166
Milling cutting inserts with star form bottom surfaces	B23C 2200/167

B23B 2200/3654**References****Informative references**

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

Lands having negative cutting angles with variable width	B23B 2200/3672
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B23B 2200/3663**References****Informative references**

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

Cross section of the bevelled or chamfered cutting edge	B23C 2200/243
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DATE: AUGUST 1, 2024

PROJECT MP12187

B23B 2200/3672

References

Informative references

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

Lands being of variable width	B23B 2200/3654
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B23B 2210/12

References

Informative references

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

Shanks of tools having a reduced cross section at a position where breakage of the tool is preferred	B23B 2231/0212
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B23B 2220/24

References

Informative references

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

Roughing and finishing	B23B 2220/445
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DATE: AUGUST 1, 2024

PROJECT MP12187

B23B 2222/14

References

Informative references

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

Materials of tools or workpieces composed of iron	B23B 2222/44
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B23B 2222/32

References

Informative references

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

Materials of tools or workpieces composed of stainless steel	B23B 2222/80
Materials of tools or workpieces composed of steel	B23B 2222/84

B23B 2222/44

References

Informative references

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

Materials of tools or workpieces composed of cast iron	B23B 2222/14
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DATE: AUGUST 1, 2024

PROJECT MP12187

B23B 2222/80**References****Informative references**

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

Materials of tools or workpieces composed of high-speed steel	B23B 2222/32
Materials of tools or workpieces composed of steel	B23B 2222/84

B23B 2222/84**References****Informative references**

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

Materials of tools or workpieces composed of high-speed steel	B23B 2222/32
Materials of tools or workpieces composed of stainless steel	B23B 2222/80

B23B 2231/0212**References****Informative references**

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

Tools comprising weakened spot on the tool at a preferred breakage location	B23B 2210/12
Shanks having a section of reduced diameter	B23B 2231/0252

DATE: AUGUST 1, 2024

PROJECT MP12187

B23B 2231/0252

References

Informative references

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

Shanks of tools having a reduced cross section at a position where breakage of the tool is preferred	B23B 2231/0212
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B23B 2231/026

References

Informative references

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

Keyways	B23B 2231/0276
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B23B 2231/0276

References

Informative references

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

Axial grooves	B23B 2231/0264
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DATE: AUGUST 1, 2024

PROJECT MP12187

B23B 2231/2013

References

Informative references

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

Polygonal operating surfaces of collets	B23B 2231/2016
---	--------------------------------

B23B 2231/28

References

Informative references

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

Nose pieces in chucks	B23B 2231/44
Dust covers for turning, boring or drilling	B23B 2260/058

B23B 2231/44

References

Informative references

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

Dust covers in chucks	B23B 2231/28
Dust covers for turning, boring or drilling	B23B 2260/058

DATE: AUGUST 1, 2024

PROJECT MP12187

B23B 2260/0482

References

Informative references

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

Constructional elements being stops	B23B 2260/12
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B23B 2260/0487

References

Informative references

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

Indication scales	B23B 2260/088
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B23B 2260/058

References

Informative references

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

Dust covers in chucks	B23B 2231/28
Nose pieces in chucks	B23B 2231/44

DATE: AUGUST 1, 2024

PROJECT MP12187

B23B 2260/12

References

Informative references

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

Depth controls of the cut, e.g. depth stops	B23B 2260/0482
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B23B 2260/132

References

Informative references

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

Cutting inserts with serrated bottom surfaces	B23B 2200/167
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B23B 2260/134

References

Informative references

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

Shims for cutting inserts in holders	B23B 2205/16
--------------------------------------	------------------------------

DATE: AUGUST 1, 2024

PROJECT MP12187

B23B 2270/04

References

Informative references

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

Compensation of centrifugal force during turning, boring or drilling	B23B 2250/08
--	------------------------------

B23B 2270/22

References

Informative references

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

Machining or gripping of both internal and external surfaces	B23B 2270/205
--	-------------------------------

B23B 2270/30

References

Informative references

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

Use of suction	B23B 2270/62
Drills with provision for suction	B23B 2251/68

DATE: AUGUST 1, 2024

PROJECT MP12187

B23B 2270/38

References

Informative references

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

Constructional elements being magnets	B23B 2260/10
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B23B 2270/62

References

Informative references

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

Suction pads or vacuum cups, e.g. for attachment of guides to workpieces	B23B 2260/118
Drills with provision for suction	B23B 2251/68
Chip guiding or removal	B23B 2270/30

B23C 2200/081

References

Informative references

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

Milling cutting inserts by chip breaking depressions	B23C 2200/323
--	-------------------------------

DATE: AUGUST 1, 2024

PROJECT MP12187

B23C 2200/168

References

Informative references

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

Lines for indexing round inserts	B23C 2200/363
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B23C 2200/323

References

Informative references

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

Projections on rake or top surfaces	B23C 2200/081
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B23C 2210/16

References

Informative references

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

Details of connections of tools or workpieces	B23C 2240/00
---	------------------------------

DATE: AUGUST 1, 2024

PROJECT MP12187

B23C 2210/24

References

Informative references

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

Details of milling cutters being angles	B23C 2210/04
Side or top views of the cutting edge	B23C 2210/08
Cross section of the cutting edge	B23C 2210/12

B23C 2220/28

References

Informative references

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

Roughing and finishing	B23C 2220/605
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B23C 2222/32

References

Informative references

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

Materials of tools or workpieces composed of steel	B23C 2222/84
---	------------------------------

DATE: AUGUST 1, 2024

PROJECT MP12187

B23C 2222/84

References

Informative references

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

Materials of tools or workpieces composed of high-speed steel	B23C 2222/32
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B23C 2230/00

References

Informative references

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

Chip breaking or chip evacuation	B23C 2200/32
----------------------------------	------------------------------

B23C 2240/00

References

Informative references

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

Fixation of inserts or cutting bits in the tool	B23C 2210/16
---	------------------------------

DATE: AUGUST 1, 2024

PROJECT MP12187

B23C 2250/04

References

Informative references

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

Damping vibrations during milling	B23C 2250/16
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B23C 2250/16

References

Informative references

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

Balancing the cutter during milling	B23C 2250/04
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B23C 2270/04

References

Informative references

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

Compensating adverse effects of centrifugal force during milling	B23C 2250/08
--	------------------------------

DATE: AUGUST 1, 2024

PROJECT MP12187

B23K 2103/56

References

Informative references

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

Semiconductor devices made by soldering, welding or cutting	B23K 2101/40
---	------------------------------

B29C 2045/14852

References

Informative references

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

Memory cards or chip cards	B29L 2017/006
----------------------------	-------------------------------

B29C 2045/1794

References

Informative references

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

Axially movable screws rotated by the coaxial rotor of an electric motor	B29C 2045/5024
--	--------------------------------

DATE: AUGUST 1, 2024

PROJECT MP12187

B32B 2262/0253**References****Informative references**

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

Vinyl resin fibres forming fibrous or filamentary layer or present as additives	B32B 2262/0223
Acrylic resin fibres forming fibrous or filamentary layer or present as additives	B32B 2262/0246

B32B 2266/025**References****Informative references**

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

Foam composed of vinyl resin	B32B 2266/0221
Foam composed of acrylic resin	B32B 2266/0242

B32B 2274/00**References****Informative references**

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

Thermoplastic elastomer fibres forming fibrous or filamentary layer or present as additives	B32B 2262/0215
Thermoplastic elastomer particles forming particulate layer or present as additives	B32B 2264/0221
Thermoplastic elastomer composing a foam	B32B 2266/0292

DATE: AUGUST 1, 2024

PROJECT MP12187

B32B 2307/308

References

Informative references

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

Dimensional stability of the layers or laminate	B32B 2307/734
---	-------------------------------

B32B 2307/40

References

Informative references

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

Layers or laminate resistive to light or UV	B32B 2307/71
---	------------------------------

B32B 2317/22

References

Informative references

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

Synthetic rubber used for the layers, laminate or apparatus components	B32B 2319/00
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DATE: AUGUST 1, 2024

PROJECT MP12187

B32B 2319/00

References

Informative references

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

Natural rubber used for the layers, laminate or apparatus components	B32B 2317/22
--	------------------------------

B32B 2405/00

References

Informative references

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

Labels or badges	B32B 2519/00
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B32B 2413/00

References

Informative references

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

Conveyor belts	B32B 2433/02
Driving belts	B32B 2433/04

DATE: AUGUST 1, 2024

PROJECT MP12187

B32B 2419/00

References

Informative references

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

Walls or panels	B32B 2607/00
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B32B 2419/04

References

Informative references

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

Roofs or roof membranes	B32B 2419/06
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B32B 2432/00

References

Informative references

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

Personal care	B32B 2555/00
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DATE: AUGUST 1, 2024

PROJECT MP12187

B32B 2437/00

References

Informative references

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

Defensive protective equipment, e.g. armour plates or anti-ballistic clothing	B32B 2571/02
---	------------------------------

B32B 2439/00

References

Informative references

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

Closures, end caps or stoppers	B32B 2435/00
--------------------------------	------------------------------

B32B 2451/00

References

Informative references

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

Wall papers or wall coverings	B32B 2607/02
-------------------------------	------------------------------

DATE: AUGUST 1, 2024

PROJECT MP12187

B32B 2479/00

References

Informative references

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

Upholstery	B32B 2601/00
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B32B 2535/00

References

Informative references

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

Patches, e.g. medical patches or repair patches	B32B 2556/00
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B32B 2571/02

References

Informative references

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

Nets, e.g. camouflage nets	B32B 2459/00
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DATE: AUGUST 1, 2024

PROJECT MP12187

B32B 2605/18

References

Informative references

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

Vanes, blades, propellers or rotors with blades	B32B 2603/00
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B60B 2200/00

References

Informative references

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

Type of vehicle	B60Y 2200/00
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B60B 2900/521

References

Informative references

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

Wheel mounting or removal devices	B60B 2340/50
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DATE: AUGUST 1, 2024

PROJECT MP12187

B60K 2015/03118

References

Informative references

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

Supplementary interior tanks inside the fuel tank	B60K 2015/03105
---	---------------------------------

B60K 2015/0319

References

Informative references

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

Control systems for LPG tanks	B60K 2015/03013
-------------------------------	---------------------------------

B60K 2015/03542

References

Informative references

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

Mounting of venting tubes	B60K 2015/03528
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DATE: AUGUST 1, 2024

PROJECT MP12187

B60K 2015/0515

References

Informative references

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

Locking means for the inlet cover	B60K 2015/0561
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B60K 2015/0772

References

Informative references

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

Float valves; Floats therefor	B60K 2015/03289
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B60R 2019/1886

References

Informative references

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

Fastening of bumpers' side ends	B60R 2019/247
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DATE: AUGUST 1, 2024

PROJECT MP12187

B60R 2021/01184

References

Informative references

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

Prevention of problems or faults	B60R 2021/01129
----------------------------------	---------------------------------

B60R 2021/23519

References

Informative references

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

Coated fabric of inflatable members	B60R 2021/23514
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B60R 2021/23523

References

Informative references

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

Coated fabric of inflatable members	B60R 2021/23514
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DATE: AUGUST 1, 2024

PROJECT MP12187

B60R 2022/4473

References

Informative references

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

Safety belt retractors with means for reducing belt tension, using one spring and one additional electric actuator device in parallel	B60R 2022/444
Safety belt retractors with means for reducing belt tension, using one spring and one additional electric actuator device in series	B60R 2022/4466

B60T 2240/02

References

Informative references

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

Detection or estimation of road conditions	B60T 2210/10
--	------------------------------

B65D 2501/24936

References

Informative references

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

Handles for boxes or like containers with moulded compartments or partitions	B65D 2501/24363
--	---------------------------------

DATE: AUGUST 1, 2024

PROJECT MP12187

B65D 2543/00

References

Informative references

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

Details relating to container closures	B65D 2251/00
--	------------------------------

B65D 2543/00194

References

Informative references

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

Square-like or rectangular-like shape of the outer periphery of lids or covers for box-like containers	B65D 2543/00101
--	---------------------------------

B65D 2571/00129

References

Informative references

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

Tubular bundling wrappers or trays with end walls, e.g. walls not extending on the whole end surface	B65D 2571/00722
--	---------------------------------

DATE: AUGUST 1, 2024

PROJECT MP12187

B65H 2301/4175

References

Informative references

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

Trolley, cart, i.e. support movable on floor	B65H 2405/422
--	-------------------------------

B65H 2301/42262

References

Informative references

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

Gripping piles, sets or stacks of articles	B65H 2301/4224
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B65H2301/44331

References

Informative references

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

Parts concerned of the handled material	B65H 2701/13
---	------------------------------

DATE: AUGUST 1, 2024

PROJECT MP12187

B65H2551/14

References

Informative references

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

Contact switches	B65H 2553/25
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B65H 2557/11

References

Informative references

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

Remote control devices, e.g. speech recognition	B65H 2551/13
---	------------------------------

B65H 2701/174

References

Informative references

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

Textiles, threads or artificial strands of filaments	B65H 2701/31
--	------------------------------

CPC NOTICE OF CHANGES 1652

DATE: AUGUST 1, 2024

PROJECT MP12187

B65H 2701/192

References

Informative references

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

Web supporting regularly spaced adhesive articles, e.g. rubber articles, labels or stamps	B65H 2701/194
--	-------------------------------

DATE: AUGUST 1, 2024

PROJECT MP12187

2. A. DEFINITIONS (modified)

B65D 2401/20

References

Delete: The entire Limiting references section.

Insert: The following new reference in the Informative references table.

Informative references

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

Non-metallic tear-off strips	B65D 2401/25
------------------------------	------------------------------

B65D 2543/00074

Insert: The following new Informative references section.

References

Informative references

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

Shape of the outer periphery having straight sides, e.g. with curved corners	B65D 2543/0012
--	--------------------------------