

EUROPEAN PATENT OFFICE
U.S. PATENT AND TRADEMARK OFFICE

CPC NOTICE OF CHANGES 1588

DATE: JANUARY 1, 2024

PROJECT RP12086

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

<u>Action</u>	<u>Subclass</u>	<u>Group(s)</u>
SCHEME:		
Symbols Deleted:	B01J	35/0006, 35/0013, 35/002, 35/0026, 35/0033, 35/004, 35/0046, 35/0053, 35/006, 35/0066, 35/0073, 35/008, 35/0086, 35/0093, 35/02, 35/023, 35/026, 35/04, 35/06, 35/065, 35/08, 35/10, 35/1004, 35/1009, 35/1014, 35/1019, 35/1023, 35/1028, 35/1033, 35/1038, 35/1042, 35/1047, 35/1052, 35/1057, 35/1061, 35/1066, 35/1071, 35/1076, 35/108, 35/1085, 35/109, 35/1095, 35/12
Symbols New:	B01J	35/19, 35/20, 35/23, 35/27, 35/30, 35/31, 35/32, 35/33, 35/34, 35/36, 35/37, 35/38, 35/39, 35/391, 35/392, 35/393, 35/394, 35/395, 35/396, 35/397, 35/398, 35/399, 35/40, 35/45, 35/50, 35/505, 35/51, 35/52, 35/53, 35/54, 35/55, 35/56, 35/57, 35/58, 35/59, 35/60, 35/61, 35/612, 35/613, 35/615, 35/617, 35/618, 35/63, 35/633, 35/635, 35/638, 35/64, 35/643, 35/647, 35/651, 35/653, 35/657, 35/66, 35/67, 35/69, 35/695, 35/70, 35/73, 35/733, 35/735, 35/737, 35/77, 35/80
	B01J	2235/00, 2235/05, 2235/10, 2235/15, 2235/30
Warnings New:	B01J	21/18
	B01J	29/00
	B01J	35/00, 35/20, 35/23, 35/30, 35/31, 35/32, 35/34, 35/393, 35/395, 35/40, 35/45, 35/50, 35/505, 35/51, 35/52, 35/53, 35/54, 35/55, 35/56, 35/57, 35/70, 35/73, 35/733, 35/735, 35/737, 35/77, 35/80
	B01J	2235/00
DEFINITIONS:		
Definitions Deleted: (no frozen (F) symbol definitions should be deleted)	B01J	35/0013, 35/004, 35/04, 35/10
Definitions New:	B01J	35/19, 35/20, 35/23, 35/27, 35/30, 35/33, 35/36, 35/37, 35/38, 35/39, 35/393, 35/395, 35/396, 35/397, 35/398, 35/45, 35/50, 35/505, 35/53, 35/56, 35/57, 35/66, 35/70, 35/73, 35/733, 35/735, 35/737, 35/77

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Definitions Modified:	B01J	35/00
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The following subclasses/groups are also impacted by this Notice of Changes (indicate subclasses/groups outside of the project scope, such as those listed in the CRL):

A61L, B01D, C04B, C25B, C40B

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)

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1. CLASSIFICATION SCHEME CHANGES

A. New, Modified or Deleted Group(s)**SUBCLASS B01J - CHEMICAL OR PHYSICAL PROCESSES, e.g. CATALYSIS OR COLLOID CHEMISTRY; THEIR RELEVANT APPARATUS**

<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>
C	B01J35/00	0	Catalysts, in general, characterised by their form or physical properties	B01J35/00, B01J21/18, B01J29/00, B01J35/20, B01J35/70, B01J35/73, B01J35/733, B01J35/735, B01J35/737, B01J35/77, B01J35/80, B01J2235/00, B01J2235/05, B01J2235/10, B01J2235/15, B01J2235/30
D	B01J35/0006	1	{Catalysts containing parts with different compositions}	<administrative transfer to B01J35/19>
D	B01J35/0013	1	{Colloids}	<administrative transfer to B01J35/23>
D	B01J35/002	1	{Catalysts characterised by their physical properties}	<administrative transfer to B01J35/30>
D	B01J35/0026	2	{Density}	<administrative transfer to B01J35/31>
D	B01J35/0033	2	{Electric or magnetic properties}	<administrative transfer to B01J35/33>
D	B01J35/004	2	{Photocatalysts}	<administrative transfer to B01J35/39>
D	B01J35/0046	2	{Physical properties of the active metal ingredient}	<administrative transfer to B01J35/391>
D	B01J35/0053	3	{metal surface area}	<administrative transfer to B01J35/392>
D	B01J35/006	3	{metal crystallite size}	<administrative transfer to B01J35/393>
D	B01J35/0066	3	{metal dispersion value, e.g. percentage or fraction}	<administrative transfer to B01J35/394>
D	B01J35/0073	2	{Distribution of the active metal ingredient}	<administrative transfer to B01J35/396>
D	B01J35/008	3	{egg-shell like}	<administrative transfer to B01J35/397>
D	B01J35/0086	3	{egg-yolk like}	<administrative transfer to B01J35/398>
D	B01J35/0093	3	{homogeneous throughout the support particle}	<administrative transfer to B01J35/399>

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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#
D	B01J35/02	1	Solids	<administrative transfer to B01J35/00 and B01J35/30 simultaneously>
D	B01J35/023	2	{Catalysts characterised by dimensions, e.g. grain size}	<administrative transfer to B01J35/40>
D	B01J35/026	2	{Form of the solid particles (B01J35/08 takes precedence)}	<administrative transfer to B01J35/50>
D	B01J35/04	2	Foraminous structures, sieves, grids, honeycombs	<administrative transfer to B01J35/56>
D	B01J35/06	2	Fabrics or filaments	<administrative transfer to B01J35/58>
D	B01J35/065	3	{Membranes}	<administrative transfer to B01J35/59>
D	B01J35/08	2	Spheres	<administrative transfer to B01J35/51>
D	B01J35/10	2	characterised by their surface properties or porosity	<administrative transfer to B01J35/60>
D	B01J35/1004	3	{Surface area}	<administrative transfer to B01J35/61>
D	B01J35/1009	4	{less than 10 m ² /g}	<administrative transfer to B01J35/612>
D	B01J35/1014	4	{10-100 m ² /g}	<administrative transfer to B01J35/613>
D	B01J35/1019	4	{100-500 m ² /g}	<administrative transfer to B01J35/615>
D	B01J35/1023	4	{500-1000 m ² /g}	<administrative transfer to B01J35/617>
D	B01J35/1028	4	{more than 1000 m ² /g}	<administrative transfer to B01J35/618>
D	B01J35/1033	3	{Pore volume}	<administrative transfer to B01J35/63>
D	B01J35/1038	4	{less than 0.5 ml/g}	<administrative transfer to B01J35/633>
D	B01J35/1042	4	{0.5-1.0 ml/g}	<administrative transfer to B01J35/635>
D	B01J35/1047	4	{more than 1.0 ml/g}	<administrative transfer to B01J35/638>
D	B01J35/1052	3	{Pore diameter}	<administrative transfer to B01J35/64>
D	B01J35/1057	4	{less than 2 nm}	<administrative transfer to B01J35/643>
D	B01J35/1061	4	{2-50 nm}	<administrative transfer to B01J35/647>
D	B01J35/1066	4	{50-500 nm}	<administrative transfer to B01J35/651>

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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#
D	B01J35/1071	4	{500-1000nm}	<administrative transfer to B01J35/653>
D	B01J35/1076	4	{larger than 1000nm}	<administrative transfer to B01J35/657>
D	B01J35/108	3	{Pore distribution}	<administrative transfer to B01J35/66>
D	B01J35/1085	4	{monomodal}	<administrative transfer to B01J35/67>
D	B01J35/109	4	{bimodal}	<administrative transfer to B01J35/69>
D	B01J35/1095	4	{polymodal}	<administrative transfer to B01J35/695>
D	B01J35/12	1	Liquids or melts	<administrative transfer to B01J35/27>
N	B01J35/19	1	{Catalysts containing parts with different compositions}	
N	B01J35/20	1	characterised by their non-solid state	
Q	B01J35/23	2	in a colloidal state	B01J35/23, B01J35/45
N	B01J35/27	2	in a liquid or molten state	
Q	B01J35/30	1	characterised by their physical properties	B01J35/30, B01J35/34, B01J35/36, B01J35/37, B01J35/38, B01J35/395, B01J35/70, B01J35/73, B01J35/733, B01J35/735, B01J35/737, B01J35/77, B01J35/80, B01J2235/00, B01J2235/05, B01J2235/10, B01J2235/15, B01J2235/30
Q	B01J35/31	2	Density	B01J35/31, B01J35/32, B01J35/70, B01J35/73, B01J35/733, B01J35/735, B01J35/737, B01J35/77, B01J35/80, B01J2235/00, B01J2235/05, B01J2235/10, B01J2235/15, B01J2235/30
N	B01J35/32	3	Bulk density	
N	B01J35/33	2	Electric or magnetic properties	
N	B01J35/34	2	Mechanical properties	
N	B01J35/36	3	Mechanical strength	
N	B01J35/37	3	Crush or impact strength	
N	B01J35/38	3	Abrasion or attrition resistance	
N	B01J35/39	2	Photocatalytic properties	
N	B01J35/391	2	{Physical properties of the active metal ingredient}	
N	B01J35/392	3	{Metal surface area}	

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<u>Type*</u>	<u>Symbol</u>	<u>Indent Level Number of dots (e.g. 0, 1, 2)</u>	<u>Title</u> <u>“CPC only” text should normally be enclosed in {curly brackets}**</u>	<u>Transferred to#</u>
Q	B01J35/393	3	{Metal or metal oxide crystallite size}	B01J35/393, B01J35/73, B01J35/733, B01J35/735, B01J35/737, B01J2235/00, B01J2235/05, B01J2235/10, B01J2235/15, B01J2235/30
N	B01J35/394	3	{Metal dispersion value, e.g. percentage or fraction}	
N	B01J35/395	3	{Thickness of the active catalytic layer}	
N	B01J35/396	2	{Distribution of the active metal ingredient}	
N	B01J35/397	3	{Egg shell like}	
N	B01J35/398	3	{Egg yolk like}	
N	B01J35/399	3	{homogeneously throughout the support particle}	
Q	B01J35/40	1	characterised by dimensions, e.g. grain size (in a colloidal state B01J35/23; crystallite size B01J35/77)	B01J35/40, B01J35/45, B01J35/77
N	B01J35/45	2	Nanoparticles	
Q	B01J35/50	1	characterised by their shape or configuration	B01J35/34, B01J35/36, B01J35/37, B01J35/38, B01J35/50, B01J35/505, B01J35/54, B01J35/55, B01J2235/00, B01J2235/05, B01J2235/10, B01J2235/15, B01J2235/30
N	B01J35/505	2	{with a non-spherical or unspecified core-shell structure}	
Q	B01J35/51	2	Spheres	B01J35/51, B01J35/52, B01J35/53
N	B01J35/52	3	Hollow spheres	
N	B01J35/53	3	with a core-shell structure	
N	B01J35/54	2	Bars or plates	
N	B01J35/55	2	Cylinders or rings	
Q	B01J35/56	2	Foraminous structures having flow-through passages or channels, e.g. grids or three-dimensional monoliths	B01J35/56, B01J35/57
N	B01J35/57	3	Honeycombs	
N	B01J35/58	2	Fabrics or filaments	
N	B01J35/59	3	Membranes	
N	B01J35/60	1	characterised by their surface properties or porosity	
N	B01J35/61	2	Surface area	
N	B01J35/612	3	{less than 10m ² /g}	
N	B01J35/613	3	{10-100 m ² /g}	
N	B01J35/615	3	{100-500 m ² /g}	

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<u>Type*</u>	<u>Symbol</u>	<u>Indent Level Number of dots (e.g. 0, 1, 2)</u>	<u>Title</u> <u>“CPC only” text should normally be enclosed in {curly brackets}**</u>	<u>Transferred to#</u>
N	B01J35/617	3	{500-1000 m ² /g}	
N	B01J35/618	3	{more than 1000 m ² /g}	
N	B01J35/63	2	Pore volume	
N	B01J35/633	3	{less than 0.5 ml/g}	
N	B01J35/635	3	{0.5-1.0 ml/g}	
N	B01J35/638	3	{more than 1.0 ml/g}	
N	B01J35/64	2	Pore diameter	
N	B01J35/643	3	{less than 2 nm}	
N	B01J35/647	3	{2-50 nm}	
N	B01J35/651	3	{50-500 nm}	
N	B01J35/653	3	{500-1000 nm}	
N	B01J35/657	3	{larger than 1000 nm}	
N	B01J35/66	2	Pore distribution	
N	B01J35/67	3	monomodal	
N	B01J35/69	3	bimodal	
N	B01J35/695	3	{polymodal}	
N	B01J35/70	1	characterised by their crystalline properties, e.g. semi-crystalline (catalysts comprising carbon B01J 21/18; molecular sieves B01J 29/00)	
N	B01J35/73	2	having a two-dimensional layered crystalline structure, e.g. layered double hydroxide [LDH]	
N	B01J35/733	2	{Perovskite-type}	
N	B01J35/735	2	{Pyrochlore-type A ₂ B ₂ O ₇ }	
N	B01J35/737	2	{Hexaaluminate-type AB ₁₂ O ₁₉ }	
N	B01J35/77	2	Compounds characterised by their crystallite size	
N	B01J35/80	1	characterised by their amorphous structures	
U	B01J 2231/766	3	of -CH-CH- or -C=C- to -C=C- or -C-C- triple bond species	
N	B01J2235/00	0	Indexing scheme associated with group B01J 35/00, related to the analysis techniques used to determine the catalysts form or properties	
N	B01J2235/05	1	Nuclear magnetic resonance [NMR]	
N	B01J2235/10	1	Infrared [IR]	
N	B01J2235/15	1	X-ray diffraction	
N	B01J2235/30	1	Scanning electron microscopy; Transmission electron microscopy	

*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

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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 finalisation 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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B. New, Modified or Deleted Warning(s)**SUBCLASS B01J - CHEMICAL OR PHYSICAL PROCESSES, e.g. CATALYSIS OR COLLOID CHEMISTRY; THEIR RELEVANT APPARATUS**

<u>Type*</u>	<u>Location</u>	<u>Old Warning</u>	<u>New/Modified Warning</u>
N	B01J 21/18		Group B01J 21/18 is incomplete pending reclassification of documents from group B01J 35/00. Groups B01J 35/00 and B01J 21/18 should be considered in order to perform a complete search.
N	B01J 29/00		Group B01J 29/00 is incomplete pending reclassification of documents from group B01J 35/00. Groups B01J 35/00 and B01J 29/00 should be considered in order to perform a complete search.
N	B01J 35/00		Group B01J 35/00 is impacted by reclassification into groups B01J 35/20, B01J 35/70-B01J 35/77, B01J 35/80 and B01J 2235/00-B01J 2235/30. All groups listed in this Warning should be considered in order to perform a complete search.
N	B01J 35/20		Group B01J 35/20 is incomplete pending reclassification of documents from group B01J 35/00. Groups B01J 35/00 and B01J 35/20 should be considered in order to perform a complete search.
N	B01J 35/23		Group B01J 35/23 is impacted by reclassification into group B01J 35/45. Groups B01J 35/23 and B01J 35/45 should be considered in order to perform a complete search.
N	B01J 35/30		Group B01J 35/30 is impacted by reclassification into groups B01J 35/34-B01J 35/38, B01J 35/395, B01J 35/70-B01J 35/77, B01J 35/80 and B01J 2235/00-B01J 2235/30. All groups listed in this Warning should be considered in order to perform a complete search.
N	B01J 35/31		Group B01J 35/31 is impacted by reclassification into groups B01J 35/32, B01J 35/70-B01J 35/77, B01J 35/80 and B01J 2235/00-B01J 2235/30. All groups listed in this Warning should be considered in order to perform a complete search.

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<u>Type*</u>	<u>Location</u>	<u>Old Warning</u>	<u>New/Modified Warning</u>
N	B01J 35/32		Group B01J 35/32 is incomplete pending reclassification of documents from group B01J 35/31. Groups B01J 35/31 and B01J 35/32 should be considered in order to perform a complete search.
N	B01J 35/34		Groups B01J 35/34-B01J 35/38 are incomplete pending reclassification of documents from groups B01J 35/30 and B01J 35/50. All groups listed in this Warning should be considered in order to perform a complete search.
N	B01J 35/393		Group B01J 35/393 is impacted by reclassification into groups B01J 35/73, B01J 35/733, B01J 35/735, B01J 35/737 and B01J 2235/00-B01J 2235/30. All groups listed in this Warning should be considered in order to perform a complete search.
N	B01J 35/395		Group B01J 35/395 is incomplete pending reclassification of documents from group B01J 35/30. Groups B01J 35/30 and B01J 35/395 should be considered in order to perform a complete search.
N	B01J 35/40		Group B01J 35/40 is impacted by reclassification into groups B01J 35/45 and B01J 35/77. Groups B01J 35/40, B01J 35/45 and B01J 35/77 should be considered in order to perform a complete search.
N	B01J 35/45		Group B01J 35/45 is incomplete pending reclassification of documents from groups B01J 35/23 and B01J 35/40. Groups B01J 35/23, B01J 35/40 and B01J 35/45 should be considered in order to perform a complete search.
N	B01J 35/50		Group B01J 35/50 is impacted by reclassification into groups B01J 35/34-B01J 35/38, B01J 35/505, B01J 35/54, B01J 35/55 and B01J 2235/00-B01J 2235/30. All groups listed in this Warning should be considered in order to perform a complete search.
N	B01J 35/505		Group B01J 35/505 is incomplete pending reclassification of documents from group B01J 35/50. Groups B01J 35/50 and B01J 35/505 should

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<u>Type*</u>	<u>Location</u>	<u>Old Warning</u>	<u>New/Modified Warning</u>
			be considered in order to perform a complete search.
N	B01J 35/51		Group B01J 35/51 is impacted by reclassification into groups B01J 35/52 and B01J 35/53. Groups B01J 35/51, B01J 35/52 and B01J 35/53 should be considered in order to perform a complete search.
N	B01J 35/52		Group B01J 35/52 is incomplete pending reclassification of documents from group B01J 35/51. Groups B01J 35/51 and B01J 35/52 should be considered in order to perform a complete search.
N	B01J 35/53		Group B01J 35/53 is incomplete pending reclassification of documents from group B01J 35/51. Groups B01J 35/51 and B01J 35/53 should be considered in order to perform a complete search.
N	B01J 35/54		Group B01J 35/54 is incomplete pending reclassification of documents from group B01J 35/50. Groups B01J 35/50 and B01J 35/54 should be considered in order to perform a complete search.
N	B01J 35/55		Group B01J 35/55 is incomplete pending reclassification of documents from group B01J 35/50. Groups B01J 35/50 and B01J 35/55 should be considered in order to perform a complete search.
N	B01J 35/56		Group B01J 35/56 is impacted by reclassification into group B01J 35/57. Groups B01J 35/56 and B01J 35/57 should be considered in order to perform a complete search.
N	B01J 35/57		Group B01J 35/57 is incomplete pending reclassification of documents from group B01J 35/56. Groups B01J 35/56 and B01J 35/57 should be considered in order to perform a complete search.
N	B01J 35/70		Groups B01J 35/70 and B01J 35/77 are incomplete pending reclassification of documents from groups B01J 35/00, B01J 35/30 and B01J 35/31. All groups listed in this Warning should be considered in order to perform a complete search.

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<u>Type*</u>	<u>Location</u>	<u>Old Warning</u>	<u>New/Modified Warning</u>
N	B01J 35/73		Group B01J 35/73 is incomplete pending reclassification of documents from groups B01J 35/00, B01J 35/30, B01J 35/31 and B01J 35/393. All groups listed in this Warning should be considered in order to perform a complete search.
N	B01J 35/733		Group B01J 35/733 is incomplete pending reclassification of documents from groups B01J 35/00, B01J 35/30, B01J 35/31 and B01J 35/393. All groups listed in this Warning should be considered in order to perform a complete search.
N	B01J 35/735		Group B01J 35/735 is incomplete pending reclassification of documents from groups B01J 35/00, B01J 35/30, B01J 35/31 and B01J 35/393. All groups listed in this Warning should be considered in order to perform a complete search.
N	B01J 35/737		Group B01J 35/737 is incomplete pending reclassification of documents from groups B01J 35/00, B01J 35/30, B01J 35/31 and B01J 35/393. All groups listed in this Warning should be considered in order to perform a complete search.
N	B01J 35/77		Group B01J 35/77 is incomplete pending reclassification of documents from groups B01J 35/00, B01J 35/30, B01J 35/31 and B01J 35/40. All groups listed in this Warning should be considered in order to perform a complete search.
N	B01J 35/80		Group B01J 35/80 is incomplete pending reclassification of documents from groups B01J 35/00, B01J 35/30 and B01J 35/31. All groups listed in this Warning should be considered in order to perform a complete search.
N	B01J 2235/00		Groups B01J 2235/00, B01J 2235/05, B01J 2235/10, B01J 2235/15 and B01J 2235/30 are incomplete pending reclassification of documents from groups B01J 35/00, B01J 35/30, B01J 35/31, B01J 35/393 and B01J 35/50. All groups listed in this Warning should be considered in order to perform a complete search.

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*N = new warning, M = modified warning, D = deleted warning

NOTE: The "Location" column only requires the symbol PRIOR to the location of the warning. No further directions such as "before" or "after" are required.

2. A. DEFINITIONS (new)

B01J 35/19

Definition statement

This place covers:

Catalysts with properties derived from having portions with different compositions, e.g. bifunctional catalysts, layered catalysts, exhaust gas catalysts or catalysts having distinct regions where the catalyst is applied, e.g. rear end or front end.

Special rules of classification

Doped supports or doped catalysts are not considered as catalysts containing parts with different compositions and are classified under B01J21/00-B01J29/00.

Catalysts with the same active material but with varying support concentration, e.g. 1%Pd/99%Al₂O₃ in one region and 1%Pd/90%Al₂O₃-9%SiO₂ in another region within the catalyst, are classified in B01J35/19 as additional information.

B01J 35/20

Definition statement

This place covers:

Catalysts in a non-solid state, e.g. plasma catalysts.

B01J 35/23

Definition statement

This place covers:

- Particles homogeneously dispersed in another medium.
- A suspension of finely divided particles in a continuous medium from which the particles do not settle out rapidly and are not readily filtered.

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- An overall mixture consisting of two phases, a continuous phase (the dispersion medium) and a dispersed phase that can be solid, liquid or gas.

B01J 35/27

Definition statement

This place covers:

Molten or liquid catalysts, including ionic liquids.

B01J 35/30

Special rules of classification

- Documents disclosing catalysts with different compositions are classified in B01J 35/19.
- Chemical properties of the catalyst are classified in B01J 35/00.

B01J 35/33

Definition statement

This place covers:

Catalysts characterised by electric or magnetic properties, e.g. catalysts that can be used in electrodes or in electrochemical reactions or catalysts having conductivity properties.

Relationships with other classification places

Electrocatalysts only used in processes or means for the direct conversion of chemical energy into electrical energy are classified in H01M.

Electrocatalysts only used in electrolytic or electrophoretic processes for the production of compounds or non-metals and apparatus therefor are classified in C25B.

B01J 35/36

Definition statement

This place covers:

A catalyst's ability to resist an applied force.

B01J 35/37

Definition statement

This place covers:

A catalyst's ability to resist fracture or breakage when force or pressure is applied to the catalyst material in the axial direction or a catalyst's ability to resist the formation of fines, e.g. side or bulk crush strength.

B01J 35/38

Definition statement

This place covers:

A catalyst's ability to resist erosion caused by particle movement and collision between particles.

B01J 35/39

Definition statement

This place covers:

A catalyst's ability to change energy state when it absorbs light, achieves a higher energy level and initiates a reaction by providing the additional, absorbed energy to a reacting substance, e.g. catalysts with a band gap.

References

Informative references

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

Disinfection, sterilisation or deodorisation of air using a photocatalyst or photosensitiser	A61L 9/205
Treatment of water with photocatalysts	C02F 1/725
Glass coated with TiO ₂	C03C 17/256
Coating compositions	C09D 1/00, C09D 5/16

B01J 35/393

Definition statement

This place covers:

Active metal or metal oxide crystallite size, e.g. a metal oxide nanoparticle of 100 nm or less.

References

Informative references

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

Catalyst compounds characterised by their crystallite size	B01J 35/77
--	------------

Special rules of classification

Documents disclosing catalysts with an active metal or metal oxide catalyst crystallite size and having a catalyst size of 100 nm or less are classified in B01J35/393 and B01J35/45, e.g., a catalyst with a metal oxide crystallite size of 20 nm and a total particle size below 100 nm.

B01J 35/395

Definition statement

This place covers:

Thickness of the active catalyst layer if disclosed as a numerical value.

B01J 35/396

Definition statement

This place covers:

Varied concentrations of the active metal ingredient within the catalyst, e.g. within different layers.

B01J 35/397

Definition statement

This place covers:

A catalyst particle with a shell and with metal being distributed on the surface of the support/carrier in a configuration similar to that of an egg shell, though not necessarily in a spherical configuration.

B01J 35/398

Definition statement

This place covers:

A catalyst with metal being distributed inside the support/carrier in a configuration similar to that of an egg yolk, though not necessarily in a spherical configuration.

B01J 35/45

Definition statement

This place covers:

Catalysts comprising particles that have a controlled geometrical size below 100 nanometres (nm) in one or more dimensions and include nanofilaments, nanofibers, nanowires, nanorods or any nanostructures having a geometrical size below 100 nm.

Special rules of classification

- Documents disclosing catalysts with a nanostructure above 100 nm should be classified in B01J35/40.

- Documents disclosing catalysts having a size ranging from below 100 nm to above 100 nm should be double classified in B01J 35/40 and B01J 35/45.

B01J 35/50

Definition statement

This place covers:

Geometry or shape of a catalyst, e.g. trilobes.

B01J 35/505

Definition statement

This place covers:

Particles with a core (inner material) and a shell (outer layer material), wherein the core and shell are made of different materials, e.g. including non-metallic material and are of a non-spherical or unspecified shape.

Special rules of classification

Documents disclosing a non-spherical or an unspecified core-shell catalyst particle are classified in B01J 35/505.

Documents disclosing a non-spherical or an unspecified core-shell catalyst particle with an egg shell or egg yolk metal distribution are classified in B01J 35/505 and B01J 35/397 or B01J 35/398.

B01J 35/53

Definition statement

This place covers:

Particles with a core (inner material) and a shell (outer layer material), wherein the core and shell are made of different materials, e.g. including non-metallic material and are of a spherical shape.

Special rules of classification

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Documents disclosing a spherical core-shell catalyst particle with an egg shell or egg yolk metal distribution are classified in B01J 35/53 and B01J 35/397 or B01J 35/398.

B01J 35/56

Definition statement

This place covers:

Catalyst structures that have the form of grids, or three-dimensional monoliths.

References

Informative references

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

Wall flow filters	B01D 46/00
Exhaust gas treating with catalysts	B01D 53/00
Catalysts comprising molecular sieves	B01J 29/00
Honeycomb structures per se	C04B 38/0006
Mechanical aspects relating to exhaust gas treatment	F01N 3/00

B01J 35/57

Definition statement

This place covers:

- Material that has a honeycomb shape and inventive properties, and is impregnated, coated or deposited with catalytic material.
- Catalytic material impregnated, coated or deposited on a honeycomb shape with inventive properties.
- Catalyst being itself in a honeycomb form.

B01J 35/66

Definition statement

This place covers:

Pore size distributions such as ratios, e.g. ratio of mesopores/micropores.

B01J 35/70

Definition statement

This place covers:

A crystal or crystalline solid material whose constituents (such as atoms, molecules or ions) are arranged in a highly ordered microscopic structure, forming a crystal lattice that extends in all directions.

References

Limiting references

This place does not cover:

Catalysts comprising carbon	B01J 21/18
Molecular sieves	B01J 29/00

B01J35/73

Special rules of classification

Catalysts with a two-dimensional layered crystalline structure are classified in B01J 35/73, while compositional aspects are classified in B01J 27/236 for hydroxy carbonates and B01J23/007, for mixed salts, e.g. hydrotalcite.

B01J 35/733

Special rules of classification

Perovskite-type catalysts are doubly classified in B01J 35/733 for the structure and B01J 23/002, for the composition.

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B01J 35/735

Special rules of classification

Pyrochlore-type catalysts are doubly classified in B01J 35/735 for the structure and B01J 23/002, for the composition.

B01J 35/737

Special rules of classification

Hexaaluminate-type catalysts are doubly classified in B01J 35/737 for the structure and B01J 23/002, for the composition.

B01J 35/77

Definition statement

This place covers:

Catalysts comprising a crystallite compound for which a crystallite size is disclosed.

References

Informative references

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

Catalysts characterised by dimensions, e.g. grain size	B01J 35/40
--	------------

Special rules of classification

If particle size is disclosed but no mention of particle being a crystallite, subject matter is classified in groups for dimensions.

Crystallite size of metal or metal oxide in the catalyst is classified in B01J 35/393.

2. A. DEFINITIONS (modified)

B01J35/00

Definition statement

Replace: The existing Definition statement text with the updated text below.

Physical or chemical properties of a catalyst not covered by subgroups of B01J 35/30, e.g. Lewis or Brønsted acid sites.

Special rules of classification

Replace: The existing Special rules of classification text with the updated text below.

Detailed physical or chemical properties or characteristics of the support are classified as additional information in B01J35/00 subgroups.

When classifying in groups B01J35/00-B01J35/80, it is mandatory when appropriate to further classify in orthogonal groups B01J2235/00-B01J2235/30 for the analysis techniques used to determine a catalyst's form or properties.

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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
B01J35/0013			Delete entire definition
B01J35/004			Delete entire definition
B01J35/04			Delete entire definition
B01J35/10			Delete 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.

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3. REVISION CONCORDANCE LIST (RCL)

Type*	From CPC Symbol (existing)	To CPC Symbol(s)
C	B01J 35/00	B01J 35/00, B01J 21/18, B01J 29/00, B01J 35/20, B01J 35/70, B01J 35/73, B01J 35/733, B01J 35/735, B01J 35/737, B01J 35/77, B01J 35/80, B01J 2235/00, B01J 2235/05, B01J 2235/10, B01J 2235/15, B01J 2235/30
D	B01J 35/0006	<administrative transfer to B01J 35/19>
D	B01J 35/0013	<administrative transfer to B01J 35/23>
D	B01J 35/002	<administrative transfer to B01J 35/30>
D	B01J 35/0026	<administrative transfer to B01J 35/31>
D	B01J 35/0033	<administrative transfer to B01J 35/33>
D	B01J 35/004	<administrative transfer to B01J 35/39>
D	B01J 35/0046	<administrative transfer to B01J 35/391>
D	B01J 35/0053	<administrative transfer to B01J 35/392>
D	B01J 35/006	<administrative transfer to B01J 35/393>
D	B01J 35/0066	<administrative transfer to B01J 35/394>
D	B01J 35/0073	<administrative transfer to B01J 35/396>
D	B01J 35/008	<administrative transfer to B01J 35/397>
D	B01J 35/0086	<administrative transfer to B01J 35/398>
D	B01J 35/0093	<administrative transfer to B01J 35/399>
D	B01J 35/02	<administrative transfer to B01J 35/00 and B01J 35/30 simultaneously>
D	B01J 35/023	<administrative transfer to B01J 35/40>
D	B01J 35/026	<administrative transfer to B01J 35/50>
D	B01J 35/04	<administrative transfer to B01J 35/56>
D	B01J 35/06	<administrative transfer to B01J 35/58>
D	B01J 35/065	<administrative transfer to B01J 35/59>
D	B01J 35/08	<administrative transfer to B01J 35/51>
D	B01J 35/10	<administrative transfer to B01J 35/60>
D	B01J 35/1004	<administrative transfer to B01J 35/61>
D	B01J 35/1009	<administrative transfer to B01J 35/612>
D	B01J 35/1014	<administrative transfer to B01J 35/613>
D	B01J 35/1019	<administrative transfer to B01J 35/615>
D	B01J 35/1023	<administrative transfer to B01J 35/617>
D	B01J 35/1028	<administrative transfer to B01J 35/618>
D	B01J 35/1033	<administrative transfer to B01J 35/63>
D	B01J 35/1038	<administrative transfer to B01J 35/633>
D	B01J 35/1042	<administrative transfer to B01J 35/635>
D	B01J 35/1047	<administrative transfer to B01J 35/638>
D	B01J 35/1052	<administrative transfer to B01J 35/64>
D	B01J 35/1057	<administrative transfer to B01J 35/643>
D	B01J 35/1061	<administrative transfer to B01J 35/647>
D	B01J 35/1066	<administrative transfer to B01J 35/651>
D	B01J 35/1071	<administrative transfer to B01J 35/653>
D	B01J 35/1076	<administrative transfer to B01J 35/657>
D	B01J 35/108	<administrative transfer to B01J 35/66>
D	B01J 35/1085	<administrative transfer to B01J 35/67>
D	B01J 35/109	<administrative transfer to B01J 35/69>

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Type*	From CPC Symbol (existing)	To CPC Symbol(s)
D	B01J 35/1095	<administrative transfer to B01J 35/695>
D	B01J 35/12	<administrative transfer to B01J 35/27>
Q	B01J 35/23	B01J 35/23, B01J 35/45
Q	B01J 35/30	B01J 35/30, B01J 35/34, B01J 35/36, B01J 35/37, B01J 35/38, B01J 35/395, B01J 35/70, B01J 35/73, B01J 35/733, B01J 35/735, B01J 35/737, B01J 35/77, B01J 35/80, B01J 2235/00, B01J 2235/05, B01J 2235/10, B01J 2235/15, B01J 2235/30,
Q	B01J 35/31	B01J 35/31, B01J 35/32, B01J 35/70, B01J 35/73, B01J 35/733, B01J 35/735, B01J 35/737, B01J 35/77, B01J 35/80, B01J 2235/00, B01J 2235/05, B01J 2235/10, B01J 2235/15, B01J 2235/30,
Q	B01J 35/393	B01J 35/393, B01J 35/73, B01J 35/733, B01J 35/735, B01J 35/737, B01J 2235/00, B01J 2235/05, B01J 2235/10, B01J 2235/15, B01J 2235/30
Q	B01J 35/40	B01J 35/40, B01J 35/45, B01J 35/77
Q	B01J 35/50	B01J 35/34, B01J 35/36, B01J 35/37, B01J 35/38, B01J 35/50, B01J 35/505, B01J 35/54, B01J 35/55, B01J 2235/00, B01J 2235/05, B01J 2235/10, B01J 2235/15, B01J 2235/30
Q	B01J 35/51	B01J 35/51, B01J 35/52, B01J 35/53
Q	B01J 35/56	B01J 35/56, B01J 35/57

* 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; D = deleted entries; F = frozen entries will be deleted once reclassification of documents from the entries is completed.

NOTES:

- Only C, D, F, and Q type entries are included in the table above.
- When multiple symbols are included in the “To” column, do not use ranges of symbols.
- 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 (“To”) symbol, however it is required to specify “<no transfer>” in the “To” column for such cases.
- RCL is not needed for finalisation projects.

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4. CHANGES TO THE CPC-TO-IPC CONCORDANCE LIST (CICL)

<u>CPC</u>	<u>IPC</u>	<u>Action*</u>
B01J 35/0006		DELETE
B01J 35/0013		DELETE
B01J 35/002		DELETE
B01J 35/0026		DELETE
B01J 35/0033		DELETE
B01J 35/004		DELETE
B01J 35/0046		DELETE
B01J 35/0053		DELETE
B01J 35/006		DELETE
B01J 35/0066		DELETE
B01J 35/0073		DELETE
B01J 35/008		DELETE
B01J 35/0086		DELETE
B01J 35/0093		DELETE
B01J 35/02		DELETE
B01J 35/023		DELETE
B01J 35/026		DELETE
B01J 35/04		DELETE
B01J 35/06		DELETE
B01J 35/065		DELETE
B01J 35/08		DELETE
B01J 35/10		DELETE
B01J 35/1004		DELETE
B01J 35/1009		DELETE
B01J 35/1014		DELETE
B01J 35/1019		DELETE
B01J 35/1023		DELETE
B01J 35/1028		DELETE
B01J 35/1033		DELETE
B01J 35/1038		DELETE
B01J 35/1042		DELETE
B01J 35/1047		DELETE
B01J 35/1052		DELETE
B01J 35/1057		DELETE
B01J 35/1061		DELETE
B01J 35/1066		DELETE
B01J 35/1071		DELETE
B01J 35/1076		DELETE

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<u>CPC</u>	<u>IPC</u>	<u>Action*</u>
B01J 35/108		DELETE
B01J 35/1085		DELETE
B01J 35/109		DELETE
B01J 35/1095		DELETE
B01J 35/12		DELETE
B01J 35/19	B01J 35/00	NEW
B01J 35/20	B01J 35/20	NEW
B01J 35/23	B01J 35/23	NEW
B01J 35/27	B01J 35/27	NEW
B01J 35/30	B01J 35/30	NEW
B01J 35/31	B01J 35/31	NEW
B01J 35/32	B01J 35/32	NEW
B01J 35/33	B01J 35/33	NEW
B01J 35/34	B01J 35/34	NEW
B01J 35/36	B01J 35/36	NEW
B01J 35/37	B01J 35/37	NEW
B01J 35/38	B01J 35/38	NEW
B01J 35/39	B01J 35/39	NEW
B01J 35/391	B01J 35/30	NEW
B01J 35/392	B01J 35/30	NEW
B01J 35/393	B01J 35/30	NEW
B01J 35/394	B01J 35/30	NEW
B01J 35/395	B01J 35/30	NEW
B01J 35/396	B01J 35/30	NEW
B01J 35/397	B01J 35/30	NEW
B01J 35/398	B01J 35/30	NEW
B01J 35/399	B01J 35/30	NEW
B01J 35/40	B01J 35/40	NEW
B01J 35/45	B01J 35/45	NEW
B01J 35/50	B01J 35/50	NEW
B01J 35/505	B01J 35/50	NEW
B01J 35/51	B01J 35/51	NEW
B01J 35/52	B01J 35/52	NEW
B01J 35/53	B01J 35/53	NEW
B01J 35/54	B01J 35/54	NEW
B01J 35/55	B01J 35/55	NEW
B01J 35/56	B01J 35/56	NEW
B01J 35/57	B01J 35/57	NEW
B01J 35/58	B01J 35/58	NEW
B01J 35/59	B01J 35/59	NEW
B01J 35/60	B01J 35/60	NEW
B01J 35/61	B01J 35/61	NEW
B01J 35/612	B01J 35/61	NEW
B01J 35/613	B01J 35/61	NEW

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<u>CPC</u>	<u>IPC</u>	<u>Action*</u>
B01J 35/615	B01J 35/61	NEW
B01J 35/617	B01J 35/61	NEW
B01J 35/618	B01J 35/61	NEW
B01J 35/63	B01J 35/63	NEW
B01J 35/633	B01J 35/63	NEW
B01J 35/635	B01J 35/63	NEW
B01J 35/638	B01J 35/63	NEW
B01J 35/64	B01J 35/64	NEW
B01J 35/643	B01J 35/64	NEW
B01J 35/647	B01J 35/64	NEW
B01J 35/651	B01J 35/64	NEW
B01J 35/653	B01J 35/64	NEW
B01J 35/657	B01J 35/64	NEW
B01J 35/66	B01J 35/66	NEW
B01J 35/67	B01J 35/67	NEW
B01J 35/69	B01J 35/69	NEW
B01J 35/695	B01J 35/66	NEW
B01J 35/70	B01J 35/70	NEW
B01J 35/73	B01J 35/73	NEW
B01J 35/733	B01J 35/70	NEW
B01J 35/735	B01J 35/70	NEW
B01J 35/737	B01J 35/70	NEW
B01J 35/77	B01J 35/77	NEW
B01J 35/80	B01J 35/80	NEW
B01J 2235/00	CPCONLY	NEW
B01J 2235/05	CPCONLY	NEW
B01J 2235/10	CPCONLY	NEW
B01J 2235/15	CPCONLY	NEW
B01J 2235/30	CPCONLY	NEW

*Action column:

- For an (N) or (Q) entry, provide an IPC symbol and complete the Action column with “NEW.”
- For an existing CPC main trunk entry or indexing entry where the existing IPC symbol needs to be changed, provide an updated IPC symbol and complete the Action column with “UPDATED.”
- For a (D) CPC entry or indexing entry complete the Action column with “DELETE.” IPC symbol does not need to be included in the IPC column.
- For an (N) 2000 series CPC entry which is positioned within the main trunk scheme (breakdown code) provide an IPC symbol and complete the action column with “NEW”.
- For an (N) 2000 series CPC entry positioned at the end of the CPC scheme (orthogonal code), with no IPC equivalent, complete the IPC column with “CPCONLY” and complete the action column with “NEW”.

NOTES:

- F symbols are not included in the CICAL table above.
- T and M symbols are not included in the CICAL table above unless a change to the existing IPC is desired.

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5. CROSS-REFERENCE LIST (CRL)

Scheme references impacted by this revision project

<u>Location of reference to be changed</u>	<u>Referenced subclass or group to be changed</u>	<u>Action; New reference symbol; New text</u>
B01J19/1893	ca talytic membranes B01J35/065	ca talytic membranes B01J35/59

Definitions references impacted by this revision project

<u>Location of reference to be changed</u>	<u>Referenced subclass or group to be changed</u>	<u>Section of definition</u>	<u>Action; New reference symbol; New text</u>
A61L9/205	Photocatalysts B01J35/004	Informative References	Catalysts characterised by their photocatalytic properties B01J35/39
B01D63/00	Honeycomb structures not relevant for membrane separation (silencers, catalysts etc.) B01J35/04	Informative References	Honeycomb structures not relevant for membrane separation, e.g. silencers or catalysts B01J35/56
B01D69/00	Catalysts, in general, characterised by their form or physical properties in the form of membranes B01J35/065	Informative References	Catalysts characterised by their shape or configuration, in the form of membranes B01J35/59
B01J21/063	Photocatalysts B01J35/004	Informative References	Catalysts characterised by their photocatalytic properties B01J35/39
B01J31/26	Catalysts comprising metal nanoparticles B01J35/0013	Informative References	Catalysts comprising metal nanoparticles B01J35/23
B01J31/26	Catalysts comprising metal nanoparticles B01J35/006	Informative References	Catalysts comprising metal nanoparticles B01J35/393
B01J37/0018	When applicable, groups from B01J35/10 are to be given additionally	Special Rules of Classification	When applicable, groups from B01J35/60 are to be given additionally
C04B35/195	Cordierite honeycombs containing a catalyst B01J35/04	Informative References	Cordierite honeycombs containing a catalyst B01J35/56
C04B38/009	Catalysts characterised by their form, spheres B01J35/08	Limiting References	Catalysts characterised by their shape, spheres B01J35/51
C04B2235/3481	Cordierite honeycombs containing a catalyst B01J35/04	Informative References	Cordierite honeycombs containing a catalyst B01J35/56
C25B1/55	Photocatalysts B01J35/004	Informative References	Catalysts characterised by their photocatalytic properties B01J35/39
C25B11/00	Photoelectrodes B01J35/004	Informative References	Catalysts characterised by their photocatalytic properties B01J35/39
C40B40/00	Supported catalysts used in combinatorial synthesis if the catalyst itself is not considered a combinatorial library B01J23/00-B01J35/12	Limiting References	Supported catalysts used in combinatorial synthesis if the catalyst itself is not considered a combinatorial library B01J23/00-B01J35/80

CPC NOTICE OF CHANGES 1588

DATE: JANUARY 1, 2024

PROJECT RP12086

NOTES:

- The CRL tables above are used for changes to locations **outside** of the project scope. Changes to references in scheme titles or definitions **inside** the project scope will be reflected in the “scheme change” template or one of the “definition” templates.
- In addition to other changes proposed in the tables above, in the column titled “Referenced subclass or group to be changed,” **referenced** D symbols should indicate an action of “delete” or should indicate a replacement symbol and **referenced** F symbols should indicate a replacement symbol.
- When a reference is deleted, text related to that reference will also be deleted unless other references or a range of references associated with the same text remain.