

EUROPEAN PATENT OFFICE
U.S. PATENT AND TRADEMARK OFFICE

CPC NOTICE OF CHANGES 467

DATE: JANUARY 1, 2018

PROJECT MP0396

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:	B01J	Subclass
	B01J	2/00
	B01J	3/00
	B01J	8/00, 8/14, 8/24
	B01J	13/00
	B01J	19/00, 19/10, 19/14, 19/20, 19/28
	B01J	20/00, 20/20
DEFINITIONS:		
Definitions New:	B01J	3/06, 3/08
	B01J	8/14, 8/24
	B01J	19/02, 19/08, 19/10, 19/14, 19/20, 19/28
	B01J	20/20
Definitions Modified:	B01J	Subclass
	B01J	2/00
	B01J	3/00
	B01J	8/00
	B01J	13/00
	B01J	19/00
	B01J	20/00

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 467

DATE: JANUARY 1, 2018

PROJECT MP0396

1. CLASSIFICATION SCHEME CHANGES

A. New, Modified or Deleted Group(s)

SUBCLASS B01J - CHEMICAL OR PHYSICAL PROCESSES, e.g. CATALYSIS, COLLOID CHEMISTRY; THEIR RELEVANT APPARATUS (processes or apparatus for specific applications, see the relevant places for these processes or apparatus, e.g. F26B 3/08)

<u>Type*</u>	<u>Symbol</u>	<u>Indent Level Number of dots (e.g. 0, 1, 2)</u>	<u>Title (new or modified)</u> <u>“CPC only” text should normally be enclosed in {curly brackets}**</u>	<u>Transferred to#</u>
M	B01J	0	CHEMICAL OR PHYSICAL PROCESSES, e.g. CATALYSIS OR COLLOID CHEMISTRY; THEIR RELEVANT APPARATUS	
M	B01J 2/00	0	Processes or devices for granulating materials {, e.g. fertilisers} in general; Rendering particulate materials free flowing in general, e.g. making them hydrophobic	
M	B01J 3/00	0	Processes of utilising sub-atmospheric or super-atmospheric pressure to effect chemical or physical change of matter; Apparatus therefor (pressure vessels for containing or storing compressed, liquefied or solidified gases F17C)	
M	B01J 8/00	0	Chemical or physical processes in general, conducted in the presence of fluids and solid particles; Apparatus for such processes	
M	B01J 8/14	2	moving in free vortex flow apparatus	
M	B01J 8/24	2	according to "fluidised-bed" technique (B01J 8/20 takes precedence)	
M	B01J 13/00	0	Colloid chemistry, e.g. the production of colloidal materials or their solutions, not otherwise provided for; Making microcapsules or microballoons	
M	B01J 19/00	0	Chemical, physical or physico-chemical processes in general; Their relevant apparatus	
M	B01J 19/10	2	employing sonic or ultrasonic vibrations	
M	B01J 19/14	1	Production of inert gas mixtures; Use of inert gases in general	
M	B01J 19/20	2	in the form of helices, e.g. screw reactors	
M	B01J 19/28	1	Moving reactors, e.g. rotary drums (B01J 19/08 takes precedence)	
M	B01J 20/00	0	Solid sorbent compositions or filter aid compositions; Sorbents for	

CPC NOTICE OF CHANGES 467

DATE: JANUARY 1, 2018

PROJECT MP0396

<u>Type*</u>	<u>Symbol</u>	<u>Indent Level Number of dots (e.g. 0, 1, 2)</u>	<u>Title (new or modified)</u> <u>“CPC only” text should normally be enclosed in {curly brackets}**</u>	<u>Transferred to#</u>
			chromatography; Processes for preparing, regenerating or reactivating thereof	
M	B01J 20/20	2	comprising free carbon; comprising carbon obtained by carbonising processes	

*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; E= 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).
- For U groups, the minimum requirement is to include the U group located immediately prior to the N group or N group array, in order to show the N group hierarchy and improve the readability and understanding of the scheme. 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 except “D” which requires only a symbol.
- #“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>” or “<administrative transfer to XX and YY simultaneously>” when administrative transfer of the same documents is to more than one place.
- Administrative transfer to main trunk groups is assumed to be “invention information”, unless otherwise indicated, and to 2000 series groups is assumed to be “additional information”.

2. A. DEFINITIONS (new)

Insert the following NEW definitions.

B01J 3/06

References

Informative references

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

Presses in general	B30B
--------------------	------

B01J 3/08

References

Informative references

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

Blasting	F42D
----------	------

B01J8/14

References

Informative references

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

Free vortex flow apparatus	B04C
----------------------------	------

DATE: JANUARY 1, 2018

PROJECT MP0396

B01J 8/24

References

Application-oriented references

Examples of places where the subject matter of this place is covered when specially adapted, used for a particular purpose, or incorporated in a larger system:

Combustion apparatus in which combustion takes place in a fluidised bed	F23C10/00
---	-----------

B01J 19/02

References

Informative references

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

Refractory details of furnaces	F27D
--------------------------------	------

B01J 19/08

References

Informative references

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

Generating or handling plasma	H05H 1/00
-------------------------------	-----------

DATE: JANUARY 1, 2018

PROJECT MP0396

B01J 19/10**References****Application-oriented references**

Examples of places where the subject matter of this place is covered when specially adapted, used for a particular purpose, or incorporated in a larger system:

Cleaning by sonic or ultrasonic vibrations	B08B3/12
Degasification of liquids	B01D19/0073
Auxiliary pre-treatment of gases or vapours by sounds or ultrasonics	B01D51/08
Mixing by means of ultrasonic vibrations	B01F11/02

B01J 19/14**References****Application-oriented references**

Examples of places where the subject matter of this place is covered when specially adapted, used for a particular purpose, or incorporated in a larger system:

Separation of gases or vapours	B01D53/00
--------------------------------	---------------------------

Informative references

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

Apparatus for generating gases	B01J7/00
Use of inert gas for filling space above liquid or between contents for reducing the vapour space or for reducing the formation of vapours within large containers	B65D90/44

DATE: JANUARY 1, 2018

PROJECT MP0396

B01J19/20**References****Informative references**

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

Thin-film reactors	B01J10/02
--------------------	---------------------------

B01J 19/28**References****Application-oriented references**

Examples of places where the subject matter of this place is covered when specially adapted, used for a particular purpose, or incorporated in a larger system:

Heat treatments such as calcining using rotating drums	B01J6/002
Rotary-drum furnaces	F27B7/00

Informative references

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

Centrifuges	B04B
-------------	----------------------

B01J20/20**References****Informative references**

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

Active carbon	C01B32/30
---------------	---------------------------

CPC NOTICE OF CHANGES 467

DATE: JANUARY 1, 2018

PROJECT MP0396

2. B. DEFINITIONS QUICK FIX

<u>Symbol</u>	<u>Location of change</u> (e.g., section title)	<u>Existing reference symbol or text</u>	<u>Action; New symbol; New text</u>
B01J	Limiting References		Delete the entire <i>Limiting References</i> section and table.
B01J	Application-oriented references	E.g. separation of liquids by ion-exchange adsorbents B01D15/04	Delete the existing text and replace with: Separation of liquids by ion-exchange adsorbents B01J 39/00 - B01J 49/90
B01J	Application-oriented references		Insert the following <u>new</u> rows in the <i>Application-oriented references</i> table. Combustion apparatus in which combustion takes place in a fluidised bed of fuel or other particles F23C 10/00 Drying solid materials to form a fluidised bed F26B 3/08
B01J	Informative References	Coating for CVD CVD processes Surface treatment of semi-conductors C23C 16/00, H01L 21/00, H01L 21/00	Delete the existing row and replace with the following <u>two</u> rows in the <i>Informative References</i> table. Chemical vapor deposition processes C23C 16/00 Surface treatment of semi-conductors H01L 21/00
B01J	Informative References		Add the following <u>new</u> row to the <i>Informative References</i> table. Lab-on-a-chip B01L 3/00
B01J	Informative References	B01D 53/94 and subgroups C01B 3/38 and subgroups C07C 29/132 and Subgroups C07C 29/153 and Subgroups C07C 253/24 and Subgroups C10G 2/30 and Subgroups	In the Informative references table, do the following: Delete the existing text “B01D 53/94 and subgroups” and replace with: B01D 53/94 - B01D 53/9495 . Delete the existing text “C01B 3/38 and subgroups” and replace with: C01B 3/38 - C01B 3/44 .

CPC NOTICE OF CHANGES 467

DATE: JANUARY 1, 2018

PROJECT MP0396

B01J 2/00	Informative References		<p>Insert the following <u>new</u> row in the Informative References table.</p> <p>Crushing, pulverising or disintegrating solids B02B</p>
B01J 3/00	Limiting References		<p>Delete the following rows from the Limiting References table.</p> <p>Pressure vessels or autoclaves for sterilization A61K</p> <p>Pressure vessels or autoclaves for laboratory purposes B01L</p> <p>Apparatus for compacting or sintering of metal powders B22F 3/00</p> <p>Coating metallic material C23C</p> <p>Making single crystals C30B</p> <p>Pressure vessels for nuclear reactors G21C</p>
B01J 3/00	Application-oriented References		<p>Insert a <u>new</u> Application-oriented References section and table with the following rows.</p> <p>Apparatus for compacting or sintering of metal powders B22F 3/00</p> <p>Pressure vessels for nuclear reactors G21C</p>
B01J 3/00	Informative References		<p>Insert the following <u>new</u> rows in the Informative References section and table.</p> <p>Pressure vessels or autoclaves for sterilization A61K</p> <p>Pressure vessels or autoclaves for laboratory purposes B01L</p> <p>Coating metallic material C23C</p> <p>Making single crystals C30B</p>
B01J 8/00	Limiting References		<p>Delete the entire Limiting References section and table.</p>
B01J 8/00	Application-oriented References		<p>Insert a <u>new</u> Application-oriented References section and table with the following row.</p> <p>Furnaces conducted in the presence of fluids and solid particles F27B</p>

CPC NOTICE OF CHANGES 467

DATE: JANUARY 1, 2018

PROJECT MP0396

B01J 8/00	Informative References		<p>Insert a new Informative References section and table with the following rows.</p> <p>Processes or devices for granulating material B01J 2/00</p> <p>Absorption B01J 13/00</p> <p>Adsorption B01D</p> <p>Loading and unloading vessels in general B65G</p> <p>Heat exchange apparatus F28C 3/10, F28D 13/00, F28D 17/00, F28D 19/00</p>
B01J 13/00	Limiting References		<p>Delete the entire Limiting References section and table.</p>
B01J 13/00	Application-oriented References		<p>Insert a new Application-oriented References section and table with the following row.</p> <p>Use of substances as emulsifying, wetting, dispersing or foam-producing agents B01F17/00</p>
B01J 13/00	Informative References		<p>Insert the following new row in the Informative References table.</p> <p>Microcapsules or microballoons for medical preparations A61K 9/50</p>
B01J 13/00	Informative References	A61K8/11F	<p>Delete the existing symbol and replace with the following symbol.</p> <p>A61K8/11</p>
B01J 13/00	Informative References	A61M2015/0011	<p>Delete the existing symbol and replace with the following symbol.</p> <p>A61M15/0011</p>
B01J 19/00	Limiting References		<p>Delete the entire Limiting References section and table.</p>
B01J 19/00	Application-oriented References		<p>Insert a new Application-oriented References section and table with the following rows.</p> <p>Packings, fillings or grids specially adapted for biological treatment of water, waste water or sewage C02F 3/10</p>

CPC NOTICE OF CHANGES 467

DATE: JANUARY 1, 2018

PROJECT MP0396

			Physical treatment of fibers, threads, yarns, fabrics, feathers or fibrous goods made from such materials D06M 10/00 Splashing boards or grids specially adapted for trickle coolers F28F 25/08
B01J 19/00	Special Rules of Classification	C12Q168/00	Delete existing symbol and replace with the following symbol. C12Q 2537/00
B01J 19/00	Special Rules of Classification	B01J19/00E	Delete existing symbol and replace with the following symbol. B01J 19/0053
B01J 19/00	Special Rules of Classification	B01J19/00P	Delete existing symbol and replace with the following symbol. B01J 19/0086
B01J 20/00	Limiting References		Delete the entire Limiting References section and table.
B01J 20/00	Application-oriented References		Insert a new Application-oriented References section and table with the following rows. Chromatography involving ion exchange B01D 15/361 Liquid absorbents for use in the separation of gases B01D 53/14 Ion-exchangers used in processes for treating water C02F 1/42 - C02F 2001/427
B01J 20/00	Informative References		Insert the following new rows in the Informative References table: Ion exchange materials or ion exchange processes B01J 39/00 - B01J 49/90 Liquid absorbents for solvent extraction processes, i.e. separating processes involving the treatment of liquids with liquid B01D 11/00 Compounds <u>per se</u> , see the relevant classes C01, C07, C08

CPC NOTICE OF CHANGES 467

DATE: JANUARY 1, 2018

PROJECT MP0396

B01J 20/00	Informative References	Investigating or analysing materials by separation into components using adsorption, absorption or similar phenomena or using ion-exchange, e.g. chromatography G01N 30/00	Add the following symbol to the existing row. G01N 30/96
B01J 20/00	Special Rules of Classification	B01J20/34C	Delete the existing symbol and replace with the following symbol. B01J20/3491
B01J 20/00	Special Rules of Classification	B01J20/34C	Delete the existing symbol and replace with the following symbol. B01J20/3491
B01J 20/00	Special Rules of Classification	B01J20/34C	Delete the existing symbol and replace with the following symbol. B01J20/3491

NOTES:

- The table above is used for corrections or modifications to existing definitions, e.g. delete an entire definition or part thereof; propose new wording or modify wording of a section, change the symbol the definition is associated with, change or delete a reference symbol, etc.
- Do not delete (F) symbol definitions.