

EUROPEAN PATENT OFFICE
U.S. PATENT AND TRADEMARK OFFICE

CPC NOTICE OF CHANGES 344

DATE: JANUARY 1, 2017

PROJECT RP0405

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

<u>Action</u>	<u>Subclass</u>	<u>Group(s)</u>
Symbols deleted:	B01J	39/043, 39/046, 39/085, 39/165, 39/185, 41/043, 41/046, 41/085, 41/125, 47/001, 47/002, 47/003, 47/005, 47/006, 47/007, 47/008, 47/105, 47/123, 47/126, 47/145, 49/0004, 49/0008, 49/0013, 49/0017, 49/0021, 49/0026, 49/003, 49/0034, 49/0039, 49/0043, 49/0047, 49/0052, 49/0056, 49/006, 49/0065, 49/0069, 49/0073, 49/0078, 49/0082, 49/0086, 49/0091, 49/0095, 49/02
Symbols newly created:	B01J	39/05, 39/07, 39/09, 39/17, 39/19, 41/05, 41/07, 41/09, 41/13, 47/011, 47/012, 47/014, 47/015, 47/016, 47/018, 47/019, 47/11, 47/127, 47/133, 47/15, 49/05, 49/06, 49/07, 49/08, 49/09, 49/10, 49/12, 49/14, 49/16, 49/18, 49/20, 49/30, 49/40, 49/45, 49/50, 49/53, 49/57, 49/60, 49/70, 49/75, 49/80, 49/85, 49/90
Title wording change:	B01J	39/00, 39/18, 39/20, 41/00, 41/10, 41/14, 47/022, 47/024, 47/026, 47/028, 47/06, 47/12, 47/14
Modified Definitions:	B01J	39/00, 41/00, 47/00, 49/00
Scheme Warning Notices to be modified:	B01D	subclass
	B01J	subclass

The following subclasses are also impacted by this Notice of Changes: C07C, G01N

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 Notice(s)
 - C. New, Modified or Deleted Note(s)
 - D. New, Modified or Deleted Guidance Heading(s)

CPC NOTICE OF CHANGES 344

DATE: JANUARY 1, 2017

PROJECT RP0405

2. DEFINITIONS (Modified)
 - A. DEFINITIONS (Full definition template)
 - B. DEFINITIONS (Definitions Quick Fix)
3. REVISION CONCORDANCE LIST (RCL)
4. CHANGES TO THE CPC-TO-IPC CONCORDANCE LIST (CICL)
5. CROSS-REFERENCE LIST (CRL)

CPC NOTICE OF CHANGES 344

DATE: JANUARY 1, 2017

PROJECT RP0405

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. F26B3/08)

<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>
D	B01J39/043	2	<i>{in the strongly acidic form}</i>	<administrative transfer to B01J39/05>
D	B01J39/046	2	<i>{in the weakly acidic form}</i>	<administrative transfer to B01J39/07>
D	B01J39/085	2	<i>{Inorganic material}</i>	<administrative transfer to B01J39/09>
D	B01J39/165	3	<i>{containing also inorganic materials, e.g. inert material coated with an ion-exchange resin}</i>	<administrative transfer to B01J39/17>
D	B01J39/185	4	<i>{obtained otherwise than by reactions only involving unsaturated carbon-to-carbon bonds}</i>	<administrative transfer to B01J39/19>
D	B01J41/043	2	<i>{in the strongly basic form}</i>	<administrative transfer to B01J41/05>
D	B01J41/046	2	<i>{in the weakly basic form}</i>	<administrative transfer to B01J41/07>
D	B01J41/085	2	<i>{Organic material (macromolecular compounds B01J41/12)}</i>	<administrative transfer to B01J41/09>
D	B01J41/125	3	<i>{obtained otherwise than by reactions only involving unsaturated carbon-to-carbon bonds}</i>	<administrative transfer to B01J41/13>
D	B01J47/001	1	<i>{using batch processes}</i>	<administrative transfer to B01J47/011>
D	B01J47/002	1	<i>{using portable ion-exchanging apparatus}</i>	<administrative transfer to B01J47/012>
D	B01J47/003	1	<i>{in which the adsorbent properties of the ion-exchanger are involved, e.g. recovery of high molecular compounds (proteins)}</i>	<administrative transfer to B01J47/014>
D	B01J47/005	1	<i>{electron-exchangers}</i>	<administrative transfer to B01J47/015>
D	B01J47/006	1	<i>{Modification or after-treatment of ion-exchangers}</i>	<administrative transfer to B01J47/016>
D	B01J47/007	1	<i>{Granulation, incorporation of ion-exchangers in a matrix, mixing with inert materials}</i>	<administrative transfer to B01J47/018>

CPC NOTICE OF CHANGES 344

DATE: JANUARY 1, 2017

PROJECT RP0405

Type*	Symbol	Indent Level Number of dots (e.g. 0, 1, 2)	Title (new or modified) "CPC only" text should normally be enclosed in {curly brackets}**	Transferred to#
D	B01J47/008	2	{mixture in form of tablets}	<administrative transfer to B01J47/019>
D	B01J47/105	2	{in rotating beds}	<administrative transfer to B01J47/11>
D	B01J47/123	2	{Use of materials in the form of filaments or fibres}	<administrative transfer to B01J47/127>
D	B01J47/126	2	{Precoat filters}	<administrative transfer to B01J47/133>
D	B01J47/145	2	{for obtaining a solution having a fixed pH}	<administrative transfer to B01J47/15>
D	B01J49/0004	1	{of fixed beds}	<administrative transfer to B01J49/05>
D	B01J49/0008	2	{containing cationic exchangers}	<administrative transfer to B01J49/06>
D	B01J49/0013	2	{containing anionic exchangers}	<administrative transfer to B01J49/07>
D	B01J49/0017	2	{containing cationic and anionic exchangers in separated beds}	<administrative transfer to B01J49/08>
D	B01J49/0021	2	{of mixed beds}	<administrative transfer to B01J49/09>
D	B01J49/0026	1	{of moving beds}	<administrative transfer to B01J49/10>
D	B01J49/003	2	{containing cationic exchangers}	<administrative transfer to B01J49/12>
D	B01J49/0034	2	{containing anionic exchangers}	<administrative transfer to B01J49/14>
D	B01J49/0039	2	{containing cationic and anionic exchangers in separated beds}	<administrative transfer to B01J49/16>
D	B01J49/0043	2	{of mixed beds}	<administrative transfer to B01J49/18>
D	B01J49/0047	1	{of membranes}	<administrative transfer to B01J49/20>
D	B01J49/0052	1	{electrical regeneration}	<administrative transfer to B01J49/30>
D	B01J49/0056	1	{thermal regeneration}	<administrative transfer to B01J49/40>
D	B01J49/006	2	{of amphoteric ion-exchangers ("Sirotherm process")}	<administrative transfer to B01J49/45>
D	B01J49/0065	1	{characterised by the regeneration reagents}	<administrative transfer to B01J49/50>
D	B01J49/0069	2	{for cationic exchangers}	<administrative transfer to B01J49/53>
D	B01J49/0073	2	{for anionic exchangers}	<administrative transfer to B01J49/57>
D	B01J49/0078	1	{Cleaning or rinsing ion-exchange beds}	<administrative transfer to B01J49/60>

CPC NOTICE OF CHANGES 344

DATE: JANUARY 1, 2017

PROJECT RP0405

<u>Type*</u>	<u>Symbol</u>	<u>Indent Level</u> <u>Number of dots</u> <u>(e.g. 0, 1, 2)</u>	<u>Title</u> <u>(new or modified)</u> <u>"CPC only" text should normally be enclosed in {curly brackets}**</u>	<u>Transferred to#</u>
D	B01J49/0082	1	<i>{Process involving a plant}</i>	<administrative transfer to B01J49/70>
D	B01J49/0086	2	<i>{of water softeners}</i>	<administrative transfer to B01J49/75>
D	B01J49/0091	1	<i>{Automatic regeneration}</i>	<administrative transfer to B01J49/80>
D	B01J49/0095	2	<i>{Controlling or regulating devices therefor}</i>	<administrative transfer to B01J49/85>
D	B01J49/02	1	<i>having devices which prevent back-flow of the ion-exchange mass during regenerating</i>	<administrative transfer to B01J49/90>
M	B01J39/00	0	Cation exchange; Use of material as cation exchangers; Treatment of material for improving the cation exchange properties (ion-exchange chromatography processes B01D15/36)	
U	B01J39/04	1	Processes using organic exchangers	
N	B01J39/05	2	in the strongly acidic form	
N	B01J39/07	2	in the weakly acidic form	
U	B01J39/08	1	Use of material as cation exchangers; Treatment of material for improving the cation exchange properties	
N	B01J39/09	2	Inorganic material	
U	B01J39/16	2	Organic material	
N	B01J39/17	3	containing also inorganic materials, e.g. inert material coated with an ion-exchange resin	
M	B01J39/18	3	Macromolecular compounds (B01J39/17 takes precedence)	
N	B01J39/19	4	obtained otherwise than by reactions only involving unsaturated carbon-to-carbon bonds	
M	B01J39/20	4	obtained by reactions only involving unsaturated carbon-to-carbon bonds	
M	B01J41/00	0	Anion exchange; Use of material as anion exchangers; Treatment of material for improving the anion exchange properties (ion-exchange chromatography processes B01D 15/36)	
U	B01J41/04	1	Processes using organic exchangers	
N	B01J41/05	2	in the strongly basic form	
N	B01J41/07	2	in the weakly basic form	
U	B01J41/08	1	Use of material as anion exchangers; Treatment of material for improving the anion exchange properties	
N	B01J41/09	2	Organic material	
M	B01J41/10	2	Inorganic material	

CPC NOTICE OF CHANGES 344

DATE: JANUARY 1, 2017

PROJECT RP0405

Type*	Symbol	Indent Level Number of dots (e.g. 0, 1, 2)	Title (new or modified) "CPC only" text should normally be enclosed in {curly brackets}**	Transferred to#
U	B01J41/12	2	Macromolecular compounds	
N	B01J41/13	3	obtained otherwise than by reactions only involving unsaturated carbon-to-carbon bonds	
M	B01J41/14	3	obtained by reactions only involving unsaturated carbon-to-carbon bonds	
U	B01J47/00	0	Ion-exchange processes in general; Apparatus therefor (ion-exchange chromatography processes or apparatus B01D 15/08)	
N	B01J47/011	1	using batch processes	
N	B01J47/012	1	using portable ion-exchange apparatus	
N	B01J47/014	1	in which the adsorbent properties of the ion-exchanger are involved, e.g. recovery of proteins or other high-molecular compounds	
N	B01J47/015	1	Electron-exchangers	
N	B01J47/016	1	Modification or after-treatment of ion-exchangers	
N	B01J47/018	1	Granulation; Incorporation of ion-exchangers in a matrix; Mixing with inert materials	
N	B01J47/019	2	Mixtures in form of tablets	
U	B01J47/02	1	Column or bed processes	
M	B01J47/022	2	characterised by the construction of the column or container	
M	B01J47/024	3	where the ion-exchangers are in a removable cartridge	
M	B01J47/026	2	using columns or beds of different ion exchange materials in series	
M	B01J47/028	3	with alternately arranged cationic and anionic exchangers	
M	B01J47/06	2	during which the ion-exchange material is subjected to a physical treatment, e.g. heat, electric current, irradiation or vibration (electrodialysis or electro-osmosis B01D 61/42)	
U	B01J47/10	1	with moving ion-exchange material; with ion-exchange material in suspension or in fluidised-bed form	
N	B01J47/11	2	in rotating beds	
M	B01J47/12	1	characterised by the use of ion-exchange material in the form of ribbons, filaments, fibres or sheets, e.g. membranes (electrodialysis or electro-osmosis B01D 61/42)	

CPC NOTICE OF CHANGES 344

DATE: JANUARY 1, 2017

PROJECT RP0405

Type*	Symbol	Indent Level Number of dots (e.g. 0, 1, 2)	Title (new or modified) "CPC only" text should normally be enclosed in {curly brackets}**	Transferred to#
N	B01J47/127	2	in the form of filaments or fibres	
N	B01J47/133	2	Precoat filters	
M	B01J47/14	1	Controlling or regulating	
N	B01J47/15	2	for obtaining a solution having a fixed pH	
U	B01J49/00	0	Regeneration or reactivation of ion-exchangers; Apparatus therefor (ion-exchange chromatography processes or apparatus B01D 15/08)	
N	B01J49/05	1	of fixed beds	
N	B01J49/06	2	containing cationic exchangers	
N	B01J49/07	2	containing anionic exchangers	
N	B01J49/08	2	containing cationic and anionic exchangers in separate beds	
N	B01J49/09	2	of mixed beds	
N	B01J49/10	1	of moving beds	
N	B01J49/12	2	containing cationic exchangers	
N	B01J49/14	2	containing anionic exchangers	
N	B01J49/16	2	containing cationic and anionic exchangers in separate beds	
N	B01J49/18	2	of mixed beds	
N	B01J49/20	1	of membranes	
N	B01J49/30	1	Electrical regeneration	
N	B01J49/40	1	Thermal regeneration	
N	B01J49/45	2	of amphoteric ion-exchangers	
N	B01J49/50	1	characterised by the regeneration reagents	
N	B01J49/53	2	for cationic exchangers	
N	B01J49/57	2	for anionic exchangers	
N	B01J49/60	1	Cleaning or rinsing ion-exchange beds	
N	B01J49/70	1	for large scale industrial processes or applications	
N	B01J49/75	1	of water softeners	
N	B01J49/80	1	Automatic regeneration	
N	B01J49/85	2	Controlling or regulating devices therefor	
N	B01J49/90	1	having devices which prevent back-flow of the ion-exchange mass during regeneration	

*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:

CPC NOTICE OF CHANGES 344

DATE: JANUARY 1, 2017

PROJECT RP0405

- **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”.

CPC NOTICE OF CHANGES 344

DATE: JANUARY 1, 2017

PROJECT RP0405

B. New, Modified or Deleted Warning notice(s)

B01D SEPARATION (separating solids from solids by wet methods B03B, B03D; by pneumatic jigs or tables B03B; by other dry methods B07; magnetic or electrostatic separation of solid materials from solid materials or fluids, separation by high-voltage electric fields B03C; centrifuges, vortex apparatus B04; presses per se for squeezing-out liquid from liquid-containing material B30B 9/02; treatment of water C02F, e.g. softening by ion-exchange C02F 1/42; {arrangements of air intake cleaners in gas turbine plants F02C 7/05}; arrangements or mounting of filters in air-conditioning, air-humidification or ventilation F24F 13/28)

<u>Type*</u>	<u>Location</u>	<u>Old Warning notice</u>	<u>New/Modified Warning notice</u>
M	B01D	B01D15/04 covered by B01J39/00 - B01J49/02	B01D15/04 covered by B01J39/00 - B01J49/90
M	B01J	The following IPC groups are not used in the CPC scheme. Subject matter covered by these groups is classified in the following CPC groups: B01J37/025 covered by B01J37/02	<u>Insert</u> the following text under the last sentence: B01D15/04 covered by B01J39/00 to B01J49/90

*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.

DATE: JANUARY 1, 2017

PROJECT RP0405

2. A. DEFINITIONS (Modified)

B01J39/00

Limiting references

Add: The following symbol to the second column of this row: "*Preparative chromatography processes involving cation exchange*":

B01D15/36,

Delete: The following two rows:

Investigative or analytical ... cation exchange	G01N30/96
Regeneration or reactivation ... exchangers	B01J49/00- B01J49/02

Informative references

Delete: The following text located under the preamble:

Cation exchange relating to particular applications, or relating to treating particular compound, may be classified in the following non-exhaustive list:

Delete: The text and symbol below from the second column of this row: "*Processes involving the treatment of (waste) by ion-exchange*":

and Indexing Code C02F1/42

Insert: The following two new rows:

Regeneration or reactivation of cation exchangers	B01J49/00- B01J49/90
Investigative or analytical chromatography processes involving cation exchange	G01N30/96

DATE: JANUARY 1, 2017

PROJECT RP0405

Special rules of classification

Delete: The second paragraph in the Special Rules section:

The IPC group B01D15/04 is not used in the internal ECLA classification scheme. Subject-matter covered by this group is classified in B01J39/00 to B01J49/02.

Delete: The following symbols from the first bulleted statement following “For example:”

B01J39/043+ B01J39/046

Replace with: The following symbols:

B01J39/05 and B01J39/07

Delete: The following text from the second bulleted statement following “For example:”

with : B01J39/02+

Replace with: The following text:

with: B01J39/02 and

Delete: The text below from the third bulleted statement following “For example:”

B01J39/043+ B01J41/046

Replace with: The following text:

B01J39/05 and B01J41/07

DATE: JANUARY 1, 2017

PROJECT RP0405

B01J41/00

Limiting references

Insert: In the second column of this row: "*Preparative chromatography processes involving anion exchange*", the following symbol:

B01D15/36,

Delete: The following two rows:

Investigative or analytical chromatography processes involving
anion exchange G01N30/96

Regeneration or reactivation of anion exchangers
B01J49/00-B01J49/02

Informative references

Delete: The following text located below the preamble:

Anion exchange relating to particular applications, or relating to treating particular compound, may be classified in the following non-exhaustive list:

Delete: From the second column of this row: "*Processes involving the treatment of (waste) water by ion-exchange*", the following text:

and Indexing Code C02F1/42

Insert: The following two new rows:

Regeneration or reactivation of anion exchangers	B01J49/00- B01J49/90
Investigative or analytical chromatography processes involving anion exchange	G01N30/96

DATE: JANUARY 1, 2017

PROJECT RP0405

Special rules of classification

Delete: The second paragraph in the Special Rules section:

The IPC group B01D15/04 is not used in the internal ECLA classification scheme. Subject-matter covered by this group is classified in B01J39/00 to B01J49/02.

Delete: The symbols below from the first bulleted statement following “For example:”

B01J41/043+ B01J41/046

Replace with: The symbols shown below:

B01J41/05 and B01J41/07

Delete: The text below from the second bulleted statement following “For example:”

with : B01J39/02+

Replace with: The text shown below:

with: B01J39/02 and B01J41/02

Delete: The text below from the third bulleted statement following “For example:”

B01J39/043+ B01J41/046

Replace with: The text shown below:

B01J39/05 and B01J41/07

DATE: JANUARY 1, 2017

PROJECT RP0405

B01J43/00

Special rules of classification

Delete: The second paragraph in the Special Rules section:

The IPC group B01D15/04 is not used in the internal ECLA classification scheme. Subject-matter covered by this group is classified in B01J39/00 to B01J49/02.

B01J45/00

Special rules of classification

Delete: The second paragraph in the Special Rules section:

The IPC group B01D15/04 is not used in the internal ECLA classification scheme. Subject-matter covered by this group is classified in B01J39/00 to B01J49/02.

B01J47/00

Limiting references

Delete: Only the text and symbols (not the row) shown below:

Preparative chromatography processes or apparatus therefor involving ion-exchange...B01D15/361, B01D15/08- B01D15/247

Replace with: The text and symbols shown below:

Ion-exchange chromatography processes or apparatus
B01D15/08, B01D15/361

DATE: JANUARY 1, 2017

PROJECT RP0405

Delete: The following three rows completely:

Regeneration or reactivation of ion exchangers ... B01J49/00-
B01J49/02

Processes or apparatus using semi-permeable membranes for
electrodialysis, electro-osmosis; Such processes or apparatus
comprising ion-exchange materials ... B01D61/42-
B01D61/485

Investigative or analytical chromatography processes or
apparatus therefor involving ion exchange ... G01N30/96

Informative references

Delete: From the second column of this row: “*Processes involving the treatment of (waste) water by ion-exchange*”, the text shown below:

and Indexing Code [C02F1/42](#)

Delete: From the second column of this row: “*Arrangements or adaptation of water softeners and constructional ... crockery or tableware*”, the text below (duplicated symbol):

A47L15/4229,

Insert: The following three new rows:

Processes or apparatus using semi-permeable membranes for electrolysis or electro-osmosis; Such processes or apparatus comprising ion exchange materials	B01D61/42
Regeneration or reactivation of ion exchangers	B01J49/00- B01J49/90
Investigative or analytical chromatography processes involving ion exchange	G01N30/96

DATE: JANUARY 1, 2017

PROJECT RP0405

Special rules of classification

Delete: The second paragraph of the Special Rules section:

The IPC group B01D15/04 is not used in the internal ECLA classification scheme. Subject-matter covered by this group is classified in B01J39/00 - B01J49/02.

B01J49/00

Limiting references

Delete: The first row completely:

Regeneration or reactivation of solid sorbents ... B01J20/34

Delete: In the first column of the remaining row, the text shown below:

Preparative chromatography processes or apparatus involving ion exchange

Replace with: The text shown below:

Ion-exchange chromatography processes or apparatus

Informative references

Delete: From this row: "*Processes involving the ... water by ion-exchange*", the following duplicate symbol:

C02F1/42,

Insert: The new row shown below:

Regeneration or reactivation of solid sorbents ... B01J20/34

DATE: JANUARY 1, 2017

PROJECT RP0405

Special rules of classification

Delete: The second paragraph in the Special Rules section:

The IPC group B01D15/04 is not used in the internal ECLA classification scheme. Subject-matter covered by this group is classified in B01J39/00 to B01J49/02.

CPC NOTICE OF CHANGES 344

DATE: JANUARY 1, 2017

PROJECT RP0405

3. REVISION CONCORDANCE LIST (RCL)

Type*	From CPC Symbol (existing)	To CPC Symbol(s)
D	B01J39/043	<administrative transfer to B01J39/05>
D	B01J39/046	<administrative transfer to B01J39/07>
D	B01J39/085	<administrative transfer to B01J39/09>
D	B01J39/165	<administrative transfer to B01J39/17>
D	B01J39/185	<administrative transfer to B01J39/19>
D	B01J41/043	<administrative transfer to B01J41/05>
D	B01J41/046	<administrative transfer to B01J41/07>
D	B01J41/085	<administrative transfer to B01J41/09>
D	B01J41/125	<administrative transfer to B01J41/13>
D	B01J47/001	<administrative transfer to B01J47/011>
D	B01J47/002	<administrative transfer to B01J47/012>
D	B01J47/003	<administrative transfer to B01J47/014>
D	B01J47/005	<administrative transfer to B01J47/015>
D	B01J47/006	<administrative transfer to B01J47/016>
D	B01J47/007	<administrative transfer to B01J47/018>
D	B01J47/008	<administrative transfer to B01J47/019>
D	B01J47/105	<administrative transfer to B01J47/11>
D	B01J47/123	<administrative transfer to B01J47/127>
D	B01J47/126	<administrative transfer to B01J47/133>
D	B01J47/145	<administrative transfer to B01J47/15>
D	B01J49/0004	<administrative transfer to B01J49/05>
D	B01J49/0008	<administrative transfer to B01J49/06>
D	B01J49/0013	<administrative transfer to B01J49/07>
D	B01J49/0017	<administrative transfer to B01J49/08>
D	B01J49/0021	<administrative transfer to B01J49/09>
D	B01J49/0026	<administrative transfer to B01J49/10>
D	B01J49/003	<administrative transfer to B01J49/12>
D	B01J49/0034	<administrative transfer to B01J49/14>
D	B01J49/0039	<administrative transfer to B01J49/16>
D	B01J49/0043	<administrative transfer to B01J49/18>
D	B01J49/0047	<administrative transfer to B01J49/20>
D	B01J49/0052	<administrative transfer to B01J49/30>
D	B01J49/0056	<administrative transfer to B01J49/40>
D	B01J49/006	<administrative transfer to B01J49/45>
D	B01J49/0065	<administrative transfer to B01J49/50>
D	B01J49/0069	<administrative transfer to B01J49/53>
D	B01J49/0073	<administrative transfer to B01J49/57>
D	B01J49/0078	<administrative transfer to B01J49/60>
D	B01J49/0082	<administrative transfer to B01J49/70>
D	B01J49/0086	<administrative transfer to B01J49/75>
D	B01J49/0091	<administrative transfer to B01J49/80>
D	B01J49/0095	<administrative transfer to B01J49/85>
D	B01J49/02	<administrative transfer to B01J49/90>

* 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

CPC NOTICE OF CHANGES 344

DATE: JANUARY 1, 2017

PROJECT RP0405

into the Q entry will either stay or be moved to more appropriate entries, as determined by intellectual reclassification; D = deleted entries.

NOTES:

- Only C, D, F and Q type entries are included in the table above.
- When multiple symbols are included in the “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”.

CPC NOTICE OF CHANGES 344

DATE: JANUARY 1, 2017

PROJECT RP0405

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

<u>CPC</u>	<u>IPC</u>	<u>Action*</u>
B01J39/043		DELETE
B01J39/046		DELETE
B01J39/085		DELETE
B01J39/165		DELETE
B01J39/185		DELETE
B01J41/043		DELETE
B01J41/046		DELETE
B01J41/085		DELETE
B01J41/125		DELETE
B01J47/001		DELETE
B01J47/002		DELETE
B01J47/003		DELETE
B01J47/005		DELETE
B01J47/006		DELETE
B01J47/007		DELETE
B01J47/008		DELETE
B01J47/105		DELETE
B01J47/123		DELETE
B01J47/126		DELETE
B01J47/145		DELETE
B01J49/0004		DELETE
B01J49/0008		DELETE
B01J49/0013		DELETE
B01J49/0017		DELETE
B01J49/0021		DELETE
B01J49/0026		DELETE
B01J49/003		DELETE
B01J49/0034		DELETE
B01J49/0039		DELETE
B01J49/0043		DELETE
B01J49/0047		DELETE
B01J49/0052		DELETE
B01J49/0056		DELETE
B01J49/006		DELETE
B01J49/0065		DELETE
B01J49/0069		DELETE
B01J49/0073		DELETE
B01J49/0078		DELETE
B01J49/0082		DELETE
B01J49/0086		DELETE
B01J49/0091		DELETE
B01J49/0095		DELETE

CPC NOTICE OF CHANGES 344

DATE: JANUARY 1, 2017

PROJECT RP0405

<u>CPC</u>	<u>IPC</u>	<u>Action*</u>
B01J49/02		DELETE
B01J39/05	B01J39/05	NEW
B01J39/07	B01J39/07	NEW
B01J39/09	B01J39/09	NEW
B01J39/17	B01J39/17	NEW
B01J39/19	B01J39/19	NEW
B01J41/05	B01J41/05	NEW
B01J41/07	B01J41/07	NEW
B01J41/09	B01J41/09	NEW
B01J41/13	B01J41/13	NEW
B01J47/011	B01J47/011	NEW
B01J47/012	B01J47/012	NEW
B01J47/014	B01J47/014	NEW
B01J47/015	B01J47/015	NEW
B01J47/016	B01J47/016	NEW
B01J47/018	B01J47/018	NEW
B01J47/019	B01J47/019	NEW
B01J47/022	B01J47/022	UPDATED
B01J47/024	B01J47/024	UPDATED
B01J47/026	B01J47/026	UPDATED
B01J47/028	B01J47/028	UPDATED
B01J47/11	B01J47/11	NEW
B01J47/127	B01J47/127	NEW
B01J47/133	B01J47/133	NEW
B01J47/15	B01J47/15	NEW
B01J49/05	B01J49/05	NEW
B01J49/06	B01J49/06	NEW
B01J49/07	B01J49/07	NEW
B01J49/08	B01J49/08	NEW
B01J49/09	B01J49/09	NEW
B01J49/10	B01J49/10	NEW
B01J49/12	B01J49/12	NEW
B01J49/14	B01J49/14	NEW
B01J49/16	B01J49/16	NEW
B01J49/18	B01J49/18	NEW
B01J49/20	B01J49/20	NEW
B01J49/30	B01J49/30	NEW
B01J49/40	B01J49/40	NEW
B01J49/45	B01J49/45	NEW
B01J49/50	B01J49/50	NEW
B01J49/53	B01J49/53	NEW
B01J49/57	B01J49/57	NEW
B01J49/60	B01J49/60	NEW
B01J49/70	B01J49/70	NEW
B01J49/75	B01J49/75	NEW
B01J49/80	B01J49/80	NEW

CPC NOTICE OF CHANGES 344

DATE: JANUARY 1, 2017

PROJECT RP0405

<u>CPC</u>	<u>IPC</u>	<u>Action*</u>
B01J49/85	B01J49/85	NEW
B01J49/90	B01J49/90	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 CICL table above.
- E and M symbols are not included in the CICL table above unless a change to the existing IPC is desired.

CPC NOTICE OF CHANGES 344

DATE: JANUARY 1, 2017

PROJECT RP0405

5. CROSS-REFERENCE LIST (CRL)

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>
B01D15/00	B01J49/02	Limiting references	B01J49/90
B01D15/00	B01J49/02	Special rules of classification within this subclass/group	B01J49/90
B01J20/00	B01J49/02	Limiting references	B01J49/90
B01J43/00	B01J49/02	Limiting references	B01J49/90
B01J43/00	B01J49/02	Special rules of classification within this group	B01J49/90
B01J45/00	B01J49/02	Limiting references	B01J49/90
B01J45/00	B01J49/02	Special rules of classification within this group	B01J49/90
C07C1/00	B01J49/02	Relationships with other classification places	B01J49/90
C07C1/00	B01J49/02	Informative references	B01J49/90
C07C2/00	B01J49/02	Informative references	B01J49/90
C07C4/00	B01J49/02	Informative references	B01J49/90
C07C5/00	B01J49/02	Informative references	B01J49/90
C07C6/00	B01J49/02	Informative references	B01J49/90
C07C7/00	B01J49/02	Informative references	B01J49/90
C07C2521/00	B01J49/02 (first paragraph)	Relationships with other classification places	B01J49/90
C07C2521/00	B01J49/02 (second paragraph)	Relationships with other classification places	B01J49/90
C07C2523/00	B01J49/02 (first paragraph)	Relationships with other classification places	B01J49/90
C07C2523/00	classes (first line/second paragraph)	Relationships with other classification places	groups
C07C2523/00	B01J49/02 (second paragraph)	Relationships with other classification places	B01J49/90
C07C2525/00	B01J49/02 (first paragraph)	Relationships with other classification places	B01J49/90
C07C2525/00	classes (first line/second paragraph)	Relationships with other classification places	groups
C07C2525/00	B01J49/02 (second paragraph)	Relationships with other classification places	B01J49/90
C07C2527/00	B01J49/02 (first paragraph)	Relationships with other classification places	B01J49/90

CPC NOTICE OF CHANGES 344

DATE: JANUARY 1, 2017

PROJECT RP0405

C07C2527/00	classes (first line/second paragraph)	Relationships with other classification places	groups
C07C2527/00	B01J49/02 (second paragraph)	Relationships with other classification places	B01J49/90
C07C2529/00	B01J49/02 (first paragraph)	Relationships with other classification places	B01J49/90
C07C2529/00	B01J49/02 (second paragraph)	Relationships with other classification places	B01J49/90
C07C2531/00	B01J49/02 (first paragraph)	Relationships with other classification places	B01J49/90
C07C2531/00	classes (first line/second paragraph)	Relationships with other classification places	groups
C07C2531/00	B01J49/02 (second paragraph)	Relationships with other classification places	B01J49/90
G01N33/98	B01J49/02	Informative references	B01J49/90

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.