

EUROPEAN PATENT OFFICE  
U.S. PATENT AND TRADEMARK OFFICE

CPC NOTICE OF CHANGES 1344

DATE: AUGUST 1, 2022

PROJECT RP10389

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

<u>Action</u>	<u>Subclass</u>	<u>Group(s)</u>
<b>SCHEME:</b>		
Symbols Deleted:	B01D	61/022, 61/142
	B01D	63/029
	B01D	65/006
	B01D	2313/38
	B01D	2321/2091
Symbols New:	B01D	61/0021, 61/0022, 61/0023, 61/0024, 61/026, 61/0271, 61/029, 61/081, 61/146, 61/1471, 61/149, 61/244, 61/2461, 61/3621, 61/363, 61/3631, 61/3641, 61/365, 61/3651, 61/423, 61/4251, 61/4271, 61/428, 61/4281, 61/461, 61/462, 61/463, 61/464, 61/465, 61/466, 61/467, 61/468
	B01D	63/0221, 63/0222, 63/0223, 63/0224, 63/0225, 63/0231, 63/0232, 63/0233, 63/0241, 63/031, 63/032, 63/033, 63/034, 63/069, 63/0821, 63/0822, 63/089, 63/101, 63/1031, 63/107
	B01D	65/109
	B01D	67/00041, 67/00042, 67/00043, 67/00044, 67/00045, 67/00046, 67/00091, 67/00111, 67/00113, 67/00135, 67/00165, 67/0031, 67/00411, 67/00412, 67/00413, 67/00414, 67/00415, 67/00416, 67/0049, 67/00791, 67/00793, 67/00931, 67/00933
	B01D	69/061, 69/0871, 69/106, 69/107, 69/1071, 69/108, 69/1212, 69/1213, 69/1214, 69/1216, 69/1218, 69/1251, 69/1411, 69/14111
	B01D	71/0211, 71/0212, 71/0213, 71/0215, 71/0221, 71/0223, 71/02231, 71/02232, 71/0227, 71/0271, 71/0281, 71/05, 71/261, 71/262, 71/281, 71/282, 71/283, 71/301, 71/381, 71/382, 71/383, 71/401, 71/4011, 71/402, 71/403, 71/404, 71/421, 71/441, 71/481, 71/521, 71/5211, 71/522, 71/5221, 71/5222, 71/5223, 71/601, 71/641, 71/642, 71/643, 71/69, 71/701, 71/702

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<u>Action</u>	<u>Subclass</u>	<u>Group(s)</u>
	B01D	2311/1031, 2311/1032, 2311/1061, 2311/251, 2311/2512, 2311/2513, 2311/252, 2311/2521, 2311/2523, 2311/253, 2311/2531, 2311/2532, 2311/2643, 2311/2674, 2311/2697, 2311/2698, 2311/2699
	B01D	2313/041, 2313/042, 2313/131, 2313/201, 2313/2011, 2313/203, 2313/2031, 2313/205, 2313/206, 2313/2061, 2313/2062, 2313/208, 2313/221, 2313/367, 2313/501, 2313/502, 2313/57, 2313/60, 2313/62, 2313/64, 2313/66, 2313/68, 2313/70, 2313/701, 2313/702, 2313/901, 2313/902, 2313/903
	B01D	2315/17, 2315/22, 2315/24
	B01D	2321/167, 2321/281, 2321/282, 2321/35, 2321/42, 2321/44
	B01D	2323/081, 2323/082, 2323/15, 2323/216, 2323/217, 2323/218, 2323/2181, 2323/21811, 2323/21813, 2323/21815, 2323/21817, 2323/21819, 2323/2182, 2323/21821, 2323/21822, 2323/21823, 2323/21824, 2323/21825, 2323/21826, 2323/21827, 2323/21828, 2323/21829, 2323/2183, 2323/21831, 2323/21832, 2323/21833, 2323/21834, 2323/21835, 2323/21836, 2323/21837, 2323/21838, 2323/21839, 2323/2185, 2323/2187, 2323/2189, 2323/219, 2323/226, 2323/52, 2323/54, 2323/56, 2323/58, 2323/60, 2323/62, 2323/64, 2323/66
	B01D	2325/0212, 2325/0214, 2325/0231, 2325/0232, 2325/0233, 2325/0281, 2325/0282, 2325/0283, 2325/02831, 2325/02832, 2325/02833, 2325/02834, 2325/341, 2325/39, 2325/43, 2325/50, 2325/52, 2325/54, 2325/56, 2325/58
Titles Changed:	B01D	61/00, 61/002, 61/005, 61/025, 61/027, 61/145, 61/147, 61/24, 61/30, 61/32, 61/42, 61/52, 61/58
	B01D	63/005, 63/023, 63/024, 63/082
	B01D	67/0002, 67/0004, 67/0013, 67/0018, 67/0032, 67/0039, 67/0041, 67/0079, 67/0088
	B01D	69/125
	B01D	71/028, 71/44, 71/72
	B01D	2311/16, 2311/25, 2311/26
	B01D	2313/22, 2313/50, 2313/58, 2313/90
	B01D	2317/00
	B01D	2319/00

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	B01D	2321/28, 2321/346
	B01D	2323/14, 2323/16, 2323/18, 2323/20, 2323/21, 2323/22
	B01D	2325/02, 2325/021, 2325/34, 2325/44
Indents Changed:	B01D	2323/16, 2323/18, 2323/20, 2323/21, 2323/22
	B01D	2325/44
Warnings Deleted:	B01D	65/04, 65/06
Warnings New:	B01D	61/002, 61/0021, 61/0022, 61/0023, 61/0024, 61/026, 61/0271, 61/029, 61/08, 61/081, 61/146, 61/1471, 61/149, 61/24, 61/243, 61/244, 61/246, 61/2461, 61/36, 61/362, 61/3621, 61/363, 61/364, 61/3641, 61/365, 61/42, 61/422, 61/423, 61/425, 61/4251, 61/427, 61/4271, 61/428, 61/46, 61/461, 61/462, 61/463, 61/464, 61/465, 61/466, 61/467, 61/468
	B01D	63/02, 63/021, 63/022, 63/0221, 63/0222, 63/0223, 63/0224, 63/0225, 63/0231, 63/0232, 63/0233, 63/024, 63/0241, 63/031, 63/032, 63/033, 63/034, 63/06, 63/069, 63/08, 63/082, 63/0821, 63/0822, 63/089, 63/10, 63/101, 63/103, 63/1031, 63/107
	B01D	65/10, 65/109
	B01D	67/0004, 67/00041, 67/00042, 67/00043, 67/00044, 67/00045, 67/00046, 67/0009, 67/00091, 67/0011, 67/00111, 67/00113, 67/0013, 67/00135, 67/0016, 67/00165, 67/003, 67/0031, 67/0039, 67/0041, 67/00411, 67/00412, 67/00413, 67/00414, 67/00415, 67/00416, 67/0049, 67/0079, 67/00791, 67/00793, 67/0093, 67/00931, 67/00933
	B01D	69/06, 69/061, 69/087, 69/0871, 69/10, 69/106, 69/107, 69/108, 69/12, 69/1212, 69/1213, 69/1214, 69/1216, 69/1218, 69/125, 69/1251, 69/141, 69/1411

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	B01D	71/02, 71/021, 71/0211, 71/0212, 71/0213, 71/0215, 71/022, 71/0221, 71/0223, 71/0227, 71/024, 71/0271, 71/028, 71/0281, 71/05, 71/26, 71/261, 71/262, 71/28, 71/281, 71/282, 71/283, 71/30, 71/301, 71/38, 71/381, 71/382, 71/383, 71/40, 71/401, 71/402, 71/403, 71/404, 71/42, 71/421, 71/44, 71/441, 71/48, 71/481, 71/52, 71/521, 71/522, 71/60, 71/601, 71/64, 71/641, 71/642, 71/643, 71/66, 71/69, 71/70, 71/701, 71/702
	B01D	2311/103, 2311/1031, 2311/1032, 2311/106, 2311/1061, 2311/25, 2311/251, 2311/252, 2311/253, 2311/26, 2311/2643, 2311/2674, 2311/2697, 2311/2698, 2311/2699
	B01D	2313/00, 2313/04, 2313/041, 2313/042, 2313/13, 2313/131, 2313/20, 2313/201, 2313/203, 2313/205, 2313/206, 2313/208, 2313/22, 2313/221, 2313/36, 2313/367, 2313/50, 2313/501, 2313/502, 2313/56, 2313/57, 2313/60, 2313/62, 2313/64, 2313/66, 2313/68, 2313/70, 2313/90, 2313/901, 2313/902, 2313/903
	B01D	2315/00, 2315/17, 2315/22, 2315/24
	B01D	2321/00, 2321/16, 2321/167, 2321/281, 2321/282, 2321/35, 2321/42, 2321/44
	B01D	2323/00, 2323/08, 2323/081, 2323/082, 2323/15, 2323/216, 2323/217, 2323/218, 2323/2181, 2323/21811, 2323/21813, 2323/21815, 2323/21817, 2323/21819, 2323/2182, 2323/21821, 2323/21822, 2323/21823, 2323/21824, 2323/21825, 2323/21826, 2323/21827, 2323/21828, 2323/21829, 2323/2183, 2323/21831, 2323/21832, 2323/21833, 2323/21834, 2323/21835, 2323/21836, 2323/21837, 2323/21838, 2323/21839, 2323/2185, 2323/2187, 2323/2189, 2323/219, 2323/226, 2323/52, 2323/54, 2323/56, 2323/58, 2323/60, 2323/62, 2323/64, 2323/66
	B01D	2325/00, 2325/02, 2325/021, 2325/0212, 2325/0214, 2325/022, 2325/0231, 2325/0232, 2325/0233, 2325/0281, 2325/0282, 2325/0283, 2325/34, 2325/341, 2325/39, 2325/43, 2325/44, 2325/50, 2325/52, 2325/54, 2325/56, 2325/58

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Notes New:	B01D	61/04, 61/16
	B01D	65/00
	B01D	2311/00
Notes Modified:	B01D	SUBCLASS
	B01D	61/00 - 71/00
	B01D	61/00, 61/58
	B01D	63/00
	B01D	65/02, 65/08
	B01D	67/00
	B01D	69/00, 69/02
	B01D	71/00
<b>DEFINITIONS:</b>		
Definitions New:	B01D	61/002, 61/02, 61/081, 61/246, 61/364, 61/365, 61/58
	B01D	63/089, 63/101
	B01D	65/06
	B01D	67/00045, 67/0079, 67/0088, 67/00933
	B01D	69/061, 69/1213, 69/1214
	B01D	71/028
Definitions Modified:	B01D	61/00
	B01D	63/00
	B01D	65/00
	B01D	67/00
	B01D	69/00
	B01D	71/00
	B01D	2311/00
	B01D	2317/00
	B01D	2319/00

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

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

1. CLASSIFICATION SCHEME CHANGES

- A. New, Modified or Deleted Group(s)
- B. New, Modified or Deleted Warning(s)
- C. New, Modified or Deleted Note(s)
- D. New, Modified or Deleted Guidance Heading(s)

2. DEFINITIONS

- A. New or Modified Definitions (Full definition template)

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- 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 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 B30B9/02; treatment of water C02F, e.g. softening by ion-exchange C02F1/42; {arrangements of air intake cleaners in gas turbine plants F02C7/05}; arrangements or mounting of filters in air-conditioning, air-humidification or ventilation F24F13/28)

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M	B01D61/00	0	Processes of separation using semi-permeable membranes, e.g. dialysis, osmosis or ultrafiltration; Apparatus, accessories or auxiliary operations specially adapted therefor (separation of gases or vapours by diffusion B01D53/22)	
C	B01D61/002	1	{Forward osmosis or direct osmosis}	B01D61/002, B01D61/0021, B01D61/0022, B01D61/0023, B01D61/0024
N	B01D61/0021	2	{comprising multiple forward osmosis steps}	
N	B01D61/0022	2	{Apparatus therefor}	
N	B01D61/0023	2	{Accessories; Auxiliary operations}	
N	B01D61/0024	2	{Controlling or regulating}	
M	B01D61/005	2	{Osmotic agents; Draw solutions}	
D	B01D61/022	2	{comprising multiple reverse osmosis, hyperfiltration or nanofiltration steps}	<administrative transfer to B01D61/026>
M	B01D61/025	2	{Reverse osmosis; Hyperfiltration}	
Q	B01D61/026	3	{comprising multiple reverse osmosis steps}	B01D61/026, B01D61/0271, B01D61/029

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M	B01D61/027	2	{Nanofiltration}	
N	B01D61/0271	3	{comprising multiple nanofiltration steps}	
N	B01D61/029	2	{Multistep processes comprising different kinds of membrane processes selected from reverse osmosis, hyperfiltration or nanofiltration}	
C	B01D61/08	2	Apparatus therefor	B01D61/08, B01D61/081
N	B01D61/081	3	{used at home, e.g. kitchen}	
U	B01D61/14	1	Ultrafiltration; Microfiltration	
D	B01D61/142	2	{comprising multiple ultrafiltration or microfiltration steps}	<administrative transfer to B01D61/146>
M	B01D61/145	2	{Ultrafiltration}	
Q	B01D61/146	3	{comprising multiple ultrafiltration steps}	B01D61/146, B01D61/1471, B01D61/149
M	B01D61/147	2	{Microfiltration}	
N	B01D61/1471	3	{comprising multiple microfiltration steps}	
N	B01D61/149	2	{Multistep processes comprising different kinds of membrane processes selected from ultrafiltration or microfiltration}	
C	B01D61/24	1	Dialysis {; Membrane extraction}	B01D61/24, B01D61/244, B01D61/2461
C	B01D61/243	2	{Dialysis}	B01D61/243, B01D61/244
N	B01D61/244	3	{comprising multiple dialysis steps}	
C	B01D61/246	2	{Membrane extraction}	B01D61/246, B01D61/2461
N	B01D61/2461	3	{comprising multiple membrane extraction steps}	
M	B01D61/30	2	Accessories; Auxiliary operation	
M	B01D61/32	2	Controlling or regulating	



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C	B01D61/36	1	Pervaporation; Membrane distillation; Liquid permeation	B01D61/36, B01D61/363, B01D61/3631, B01D61/365, B01D61/3651
C	B01D61/362	2	{Pervaporation}	B01D61/362, B01D61/3621
N	B01D61/3621	3	{comprising multiple pervaporation steps}	
N	B01D61/363	2	{Vapour permeation}	
N	B01D61/3631	3	{comprising multiple vapour permeation steps}	
C	B01D61/364	2	{Membrane distillation}	B01D61/364, B01D61/3641
N	B01D61/3641	3	{comprising multiple membrane distillation steps}	
N	B01D61/365	2	{Osmotic distillation or osmotic evaporation}	
N	B01D61/3651	3	{comprising multiple osmotic distillation or evaporation steps}	
C	B01D61/42	1	Electrodialysis; Electro-osmosis; Electro-ultrafiltration; Membrane capacitive deionization}	B01D61/42, B01D61/423, B01D61/4251, B01D61/4271, B01D61/428, B01D61/4281
C	B01D61/422	2	{Electrodialysis}	B01D61/422, B01D61/423
N	B01D61/423	3	{comprising multiple electrodialysis steps}	
C	B01D61/425	2	{Electro-ultrafiltration}	B01D61/425, B01D61/4251
N	B01D61/4251	3	{comprising multiple electro-ultrafiltration steps}	
C	B01D61/427	2	{Electro-osmosis}	B01D61/427, B01D61/4271
N	B01D61/4271	3	{comprising multiple electro-osmosis steps}	
N	B01D61/428	2	{Membrane capacitive deionization}	

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N	B01D61/4281	3	{comprising multiple membrane capacitive deionization steps}	
C	B01D61/46	3	Apparatus therefor	B01D61/46, B01D61/461, B01D61/462, B01D61/463, B01D61/464, B01D61/465, B01D61/466, B01D61/467, B01D61/468
N	B01D61/461	4	{comprising only a single cell, only one anion or cation exchange membrane or one pair of anion and cation membranes}	
N	B01D61/462	4	{comprising the membrane sequence AA, where A is an anion exchange membrane}	
N	B01D61/463	4	{comprising the membrane sequence AC or CA, where C is a cation exchange membrane}	
N	B01D61/464	4	{comprising the membrane sequence CC}	
N	B01D61/465	4	{comprising the membrane sequence AB or BA, where B is a bipolar membrane}	
N	B01D61/466	4	{comprising the membrane sequence BC or CB}	
N	B01D61/467	4	{comprising the membrane sequence BB}	
N	B01D61/468	4	{comprising more than two electrodes}	
M	B01D61/52	3	Accessories; Auxiliary operation	
M	B01D61/58	1	Multistep processes	
M	B01D63/005	1	{Microfluidic devices (Microfluidic devices comprising semi-permeable hollow fibre membranes B01D 63/028; Microfluidic devices comprising semi-permeable flat membranes B01D 63/088)}	
C	B01D63/02	1	Hollow fibre modules	B01D63/02, B01D63/031, B01D63/032,

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				B01D63/033, B01D63/034
C	B01D63/021	2	{Manufacturing thereof}	B01D63/021, B01D63/0231, B01D63/0232, B01D63/0233
C	B01D63/022	3	{Encapsulating hollow fibres}	B01D63/022, B01D63/0221, B01D63/0222, B01D63/0223, B01D63/0224, B01D63/0225
N	B01D63/0221	4	{using a mould}	
N	B01D63/0222	4	{using centrifugal forces}	
N	B01D63/0223	4	{by fixing the hollow fibres prior to encapsulation}	
N	B01D63/0224	4	{Opening the fibre ends after encapsulation}	
N	B01D63/0225	4	{Multiple encapsulation layers}	
M	B01D63/023	4	{Encapsulating materials}	
N	B01D63/0231	3	{using supporting structures, e.g. filaments for weaving mats}	
N	B01D63/0232	3	{using hollow fibers mats as precursor, e.g. wound or pleated mats}	
N	B01D63/0233	3	{forming the bundle}	
C	B01D63/024	2	{with a single potted end}	B01D63/024, B01D63/0241
N	B01D63/0241	3	{being U-shaped}	
U	B01D 63/028	2	{Microfluidic devices comprising semi-permeable hollow fibre membranes}	
D	B01D63/029	2	{Microfluidic devices comprising semi-permeable hollow fibre membranes}	<administrative transfer to B01D63/028>
N	B01D63/031	2	{Two or more types of hollow fibres within one bundle or within one potting or tube-sheet}	

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N	B01D63/032	2	{More than two tube sheets for one bundle}	
N	B01D63/033	2	{Specific distribution of fibres within one potting or tube-sheet}	
N	B01D63/034	2	{Lumen open in more than two directions}	
C	B01D63/06	1	Tubular membrane modules	B01D63/06, B01D63/069
U	B01D63/068	2	{with flexible membrane tubes}	
N	B01D63/069	2	{comprising a bundle of tubular membranes}	
C	B01D63/08	1	Flat membrane modules	B01D63/08, B01D63/089
C	B01D63/082	2	{comprising a stack of flat membranes}	B01D63/082, B01D63/0821, B01D63/0822
N	B01D63/0821	3	{Membrane plate arrangements for submerged operation}	
N	B01D63/0822	3	{Plate-and-frame devices}	
U	B01D63/088	2	{Microfluidic devices comprising semi-permeable flat membranes}	
N	B01D63/089	2	{Modules where the membrane is in the form of a bag, membrane cushion or pad}	
C	B01D63/10	1	Spiral-wound membrane modules	B01D63/10, B01D63/101, B01D63/107
N	B01D63/101	2	{Spiral winding}	
C	B01D63/103	2	{Details relating to membrane envelopes}	B01D63/103, B01D63/1031
N	B01D63/1031	3	{Glue line or sealing patterns}	
U	B01D63/106	2	{Anti-Telescopic-Devices [ATD]}	
N	B01D63/107	2	{Specific properties of the central tube or the permeate channel}	
D	B01D65/006	1	{Membrane storage}	<administrative transfer to B01D67/0097>

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C	B01D65/10	1	Testing of membranes or membrane apparatus; Detecting or repairing leaks	B01D65/10, B01D65/109
U	B01D65/108	3	{Repairing membranes}	
N	B01D65/109	2	{Testing of membrane fouling or clogging, e.g. amount or affinity}	
M	B01D67/0002	1	{Organic membrane manufacture}	
C	B01D67/0004	2	{by agglomeration of particles}	B01D67/0004, B01D67/00041, B01D67/00042, B01D67/00043, B01D67/00044, B01D67/00045, B01D67/00046
N	B01D67/00041	3	{by sintering}	
N	B01D67/00042	3	{by deposition of fibres, nanofibres or nanofibrils}	
N	B01D67/00043	3	{by agglomeration of nanoparticles}	
N	B01D67/00044	3	{by plasma spraying}	
N	B01D67/00045	3	{by additive layer techniques, e.g. selective laser sintering [SLS], selective laser melting [SLM] or 3D printing}	
N	B01D67/00046	3	{by deposition by filtration through a support or base layer}	
C	B01D67/0009	2	{by phase separation, sol-gel transition, evaporation or solvent quenching}	B01D67/0009, B01D67/00091
N	B01D67/00091	3	{by evaporation}	
C	B01D67/0011	3	{Casting solutions therefor}	B01D67/0011, B01D67/00111, B01D67/00113
N	B01D67/00111	4	{Polymer pretreatment in the casting solutions}	
N	B01D67/00113	4	{Pretreatment of the casting solutions, e.g. thermal treatment or ageing}	

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C	B01D67/0013	3	{Casting processes}	B01D67/0013, B01D67/00135
N	B01D67/00135	4	{Air gap characteristics}	
C	B01D67/0016	3	{Coagulation}	B01D67/0016, B01D67/00165
N	B01D67/00165	4	{Composition of the coagulation baths}	
M	B01D67/0018	3	{Thermally induced processes [TIPS]}	
C	B01D67/003	3	{by selective elimination of components, e.g. by leaching}	B01D67/003, B01D67/0031
N	B01D67/0031	4	{by elimination of at least one of the blocks of a block copolymer}	
M	B01D67/0032	3	{by elimination of segments of the precursor, e.g. nucleation-track membranes, lithography or laser methods}	
C	B01D67/0039	1	{Inorganic membrane manufacture}	B01D67/0039, B01D67/0049
C	B01D67/0041	2	{by agglomeration of particles in the dry state}	B01D67/0041, B01D67/00411, B01D67/00412, B01D67/00413, B01D67/00414, B01D67/00415, B01D67/00416
N	B01D67/00411	3	{by sintering}	
N	B01D67/00412	3	{by deposition of fibres, nanofibres or nanofibrils}	
N	B01D67/00413	3	{by agglomeration of nanoparticles}	
N	B01D67/00414	3	{by plasma spraying}	
N	B01D67/00415	3	{by additive layer techniques, e.g. selective laser sintering [SLS], selective laser melting [SLM] or 3D printing}	
N	B01D67/00416	3	{by deposition by filtration through a support or base layer}	
U	B01D67/0048	2	{by sol-gel transition}	

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N	B01D67/0049	2	{by evaporation}	
C	B01D67/0079	1	{Manufacture of membranes comprising organic and inorganic components}	B01D67/0079, B01D67/00791, B01D67/00793
N	B01D67/00791	2	{Different components in separate layers}	
N	B01D67/00793	2	{Dispersing a component, e.g. as particles or powder, in another component}	
M	B01D67/0088	2	{Physical treatment with compounds, e.g. swelling, coating or impregnation}	
C	B01D67/0093	2	{Chemical modification}	B01D67/0093, B01D67/00931, B01D67/00933
N	B01D67/00931	3	{by introduction of specific groups after membrane formation, e.g. by grafting}	
N	B01D67/00933	3	{by addition of a layer chemically bonded to the membrane}	
C	B01D69/06	1	Flat membranes	B01D69/06, B01D69/061
N	B01D69/061	2	{Membrane bags or membrane cushions}	
C	B01D69/087	2	{Details relating to the spinning process}	B01D69/087, B01D69/0871
N	B01D69/0871	3	{Fibre guidance after spinning through the manufacturing apparatus}	
C	B01D69/10	1	Supported membranes; Membrane supports	B01D69/10, B01D69/106, B01D69/107, B01D69/1071, B01D69/108
U	B01D69/105	2	{Support pretreatment}	
N	B01D69/106	2	{Membranes in the pores of a support, e.g. polymerized in the pores or voids}	
N	B01D69/107	2	{Organic support material}	
N	B01D69/1071	3	{Woven, non-woven or net mesh}	
N	B01D69/108	2	{Inorganic support material}	

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C	B01D69/12	1	Composite membranes; Ultra-thin membranes	B01D69/12, B01D69/1212, B01D69/1213, B01D69/1214, B01D69/1216, B01D69/1218
N	B01D69/1212	2	{Coextruded layers}	
N	B01D69/1213	2	{Laminated layers}	
N	B01D69/1214	2	{Chemically bonded layers, e.g. cross-linking}	
N	B01D69/1216	2	{Three or more layers}	
N	B01D69/1218	2	{Layers having the same chemical composition, but different properties, e.g. pore size, molecular weight or porosity}	
C	B01D69/125	2	{ <u>In situ</u> manufacturing by polymerisation, polycondensation, cross-linking or chemical reaction}	B01D69/125, B01D69/1251
N	B01D69/1251	3	{by interfacial polymerisation}	
C	B01D69/141	2	{Heterogeneous membranes, e.g. containing dispersed material; Mixed matrix membranes}	B01D69/141, B01D69/1411, B01D69/14111
N	B01D69/1411	3	{containing dispersed material in a continuous matrix}	
N	B01D69/14111	4	{with nanoscale dispersed material, e.g. nanoparticles}	
C	B01D71/02	1	Inorganic material	B01D71/02, B01D71/0213, B01D71/0215, B01D71/05
C	B01D71/021	2	{Carbon}	B01D71/021, B01D71/0211, B01D71/0212
N	B01D71/0211	3	{Graphene or derivatives thereof}	
N	B01D71/0212	3	{Carbon nanotubes}	
N	B01D71/0213	2	{Silicon}	



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N	B01D71/0215	2	{Silicon carbide; Silicon nitride; Silicon oxycarbide}	
C	B01D71/022	2	{Metals}	B01D71/022, B01D71/0221, B01D71/0223, B01D71/02231, B01D71/02232, B01D71/0227
N	B01D71/0221	3	{Group 4 or 5 metals}	
N	B01D71/0223	3	{Group 8, 9 or 10 metals}	
N	B01D71/02231	4	{Palladium}	
N	B01D71/02232	4	{Nickel}	
N	B01D71/0227	3	{comprising an intermediate layer for avoiding intermetallic diffusion}	
C	B01D71/024	2	{Oxides}	B01D71/024, B01D71/0271
U	B01D71/027	3	{Silicium oxide}	
N	B01D71/0271	3	{Perovskites}	
C	B01D71/028	2	{Molecular sieves (carbon B01D71/021)}	B01D71/028, B01D71/0281
N	B01D71/0281	3	{Zeolites}	
U	B01D71/04	2	Glass	
N	B01D71/05	2	{Cermet materials}	
U	B01D71/06	1	Organic material	
C	B01D71/26	2	Polyalkenes	B01D71/26, B01D71/261, B01D71/262
N	B01D71/261	3	{Polyethylene}	
N	B01D71/262	3	{Polypropylene}	
C	B01D71/28	2	Polymers of vinyl aromatic compounds	B01D71/28, B01D71/281, B01D71/282, B01D71/283
N	B01D71/281	3	{Polystyrene}	

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N	B01D71/282	3	{Polyvinylphenol}	
N	B01D71/283	3	{Polyvinylpyridine}	
C	B01D71/30	2	Polyalkenyl halides	B01D71/30, B01D71/301
N	B01D71/301	3	{Polyvinylchloride}	
C	B01D71/38	2	Polyalkenylalcohols; Polyalkenylesters; Polyalkenylethers; Polyalkenylaldehydes; Polyalkenylketones; Polyalkenylacetals; Polyalkenylketals	B01D71/38, B01D71/381, B01D71/382, B01D71/383
N	B01D71/381	3	{Polyvinylalcohol}	
N	B01D71/382	3	{Polyvinylethers}	
N	B01D71/383	3	{Polyvinylacetates}	
C	B01D71/40	2	Polymers of unsaturated acids or derivatives thereof, e.g. salts, amides, imides, nitriles, anhydrides, esters	B01D71/40, B01D71/401, B01D71/4011, B01D71/402, B01D71/403, B01D71/404
N	B01D71/401	3	{Polymers based on the polymerisation of acrylic acid, e.g. polyacrylate}	
N	B01D71/4011	4	{Polymethylmethacrylate}	
N	B01D71/402	3	{Polymers based on the polymerisation of fumaric acid or derivatives thereof}	
N	B01D71/403	3	{Polymers based on the polymerisation of maleic acid or derivatives thereof}	
N	B01D71/404	3	{Polymers based on the polymerisation of crotonic acid}	
C	B01D71/42	3	Polymers of nitriles, e.g. polyacrylonitrile	B01D71/42, B01D71/421
N	B01D71/421	4	{Polyacrylonitrile}	
C	B01D71/44	2	Polymers obtained by reactions only involving carbon-to-carbon unsaturated bonds, not provided for in a single one of groups B01D 71/26-B01D 71/42	B01D71/44, B01D71/441

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N	B01D71/441	3	{Polyvinylpyrrolidone}	
C	B01D71/48	2	Polyesters	B01D71/48, B01D71/481
N	B01D71/481	3	{Polyarylates}	
C	B01D71/52	2	Polyethers	B01D71/52, B01D71/521, B01D71/5211, B01D71/522, B01D71/5221, B01D71/5222, B01D71/5223
N	B01D71/521	3	{Aliphatic polyethers}	
N	B01D71/5211	4	{Polyethylene glycol or polyethyleneoxide}	
N	B01D71/522	3	{Aromatic polyethers}	
N	B01D71/5221	4	{Polyaryletherketone}	
N	B01D71/5222	4	{Polyetherketone, polyetheretherketone, or polyaryletherketone}	
N	B01D71/5223	4	{Polyphenylene oxide, phenyl ether polymers or polyphenylethers}	
C	B01D71/60	3	Polyamines	B01D71/60, B01D71/601
N	B01D71/601	4	{Polyethylenimine}	
C	B01D71/64	4	Polyimides; Polyamide-imides; Polyester-imides; Polyamide acids or similar polyimide precursors	B01D71/64, B01D71/641, B01D71/642, B01D71/643
N	B01D71/641	5	{Polyamide-imides}	
N	B01D71/642	5	{Polyester-imides}	
N	B01D71/643	5	{Polyether-imides}	
C	B01D71/66	2	Polymers having sulfur in the main chain, with or without nitrogen, oxygen or carbon only	B01D71/66, B01D71/69
U	B01D71/68	3	Polysulfones; Polyethersulfones	
N	B01D71/69	3	{Polysulfonamides}	

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C	B01D71/70	2	Polymers having silicon in the main chain, with or without sulfur, nitrogen, oxygen or carbon only	B01D71/70, B01D71/701, B01D71/702
N	B01D71/701	3	{Polydimethylsiloxane}	
N	B01D71/702	3	{Polysilsesquioxanes or combination of silica with bridging organosilane groups}	
M	B01D71/72	2	Macromolecular compounds obtained otherwise than by reactions only involving carbon-to-carbon unsaturated bonds, not provided for in a single one of the groups B01D 71/46 - B01D 71/70{ and B01D 71/701 - B01D 71/702}	
U	B01D2311/10	1	Temperature control	
C	B01D2311/103	2	Heating	B01D2311/103, B01D2311/1031, B01D2311/1032
N	B01D2311/1031	3	Heat integration, heat recovery or reuse within an apparatus	
N	B01D2311/1032	3	Heating or reheating between serial separation steps	
C	B01D2311/106	2	Cooling	B01D2311/106, B01D2311/1061
N	B01D2311/1061	3	Cooling between serial separation steps	
M	B01D2311/16	1	Flow or flux control	
C	B01D2311/25	1	Recirculation, recycling or bypass, e.g. recirculation of concentrate into the feed	B01D2311/25, B01D2311/251, B01D2311/2512, B01D2311/2513, B01D2311/252, B01D2311/2521, B01D2311/2523, B01D2311/253, B01D2311/2531, B01D2311/2532
N	B01D2311/251	2	Recirculation of permeate	
N	B01D2311/2512	3	to feed side	

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N	B01D2311/2513	3	to concentrate side	
N	B01D2311/252	2	Recirculation of concentrate	
N	B01D2311/2521	3	to permeate side	
N	B01D2311/2523	3	to feed side	
N	B01D2311/253	2	Bypassing of feed	
N	B01D2311/2531	3	to permeate side	
N	B01D2311/2532	3	to concentrate side	
C	B01D2311/26	1	Further operations combined with membrane separation processes	B01D2311/26, B01D2311/2643, B01D2311/2674, B01D2311/2697, B01D2311/2698, B01D2311/2699
U	B01D2311/2642	2	Aggregation, sedimentation, flocculation, precipitation or coagulation	
N	B01D2311/2643	2	Crystallisation	
U	B01D2311/2673	2	Evaporation	
N	B01D2311/2674	2	Condensation	
U	B01D2311/2696	2	Catalytic reactions	
N	B01D2311/2697	2	Chromatography	
N	B01D2311/2698	2	Compression	
N	B01D2311/2699	2	Drying	
C	B01D2313/00	0	Details relating to membrane modules or apparatus	B01D2313/00, B01D2313/60, B01D2313/62, B01D2313/64, B01D2313/66, B01D2313/68, B01D2313/70, B01D2313/701, B01D2313/702
C	B01D2313/04	1	Specific sealing means	B01D2313/04, B01D2313/041, B01D2313/042

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N	B01D2313/041	2	Gaskets or O-rings	
N	B01D2313/042	2	Adhesives or glues	
C	B01D2313/13	1	Specific connectors	B01D2313/13, B01D2313/131
N	B01D2313/131	2	Quick connectors or quick-fit	
C	B01D2313/20	1	Specific housing	B01D2313/20, B01D2313/201, B01D2313/2011, B01D2313/203, B01D2313/2031, B01D2313/205, B01D2313/206, B01D2313/2061, B01D2313/2062, B01D2313/208
N	B01D2313/201	2	Closed housing, vessels or containers	
N	B01D2313/2011	3	Pressure vessels	
N	B01D2313/203	2	Open housings	
N	B01D2313/2031	3	Frame or cage-like structures	
N	B01D2313/205	2	characterised by the shape	
N	B01D2313/206	2	characterised by the material	
N	B01D2313/2061	3	Organic, e.g. polymeric material	
N	B01D2313/2062	3	Inorganic material	
N	B01D2313/208	2	Resilient or flexible housing walls, e.g. bags or foils	
C	B01D2313/22	1	Cooling or heating elements	B01D2313/22, B01D2313/221
N	B01D2313/221	2	Heat exchangers	
C	B01D2313/36	1	Energy sources	B01D2313/36, B01D2313/367
U	B01D2313/365	2	Electrical sources	
N	B01D2313/367	2	Renewable energy sources, e.g. wind or solar sources	

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D	B01D2313/38	1	Heat exchangers	<administrative transfer to B01D2313/221>
C	B01D2313/50	1	Specific extra tanks	B01D2313/50, B01D2313/501, B01D2313/502
N	B01D2313/501	2	Permeate storage tanks	
N	B01D2313/502	2	Concentrate storage tanks	
C	B01D2313/56	1	Specific mechanisms for loading the membrane in a module	B01D2313/56, B01D2313/57
N	B01D2313/57	1	Tools used for removal of membranes	
M	B01D2313/58	1	Parts of membrane modules specifically adapted for single use	
N	B01D2313/60	1	Specific sensors or sensor arrangements	
N	B01D2313/62	1	Displays	
N	B01D2313/64	1	Bar codes; Data storage means; RFID	
N	B01D2313/66	1	Biodegradability of parts of the module	
N	B01D2313/68	1	Biocompatibility of parts of the module	
N	B01D2313/70	1	Control means using a programmable logic controller [PLC] or a computer	
N	B01D2313/701	2	comprising a software program or a logic diagram	
N	B01D2313/702	2	comprising telecommunication features, e.g. modems or antennas	
C	B01D2313/90	1	Additional auxiliary systems integrated with the module or apparatus	B01D2313/60, B01D2313/62 B01D2313/70 B01D2313/701 B01D2313/702 B01D2313/90, B01D2313/901, B01D2313/902, B01D2313/903
N	B01D2313/901	2	Integrated prefilter	

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N	B01D2313/902	2	Integrated cleaning device	
N	B01D2313/903	2	Integrated control or detection device	
C	B01D2315/00	0	Details relating to the membrane module operation	B01D2315/00, B01D2315/17, B01D2315/22, B01D2315/24
U	B01D2315/16	1	Diafiltration	
N	B01D2315/17	1	Depth filtration, asymmetric membranes arranged with wider pore size side towards feed	
U	B01D2315/20	1	Operation control schemes defined by a periodically repeated sequence comprising filtration cycles combined with cleaning or gas supply, e.g. aeration	
N	B01D2315/22	1	Membrane contactor	
N	B01D2315/24	1	Counter-current operation	
M	B01D 2317/00	0	Membrane module arrangements within a plant or an apparatus	
M	B01D 2319/00	0	Membrane assemblies within one housing	
C	B01D2321/00	0	Details relating to membrane cleaning, regeneration, sterilization or to the prevention of fouling	B01D2321/00, B01D2321/281, B01D2321/282, B01D2321/35, B01D2321/42, B01D2321/44
C	B01D2321/16	1	Use of chemical agents	B01D2321/16, B01D2321/167
U	B01D2321/166	2	Use of enzymatic agents	
N	B01D2321/167	2	Use of scale inhibitors	
D	B01D 2321/2091	2	using movable bodies, e.g. foam balls	<administrative transfer to B01D65/04>
M	B01D2321/28	1	by soaking or impregnating	



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N	B01D2321/281	1	by applying a special coating to the membrane or to any module element	
N	B01D2321/282	1	by spray flush or jet flush	
M	B01D2321/346	2	by gamma radiation	
N	B01D2321/35	1	with acoustic waves	
U	B01D2321/40	1	Automatic control of cleaning processes	
N	B01D2321/42	1	Chemical regeneration	
N	B01D2321/44	1	Specific cleaning apparatus	
C	B01D2323/00	0	Details relating to membrane preparation	B01D2323/00, B01D2323/15, B01D2323/216, B01D2323/217 B01D2323/218, B01D2323/2181, B01D2323/21811, B01D2323/21813, B01D2323/21815, B01D2323/21817, B01D2323/21819, B01D2323/2182, B01D2323/21821, B01D2323/21822, B01D2323/21823, B01D2323/21824, B01D2323/21825, B01D2323/21826, B01D2323/21827, B01D2323/21828, B01D2323/21829, B01D2323/2183, B01D2323/21831, B01D2323/21832, B01D2323/21833, B01D2323/21834, B01D2323/21835, B01D2323/21836, B01D2323/21837, B01D2323/21838,

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<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>
				B01D2323/21839, B01D2323/2185, B01D2323/2187, B01D2323/2189, B01D2323/219, B01D2323/226, B01D2323/52, B01D2323/54, B01D2323/56, B01D2323/58, B01D2323/60, B01D2323/62, B01D2323/64, B01D2323/66
C	B01D2323/08	1	Specific temperatures applied	B01D2323/08, B01D2323/081, B01D2323/082
N	B01D2323/081	2	Heating	
N	B01D2323/082	2	Cooling	
M	B01D2323/14	1	Ageing features	
N	B01D2323/15	1	Use of additives	
M	B01D2323/16	2	Swelling agents	
M	B01D2323/18	2	Pore-control agents or pore formers	
M	B01D2323/20	2	Plasticizers	
M	B01D2323/21	2	Fillers	
N	B01D2323/216	2	Surfactants	
N	B01D2323/217	2	Emulgator or emulsion/foam forming agents	
N	B01D2323/218	2	Additive materials	
N	B01D2323/2181	3	Inorganic additives	
N	B01D2323/21811	4	Metals	
N	B01D2323/21813	4	Metal oxides	
N	B01D2323/21815	4	Acids	
N	B01D2323/21817	4	Salts	

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<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>
N	B01D2323/21819	4	Carbon, carbon nanotubes, graphene or derivatives thereof	
N	B01D2323/2182	3	Organic additives	
N	B01D2323/21821	4	Alkanes	
N	B01D2323/21822	4	Alkenes	
N	B01D2323/21823	4	Alcohols or hydroxydes, e.g. ethanol, glycerol or phenol	
N	B01D2323/21824	4	Aldehydes	
N	B01D2323/21825	4	Ketones	
N	B01D2323/21826	4	Acids, e.g. acetic acid	
N	B01D2323/21827	4	Salts	
N	B01D2323/21828	5	Ammonium Salts	
N	B01D2323/21829	4	Acrylates	
N	B01D2323/2183	4	Ethers	
N	B01D2323/21831	5	Cyclic ethers comprising heterocyclic O-Ring	
N	B01D2323/21832	5	Cyclic ethers comprising aromatic heterocyclic O-Ring	
N	B01D2323/21833	4	Esters	
N	B01D2323/21834	4	Amines	
N	B01D2323/21835	5	Cyclic amines comprising heterocyclic N-Ring, e.g. pyridine	
N	B01D2323/21836	5	Cyclic amines comprising aromatic heterocyclic N-Ring	
N	B01D2323/21837	4	Amides	
N	B01D2323/21838	4	Imides	
N	B01D2323/21839	4	Polymeric additives	
N	B01D2323/2185	5	Polyethylene glycol	
N	B01D2323/2187	5	Polyvinylpyrrolidone	
N	B01D2323/2189	3	Metal-organic compounds or complexes	

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<b>Type*</b>	<b>Symbol</b>	<b>Indent Level Number of dots (e.g. 0, 1, 2)</b>	<b>Title (new or modified)</b> <b>“CPC only” text should normally be enclosed in {curly brackets}**</b>	<b>Transferred to#</b>
N	B01D2323/219	1	Specific solvent system	
M	B01D2323/22	2	Specific non-solvents or non-solvent system	
U	B01D2323/225	2	Use of supercritical fluids	
N	B01D2323/226	2	Use of ionic liquids	
U	B01D2323/50	1	Control of the membrane preparation process	
N	B01D2323/52	1	Use of a mould	
N	B01D2323/54	1	Recycling of scrap material from production process or membrane fragments	
N	B01D2323/56	1	Use of ultrasound	
N	B01D2323/58	1	Fusion; Welding	
N	B01D2323/60	1	Co-casting; Co-extrusion	
N	B01D2323/62	1	Cutting the membrane	
N	B01D2323/64	1	Use of a temporary support	
N	B01D2323/66	1	Avoiding penetration into pores of support of further porous layer with fluid or counter-pressure	
C	B01D2325/00	0	Details relating to properties of membranes	B01D2325/00, B01D2325/39, B01D2325/43, B01D2325/50, B01D2325/52, B01D2325/54 B01D2325/56, B01D2325/58
C	B01D2325/02	1	Details relating to pores or porosity of the membranes	B01D2325/02, B01D2325/0281, B01D2325/0282, B01D2325/0283, B01D2325/02831, B01D2325/02832, B01D2325/02833, B01D2325/02834

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<b>Type*</b>	<b>Symbol</b>	<b>Indent Level Number of dots (e.g. 0, 1, 2)</b>	<b>Title (new or modified)</b> <b>“CPC only” text should normally be enclosed in {curly brackets}**</b>	<b>Transferred to#</b>
C	B01D2325/021	2	Pore shapes	B01D2325/021, B01D2325/0212, B01D2325/0214
N	B01D2325/0212	3	Symmetric or isoporous membranes	
N	B01D2325/0214	3	Tapered pores	
C	B01D2325/022	2	Asymmetric membranes	B01D2325/022, B01D2325/0231, B01D2325/0232, B01D2325/0233
U	B01D2325/023	3	Dense layer within the membrane	
N	B01D2325/0231	3	Dense layers being placed on the outer side of the cross-section	
N	B01D2325/0232	3	Dense layer on both outer sides of the membrane	
N	B01D2325/0233	3	with clearly distinguishable layers	
U	B01D2325/028	2	Microfluidic pore structures	
N	B01D2325/0281	2	Fibril, or microfibril structures	
N	B01D2325/0282	2	Dynamic pores-stimuli responsive membranes, e.g. thermoresponsive or pH-responsive	
N	B01D2325/0283	2	Pore size	
N	B01D2325/02831	3	less than 1 nm	
N	B01D2325/02832	3	1-10 nm	
N	B01D2325/02833	3	more than 10 and up to 100 nm	
N	B01D2325/02834	3	more than 0.1 and up to 1 $\mu$ m	
C	B01D2325/34	1	Molecular weight or degree of polymerisation	B01D2325/34, B01D2325/341
N	B01D2325/341	2	At least two polymers of same structure but different molecular weight	
U	B01D2325/38	1	Hydrophobic membranes	
N	B01D2325/39	1	Amphiphilic membranes	
U	B01D2325/42	1	Ion-exchange membranes	

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N	B01D2325/43	1	Specific optical properties	
C	B01D2325/44	2	Specific light transmission	B01D2325/43, B01D2325/44
U	B01D2325/48	1	Antimicrobial properties	
N	B01D2325/50	1	Membrane in gel form	
N	B01D2325/52	1	Crystallinity	
N	B01D2325/54	1	Interpenetration relationship between layers in supported or composite membranes	
N	B01D2325/56	1	Biodegradability of membrane	
N	B01D2325/58	1	Biocompatibility of membrane	

\*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<sup>1</sup>

## 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”.

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

**SUBCLASS 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 B30B9/02; treatment of water C02F, e.g. softening by ion-exchange C02F1/42; {arrangements of air intake cleaners in gas turbine plants F02C7/05}; arrangements or mounting of filters in air-conditioning, air-humidification or ventilation F24F13/28)**

<u>Type*</u>	<u>Location</u>	<u>Old Warning</u>	<u>New/Modified Warning</u>
N	B01D61/002		Group B01D 61/002 is impacted by reclassification into groups B01D 61/0021, B01D 61/0022, B01D 61/0023 and B01D 61/0024. All groups listed in this Warning should be considered in order to perform a complete search.
N	B01D61/0021		Group B01D 61/0021 is incomplete pending reclassification of documents from group B01D 61/002. Groups B01D 61/002 and B01D 61/0021 should be considered in order to perform a complete search.
N	B01D61/0022		Group B01D 61/0022 is incomplete pending reclassification of documents from group B01D 61/002. Groups B01D 61/002 and B01D 61/0022 should be considered in order to perform a complete search.
N	B01D61/0023		Group B01D 61/0023 is incomplete pending reclassification of documents from group B01D 61/002. Groups B01D 61/002 and B01D 61/0023 should be considered in order to perform a complete search.
N	B01D61/0024		Group B01D 61/0024 is incomplete pending reclassification of documents from group B01D 61/002. Groups B01D 61/002 and B01D 61/0024 should be considered in order to perform a complete search.
N	B01D61/026		Group B01D 61/026 is impacted by reclassification into groups B01D 61/0271 and B01D 61/029. Groups B01D 61/026, B01D 61/0271 and B01D 61/029 should be considered in order to perform a complete search.
N	B01D61/0271		Group B01D 61/0271 is incomplete pending reclassification of documents from group B01D 61/026. Groups B01D 61/026 and B01D 61/0271 should be considered in order to perform a complete search.
N	B01D61/029		Group B01D 61/029 is incomplete pending reclassification of documents from group B01D 61/026. Groups B01D 61/026 and B01D 61/029 should be considered in order to perform a complete search.

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N	B01D61/08		Group B01D 61/08 is impacted by reclassification into group B01D 61/081. Groups B01D 61/08 and B01D 61/081 should be considered in order to perform a complete search.
N	B01D61/081		Group B01D 61/081 is incomplete pending reclassification of documents from group B01D 61/08. Groups B01D 61/08 and B01D 61/081 should be considered in order to perform a complete search.
N	B01D61/146		Group B01D 61/146 is impacted by reclassification into groups B01D 61/1471 and B01D 61/149. Groups B01D 61/146, B01D 61/1471 and B01D 61/149 should be considered in order to perform a complete search.
N	B01D61/1471		Group B01D 61/1471 is incomplete pending reclassification of documents from group B01D 61/146. Groups B01D 61/146 and B01D 61/1471 should be considered in order to perform a complete search.
N	B01D61/149		Group B01D 61/149 is incomplete pending reclassification of documents from group B01D 61/146. Groups B01D 61/146 and B01D 61/149 should be considered in order to perform a complete search.
N	B01D61/24		Group B01D 61/24 is impacted by reclassification into groups B01D 61/244 and B01D 61/2461. Groups B01D 61/24, B01D 61/244 and B01D 61/2461 should be considered in order to perform a complete search.
N	B01D61/243		Group B01D 61/243 is impacted by reclassification into group B01D 61/244. Groups B01D 61/243 and B01D 61/244 should be considered in order to perform a complete search.
N	B01D61/244		Group B01D 61/244 is incomplete pending reclassification of documents from groups B01D 61/24 and B01D 61/243. Groups B01D 61/24, B01D 61/243 and B01D 61/244 should be considered in order to perform a complete search.
N	B01D61/246		Group B01D 61/246 is impacted by reclassification into group B01D 61/2461. Groups B01D 61/246 and B01D 61/2461 should be considered in order to perform a complete search.
N	B01D61/2461		Group B01D 61/2461 is incomplete pending reclassification of documents from groups B01D 61/24 and B01D 61/246. Groups B01D 61/24, B01D 61/246 and B01D 61/2461 should be considered in order to perform a complete search.
N	B01D61/36		Group B01D 61/36 is impacted by reclassification into groups B01D 61/363, B01D 61/3631, B01D 61/365 and B01D 61/3651. All groups listed in this Warning should be considered in order to perform a complete search.
N	B01D61/362		Group B01D 61/362 is impacted by reclassification into group B01D 61/3621. Groups B01D 61/362 and B01D 61/3621 should be considered in order to perform a complete search.



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N	B01D61/3621		Group B01D 61/3621 is incomplete pending reclassification of documents from group B01D 61/362. Groups B01D 61/362 and B01D 61/3621 should be considered in order to perform a complete search.
N	B01D61/363		Groups B01D 61/363 and B01D 61/3631 are incomplete pending reclassification of documents from group B01D 61/36. Groups B01D 61/36, B01D 61/363 and B01D 61/3631 should be considered in order to perform a complete search.
N	B01D61/364		Group B01D 61/364 is impacted by reclassification into group B01D 61/3641. Groups B01D 61/364 and B01D 61/3641 should be considered in order to perform a complete search.
N	B01D61/3641		Group B01D 61/3641 is incomplete pending reclassification of documents from group B01D 61/364. Groups B01D 61/364 and B01D 61/3641 should be considered in order to perform a complete search.
N	B01D61/365		Groups B01D 61/365 and B01D 61/3651 are incomplete pending reclassification of documents from group B01D 61/36. Groups B01D 61/36, B01D 61/365 and B01D 61/3651 should be considered in order to perform a complete search.
N	B01D61/42		Group B01D 61/42 is impacted by reclassification into groups B01D 61/423, B01D 61/4251, B01D 61/4271, B01D 61/428 and B01D 61/4281. All groups listed in this Warning should be considered in order to perform a complete search.
N	B01D61/422		Group B01D 61/422 is impacted by reclassification into group B01D 61/423. Groups B01D 61/422 and B01D 61/423 should be considered in order to perform a complete search.
N	B01D61/423		Group B01D 61/423 is incomplete pending reclassification of documents from groups B01D 61/42 and B01D 61/422. Groups B01D 61/42, B01D 61/422 and B01D 61/423 should be considered in order to perform a complete search.
N	B01D61/425		Group B01D 61/425 is impacted by reclassification into group B01D 61/4251. Groups B01D 61/425 and B01D 61/4251 should be considered in order to perform a complete search.
N	B01D61/4251		Group B01D 61/4251 is incomplete pending reclassification of documents from groups B01D 61/42 and B01D 61/425. Groups B01D 61/42, B01D 61/425 and B01D 61/4251 should be considered in order to perform a complete search.
N	B01D61/427		Group B01D 61/427 is impacted by reclassification into group B01D 61/4271. Groups B01D 61/427 and B01D 61/4271 should be considered in order to perform a complete search.
N	B01D61/4271		Group B01D 61/4271 is incomplete pending reclassification of documents from groups B01D 61/42 and B01D 61/427. Groups B01D 61/42, B01D 61/427 and B01D 61/4271 should be considered in order to perform a complete search.

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N	B01D61/428		Groups B01D 61/428 and B01D 61/4281 are incomplete pending reclassification of documents from group B01D 61/42. Groups B01D 61/42, B01D 61/428 and B01D 61/4281 should be considered in order to perform a complete search.
N	B01D61/46		Group B01D 61/46 is impacted by reclassification into groups B01D 61/461, B01D 61/462, B01D 61/463, B01D 61/464, B01D 61/465, B01D 61/466, B01D 61/467 and B01D 61/468. All groups listed in this Warning should be considered in order to perform a complete search.
N	B01D61/461		Group B01D 61/461 is incomplete pending reclassification of documents from group B01D 61/46. Groups B01D 61/46 and B01D 61/461 should be considered in order to perform a complete search.
N	B01D61/462		Group B01D 61/462 is incomplete pending reclassification of documents from group B01D 61/46. Groups B01D 61/46 and B01D 61/462 should be considered in order to perform a complete search.
N	B01D61/463		Group B01D 61/463 is incomplete pending reclassification of documents from group B01D 61/46. Groups B01D 61/46 and B01D 61/463 should be considered in order to perform a complete search.
N	B01D61/464		Group B01D 61/464 is incomplete pending reclassification of documents from group B01D 61/46. Groups B01D 61/46 and B01D 61/464 should be considered in order to perform a complete search.
N	B01D61/465		Group B01D 61/465 is incomplete pending reclassification of documents from group B01D 61/46. Groups B01D 61/46 and B01D 61/465 should be considered in order to perform a complete search.
N	B01D61/466		Group B01D 61/466 is incomplete pending reclassification of documents from group B01D 61/46. Groups B01D 61/46 and B01D 61/466 should be considered in order to perform a complete search.
N	B01D61/467		Group B01D 61/467 is incomplete pending reclassification of documents from group B01D 61/46. Groups B01D 61/46 and B01D 61/467 should be considered in order to perform a complete search.
N	B01D61/468		Group B01D 61/468 is incomplete pending reclassification of documents from group B01D 61/46. Groups B01D 61/46 and B01D 61/468 should be considered in order to perform a complete search.
N	B01D63/02		Group B01D 63/02 is impacted by reclassification into groups B01D 63/031, B01D 63/032, B01D 63/033 and B01D 63/034.

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			All groups listed in this Warning should be considered in order to perform a complete search.
N	B01D63/021		Group B01D 63/021 is impacted by reclassification into groups B01D 63/0231, B01D 63/0232 and B01D 63/0233. All groups listed in this Warning should be considered in order to perform a complete search.
N	B01D63/022		Group B01D 63/022 is impacted by reclassification into groups B01D 63/0221, B01D 63/0222, B01D 63/0223, B01D 63/0224 and B01D 63/0225. All groups listed in this Warning should be considered in order to perform a complete search.
N	B01D63/0221		Group B01D 63/0221 is incomplete pending reclassification of documents from group B01D 63/022. Groups B01D 63/022 and B01D 63/0221 should be considered in order to perform a complete search.
N	B01D63/0222		Group B01D 63/0222 is incomplete pending reclassification of documents from group B01D 63/022. Groups B01D 63/022 and B01D 63/0222 should be considered in order to perform a complete search.
N	B01D63/0223		Group B01D 63/0223 is incomplete pending reclassification of documents from group B01D 63/022. Groups B01D 63/022 and B01D 63/0223 should be considered in order to perform a complete search.
N	B01D63/0224		Group B01D 63/0224 is incomplete pending reclassification of documents from group B01D 63/022. Groups B01D 63/022 and B01D 63/0224 should be considered in order to perform a complete search.
N	B01D63/0225		Group B01D 63/0225 is incomplete pending reclassification of documents from group B01D 63/022. Groups B01D 63/022 and B01D 63/0225 should be considered in order to perform a complete search.
N	B01D63/0231		Group B01D 63/0231 is incomplete pending reclassification of documents from group B01D 63/021. Groups B01D 63/021 and B01D 63/0231 should be considered in order to perform a complete search.
N	B01D63/0232		Group B01D 63/0232 is incomplete pending reclassification of documents from group B01D 63/021. Groups B01D 63/021 and B01D 63/0232 should be considered in order to perform a complete search.
N	B01D63/0233		Group B01D 63/0233 is incomplete pending reclassification of documents from group B01D 63/021. Groups B01D 63/021 and B01D 63/0233 should be considered in order to perform a complete search.

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N	B01D63/024		Group B01D 63/024 is impacted by reclassification into group B01D 63/0241. Groups B01D 63/024 and B01D 63/0241 should be considered in order to perform a complete search.
N	B01D63/0241		Group B01D 63/0241 is incomplete pending reclassification of documents from group B01D 63/024. Groups B01D 63/024 and B01D 63/0241 should be considered in order to perform a complete search.
N	B01D63/031		Group B01D 63/031 is incomplete pending reclassification of documents from group B01D 63/02. Groups B01D 63/02 and B01D 63/031 should be considered in order to perform a complete search.
N	B01D63/032		Group B01D 63/032 is incomplete pending reclassification of documents from group B01D 63/02. Groups B01D 63/02 and B01D 63/032 should be considered in order to perform a complete search.
N	B01D63/033		Group B01D 63/033 is incomplete pending reclassification of documents from group B01D 63/02. Groups B01D 63/02 and B01D 63/033 should be considered in order to perform a complete search.
N	B01D63/034		Group B01D 63/034 is incomplete pending reclassification of documents from group B01D 63/02. Groups B01D 63/02 and B01D 63/034 should be considered in order to perform a complete search.
N	B01D63/06		Group B01D 63/06 is impacted by reclassification into group B01D 63/069. Groups B01D 63/06 and B01D 63/069 should be considered in order to perform a complete search.
N	B01D63/069		Group B01D 63/069 is incomplete pending reclassification of documents from group B01D 63/06. Groups B01D 63/06 and B01D 63/069 should be considered in order to perform a complete search.
N	B01D63/08		Group B01D 63/08 is impacted by reclassification into group B01D 63/089. Groups B01D 63/08 and B01D 63/089 should be considered in order to perform a complete search.
N	B01D63/082		Group B01D 63/082 is impacted by reclassification into groups B01D 63/0821 and B01D 63/0822. Groups B01D 63/082, B01D 63/0821 and B01D 63/0822 should be considered in order to perform a complete search.
N	B01D63/0821		Group B01D 63/0821 is incomplete pending reclassification of documents from group B01D 63/082. Groups B01D 63/082 and B01D 63/0821 should be considered in order to perform a complete search.
N	B01D63/0822		Group B01D 63/0822 is incomplete pending reclassification of documents from group B01D 63/082. Groups B01D 63/082 and

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			B01D 63/0822 should be considered in order to perform a complete search.
N	B01D63/089		Group B01D 63/089 is incomplete pending reclassification of documents from group B01D 63/08. Groups B01D 63/08 and B01D 63/089 should be considered in order to perform a complete search.
N	B01D63/10		Group B01D 63/10 is impacted by reclassification into groups B01D 63/101 and B01D 63/107. Groups B01D 63/10, B01D 63/101 and B01D 63/107 should be considered in order to perform a complete search.
N	B01D63/101		Group B01D 63/101 is incomplete pending reclassification of documents from group B01D 63/10. Groups B01D 63/10 and B01D 63/101 should be considered in order to perform a complete search.
N	B01D63/103		Group B01D 63/103 is impacted by reclassification into group B01D 63/1031. Groups B01D 63/103 and B01D 63/1031 should be considered in order to perform a complete search.
N	B01D63/1031		Group B01D 63/1031 is incomplete pending reclassification of documents from group B01D 63/103. Groups B01D 63/103 and B01D 63/1031 should be considered in order to perform a complete search.
N	B01D63/107		Group B01D 63/107 is incomplete pending reclassification of documents from group B01D 63/10. Groups B01D 63/10 and B01D 63/107 should be considered in order to perform a complete search.
D	B01D65/04	Group B01D 65/04 is no longer used for classification of new documents as from November 1st, 2007. Documents presently classified in this group are in the process of reclassification	<u>Delete</u> the entire Warning.
D	B01D65/06	Group B01D 65/06 is no longer used for classification of new document as from November 1st, 2007. Documents	<u>Delete</u> the entire Warning.

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		presently classified in this group are in the process of reclassification	
N	B01D65/10		Group B01D 65/10 is impacted by reclassification into group B01D 65/109. Groups B01D 65/10 and B01D 65/109 should be considered in order to perform a complete search.
N	B01D65/109		Group B01D 65/109 is incomplete pending reclassification of documents from group B01D 65/10. Groups B01D 65/10 and B01D 65/109 should be considered in order to perform a complete search.
N	B01D67/0004		Group B01D 67/0004 is impacted by reclassification into groups B01D 67/00041, B01D 67/00042, B01D 67/00043, B01D 67/00044, B01D 67/00045 and B01D 67/00046. All groups listed in this Warning should be considered in order to perform a complete search.
N	B01D67/00041		Group B01D 67/00041 is incomplete pending reclassification of documents from group B01D 67/0004. Groups B01D 67/0004 and B01D 67/00041 should be considered in order to perform a complete search.
N	B01D67/00042		Group B01D 67/00042 is incomplete pending reclassification of documents from group B01D 67/0004. Groups B01D 67/0004 and B01D 67/00042 should be considered in order to perform a complete search.
N	B01D67/00043		Group B01D 67/00043 is incomplete pending reclassification of documents from group B01D 67/0004. Groups B01D 67/0004 and B01D 67/00043 should be considered in order to perform a complete search.
N	B01D67/00044		Group B01D 67/00044 is incomplete pending reclassification of documents from group B01D 67/0004. Groups B01D 67/0004 and B01D 67/00044 should be considered in order to perform a complete search.
N	B01D67/00045		Group B01D 67/00045 is incomplete pending reclassification of documents from group B01D 67/0004. Groups B01D 67/0004 and B01D 67/00045 should be considered in order to perform a complete search.
N	B01D67/00046		Group B01D 67/00046 is incomplete pending reclassification of documents from group B01D 67/0004. Groups B01D 67/0004 and B01D 67/00046 should be considered in order to perform a complete search.
N	B01D67/0009		Group B01D 67/0009 is impacted by reclassification into group B01D 67/00091. Groups B01D 67/0009 and B01D 67/00091 should be considered in order to perform a complete search.

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N	B01D67/00091		Group B01D 67/00091 is incomplete pending reclassification of documents from group B01D 67/0009. Groups B01D 67/0009 and B01D 67/00091 should be considered in order to perform a complete search.
N	B01D67/0011		Group B01D 67/0011 is impacted by reclassification into groups B01D 67/00111 and B01D 67/00113. Groups B01D 67/0011, B01D 67/00111 and B01D 67/00113 should be considered in order to perform a complete search.
N	B01D67/00111		Group B01D 67/00111 is incomplete pending reclassification of documents from group B01D 67/0011. Groups B01D 67/0011 and B01D 67/00111 should be considered in order to perform a complete search.
N	B01D67/00113		Group B01D 67/00113 is incomplete pending reclassification of documents from group B01D 67/0011. Groups B01D 67/0011 and B01D 67/00113 should be considered in order to perform a complete search.
N	B01D67/0013		Group B01D 67/0013 is impacted by reclassification into group B01D 67/00135. Groups B01D 67/0013 and B01D 67/00135 should be considered in order to perform a complete search.
N	B01D67/00135		Group B01D 67/00135 is incomplete pending reclassification of documents from group B01D 67/0013. Groups B01D 67/0013 and B01D 67/00135 should be considered in order to perform a complete search.
N	B01D67/0016		Group B01D 67/0016 is impacted by reclassification into group B01D 67/00165. Groups B01D 67/0016 and B01D 67/00165 should be considered in order to perform a complete search.
N	B01D67/00165		Group B01D 67/00165 is incomplete pending reclassification of documents from group B01D 67/0016. Groups B01D 67/0016 and B01D 67/00165 should be considered in order to perform a complete search.
N	B01D67/003		Group B01D 67/003 is impacted by reclassification into group B01D 67/0031. Groups B01D 67/003 and B01D 67/0031 should be considered in order to perform a complete search.
N	B01D67/0031		Group B01D 67/0031 is incomplete pending reclassification of documents from group B01D 67/003. Groups B01D 67/003 and B01D 67/0031 should be considered in order to perform a complete search.
N	B01D67/0039		Group B01D 67/0039 is impacted by reclassification into group B01D 67/0049. Groups B01D 67/0039 and B01D 67/0049 should be considered in order to perform a complete search.
N	B01D67/0041		Group B01D 67/0041 is impacted by reclassification into groups B01D 67/00411, B01D 67/00412, B01D 67/00413, B01D 67/00414, B01D 67/00415 and B01D 67/00416. All groups

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			listed in this Warning should be considered in order to perform a complete search.
N	B01D67/00411		Group B01D 67/00411 is incomplete pending reclassification of documents from group B01D 67/0041. Groups B01D 67/0041 and B01D 67/00411 should be considered in order to perform a complete search.
N	B01D67/00412		Group B01D 67/00412 is incomplete pending reclassification of documents from group B01D 67/0041. Groups B01D 67/0041 and B01D 67/00412 should be considered in order to perform a complete search.
N	B01D67/00413		Group B01D 67/00413 is incomplete pending reclassification of documents from group B01D 67/0041. Groups B01D 67/0041 and B01D 67/00413 should be considered in order to perform a complete search.
N	B01D67/00414		Group B01D 67/00414 is incomplete pending reclassification of documents from group B01D 67/0041. Groups B01D 67/0041 and B01D 67/00414 should be considered in order to perform a complete search.
N	B01D67/00415		Group B01D 67/00415 is incomplete pending reclassification of documents from group B01D 67/0041. Groups B01D 67/0041 and B01D 67/00415 should be considered in order to perform a complete search.
N	B01D67/00416		Group B01D 67/00416 is incomplete pending reclassification of documents from group B01D 67/0041. Groups B01D 67/0041 and B01D 67/00416 should be considered in order to perform a complete search.
N	B01D67/0049		Group B01D 67/0049 is incomplete pending reclassification of documents from group B01D 67/0039. Groups B01D 67/0039 and B01D 67/0049 should be considered in order to perform a complete search.
N	B01D67/0079		Group B01D 67/0079 is impacted by reclassification into groups B01D 67/00791 and B01D 67/00793. Groups B01D 67/0079, B01D 67/00791 and B01D 67/00793 should be considered in order to perform a complete search.
N	B01D67/00791		Group B01D 67/00791 is incomplete pending reclassification of documents from group B01D 67/0079. Groups B01D 67/0079 and B01D 67/00791 should be considered in order to perform a complete search.
N	B01D67/00793		Group B01D 67/00793 is incomplete pending reclassification of documents from group B01D 67/0079. Groups B01D 67/0079 and B01D 67/00793 should be considered in order to perform a complete search.
N	B01D67/0093		Group B01D 67/0093 is impacted by reclassification into groups B01D 67/00931 and B01D 67/00933. Groups B01D 67/0093,



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			B01D 67/00931 and B01D 67/00933 should be considered in order to perform a complete search.
N	B01D67/00931		Group B01D 67/00931 is incomplete pending reclassification of documents from group B01D 67/0093. Groups B01D 67/0093 and B01D 67/00931 should be considered in order to perform a complete search.
N	B01D67/00933		Group B01D 67/00933 is incomplete pending reclassification of documents from group B01D 67/0093. Groups B01D 67/0093 and B01D 67/00933 should be considered in order to perform a complete search.
N	B01D69/06		Group B01D 69/06 is impacted by reclassification into group B01D 69/061. Groups B01D 69/06 and B01D 69/061 should be considered in order to perform a complete search.
N	B01D69/061		Group B01D 69/061 is incomplete pending reclassification of documents from group B01D 69/06. Groups B01D 69/06 and B01D 69/061 should be considered in order to perform a complete search.
N	B01D69/087		Group B01D 69/087 is impacted by reclassification into group B01D 69/0871. Groups B01D 69/087 and B01D 69/0871 should be considered in order to perform a complete search.
N	B01D69/0871		Group B01D 69/0871 is incomplete pending reclassification of documents from group B01D 69/087. Groups B01D 69/087 and B01D 69/0871 should be considered in order to perform a complete search.
N	B01D69/10		Group B01D 69/10 is impacted by reclassification into groups B01D 69/106, B01D 69/107, B01D 69/1071 and B01D 69/108. All groups listed in this Warning should be considered in order to perform a complete search.
N	B01D69/106		Group B01D 69/106 is incomplete pending reclassification of documents from group B01D 69/10. Groups B01D 69/10 and B01D 69/106 should be considered in order to perform a complete search.
N	B01D69/107		Groups B01D 69/107 and B01D 69/1071 are incomplete pending reclassification of documents from group B01D 69/10. Groups B01D 69/10, B01D 69/107 and B01D 69/1071 should be considered in order to perform a complete search.
N	B01D69/108		Group B01D 69/108 is incomplete pending reclassification of documents from group B01D 69/10. Groups B01D 69/10 and B01D 69/108 should be considered in order to perform a complete search.
N	B01D69/12		Group B01D 69/12 is impacted by reclassification into groups B01D 69/1212, B01D 69/1213, B01D 69/1214, B01D 69/1216 and B01D 69/1218. All groups listed in this Warning should be considered in order to perform a complete search.

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N	B01D69/1212		Group B01D 69/1212 is incomplete pending reclassification of documents from group B01D 69/12. Groups B01D 69/12 and B01D 69/1212 should be considered in order to perform a complete search.
N	B01D69/1213		Group B01D 69/1213 is incomplete pending reclassification of documents from group B01D 69/12. Groups B01D 69/12 and B01D 69/1213 should be considered in order to perform a complete search.
N	B01D69/1214		Group B01D 69/1214 is incomplete pending reclassification of documents from group B01D 69/12. Groups B01D 69/12 and B01D 69/1214 should be considered in order to perform a complete search.
N	B01D69/1216		Group B01D 69/1216 is incomplete pending reclassification of documents from group B01D 69/12. Groups B01D 69/12 and B01D 69/1216 should be considered in order to perform a complete search.
N	B01D69/1218		Group B01D 69/1218 is incomplete pending reclassification of documents from group B01D 69/12. Groups B01D 69/12 and B01D 69/1218 should be considered in order to perform a complete search.
N	B01D69/125		Group B01D 69/125 is impacted by reclassification into group B01D 69/1251. Groups B01D 69/125 and B01D 69/1251 should be considered in order to perform a complete search.
N	B01D69/1251		Group B01D 69/1251 is incomplete pending reclassification of documents from group B01D 69/125. Groups B01D 69/125 and B01D 69/1251 should be considered in order to perform a complete search.
N	B01D69/141		Group B01D 69/141 is impacted by reclassification into groups B01D 69/1411 and B01D 69/14111. Groups B01D 69/141, B01D 69/1411 and B01D 69/14111 should be considered in order to perform a complete search.
N	B01D69/1411		Groups B01D 69/1411 and B01D 69/14111 are incomplete pending reclassification of documents from group B01D 69/141. Groups B01D 69/141, B01D 69/1411 and B01D 69/14111 should be considered in order to perform a complete search.
N	B01D71/02		Group B01D 71/02 is impacted by reclassification into groups B01D 71/0213, B01D 71/0215 and B01D 71/05. All groups listed in this Warning should be considered in order to perform a complete search.
N	B01D71/021		Group B01D 71/021 is impacted by reclassification into groups B01D 71/0211 and B01D 71/0212. Groups B01D 71/021, B01D 71/0211 and B01D 71/0212 should be considered in order to perform a complete search.

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N	B01D71/0211		Group B01D 71/0211 is incomplete pending reclassification of documents from group B01D 71/021. Groups B01D 71/021 and B01D 71/0211 should be considered in order to perform a complete search.
N	B01D71/0212		Group B01D 71/0212 is incomplete pending reclassification of documents from group B01D 71/021. Groups B01D 71/021 and B01D 71/0212 should be considered in order to perform a complete search.
N	B01D71/0213		Group B01D 71/0213 is incomplete pending reclassification of documents from group B01D 71/02. Groups B01D 71/02 and B01D 71/0213 should be considered in order to perform a complete search.
N	B01D71/0215		Group B01D 71/0215 is incomplete pending reclassification of documents from group B01D 71/02. Groups B01D 71/02 and B01D 71/0215 should be considered in order to perform a complete search.
N	B01D71/022		Group B01D 71/022 is impacted by reclassification into groups B01D 71/0221, B01D 71/0223, B01D 71/02231, B01D 71/02232 and B01D 71/0227. All groups listed in this Warning should be considered in order to perform a complete search.
N	B01D71/0221		Group B01D 71/0221 is incomplete pending reclassification of documents from group B01D 71/022. Groups B01D 71/022 and B01D 71/0221 should be considered in order to perform a complete search.
N	B01D71/0223		Groups B01D 71/0223 - B01D 71/02232 are incomplete pending reclassification of documents from group B01D 71/022. All groups listed in this Warning should be considered in order to perform a complete search.
N	B01D71/0227		Group B01D 71/0227 is incomplete pending reclassification of documents from group B01D 71/022. Groups B01D 71/022 and B01D 71/0227 should be considered in order to perform a complete search.
N	B01D71/024		Group B01D 71/024 is impacted by reclassification into group B01D 71/0271. Groups B01D 71/024 and B01D 71/0271 should be considered in order to perform a complete search.
N	B01D71/0271		Group B01D 71/0271 is incomplete pending reclassification of documents from group B01D 71/024. Groups B01D 71/024 and B01D 71/0271 should be considered in order to perform a complete search.
N	B01D71/028		Group B01D 71/028 is impacted by reclassification into group B01D 71/0281. Groups B01D 71/028 and B01D 71/0281 should be considered in order to perform a complete search.
N	B01D71/0281		Group B01D 71/0281 is incomplete pending reclassification of documents from group B01D 71/028. Groups B01D 71/028 and

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			B01D 71/0281 should be considered in order to perform a complete search.
N	B01D71/05		Group B01D 71/05 is incomplete pending reclassification of documents from group B01D 71/02. Groups B01D 71/02 and B01D 71/05 should be considered in order to perform a complete search.
N	B01D71/26		Group B01D 71/26 is impacted by reclassification into groups B01D 71/261 and B01D 71/262. Groups B01D 71/26, B01D 71/261 and B01D 71/262 should be considered in order to perform a complete search.
N	B01D71/261		Group B01D 71/261 is incomplete pending reclassification of documents from group B01D 71/26. Groups B01D 71/26 and B01D 71/261 should be considered in order to perform a complete search.
N	B01D71/262		Group B01D 71/262 is incomplete pending reclassification of documents from group B01D 71/26. Groups B01D 71/26 and B01D 71/262 should be considered in order to perform a complete search.
N	B01D71/28		Group B01D 71/28 is impacted by reclassification into groups B01D 71/281, B01D 71/282 and B01D 71/283. All groups listed in this Warning should be considered in order to perform a complete search.
N	B01D71/281		Group B01D 71/281 is incomplete pending reclassification of documents from group B01D 71/28. Groups B01D 71/28 and B01D 71/281 should be considered in order to perform a complete search.
N	B01D71/282		Group B01D 71/282 is incomplete pending reclassification of documents from group B01D 71/28. Groups B01D 71/28 and B01D 71/282 should be considered in order to perform a complete search.
N	B01D71/283		Group B01D 71/283 is incomplete pending reclassification of documents from group B01D 71/28. Groups B01D 71/28 and B01D 71/283 should be considered in order to perform a complete search.
N	B01D71/30		Group B01D 71/30 is impacted by reclassification into group B01D 71/301. Groups B01D 71/30 and B01D 71/301 should be considered in order to perform a complete search.
N	B01D71/301		Group B01D 71/301 is incomplete pending reclassification of documents from group B01D 71/30. Groups B01D 71/30 and B01D 71/301 should be considered in order to perform a complete search.
N	B01D71/38		Group B01D 71/38 is impacted by reclassification into groups B01D 71/381, B01D 71/382 and B01D 71/383. All groups listed

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			in this Warning should be considered in order to perform a complete search.
N	B01D71/381		Group B01D 71/381 is incomplete pending reclassification of documents from group B01D 71/38. Groups B01D 71/38 and B01D 71/381 should be considered in order to perform a complete search.
N	B01D71/382		Group B01D 71/382 is incomplete pending reclassification of documents from group B01D 71/38. Groups B01D 71/38 and B01D 71/382 should be considered in order to perform a complete search.
N	B01D71/383		Group B01D 71/383 is incomplete pending reclassification of documents from group B01D 71/38. Groups B01D 71/38 and B01D 71/383 should be considered in order to perform a complete search.
N	B01D71/40		Group B01D 71/40 is impacted by reclassification into groups B01D 71/401, B01D 71/4011, B01D 71/402, B01D 71/403 and B01D 71/404. All groups listed in this Warning should be considered in order to perform a complete search.
N	B01D71/401		Groups B01D 71/401 and B01D 71/4011 are incomplete pending reclassification of documents from group B01D 71/40. Groups B01D 71/40, B01D 71/401 and B01D 71/4011 should be considered in order to perform a complete search.
N	B01D71/402		Group B01D 71/402 is incomplete pending reclassification of documents from group B01D 71/40. Groups B01D 71/40 and B01D 71/402 should be considered in order to perform a complete search.
N	B01D71/403		Group B01D 71/403 is incomplete pending reclassification of documents from group B01D 71/40. Groups B01D 71/40 and B01D 71/403 should be considered in order to perform a complete search.
N	B01D71/404		Group B01D 71/404 is incomplete pending reclassification of documents from group B01D 71/40. Groups B01D 71/40 and B01D 71/404 should be considered in order to perform a complete search.
N	B01D71/42		Group B01D 71/42 is impacted by reclassification into group B01D 71/421. Groups B01D 71/42 and B01D 71/421 should be considered in order to perform a complete search.
N	B01D71/421		Group B01D 71/421 is incomplete pending reclassification of documents from group B01D 71/42. Groups B01D 71/42 and B01D 71/421 should be considered in order to perform a complete search.
N	B01D71/44		Group B01D 71/44 is impacted by reclassification into group B01D 71/441. Groups B01D 71/44 and B01D 71/441 should be considered in order to perform a complete search.

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N	B01D71/441		Group B01D 71/441 is incomplete pending reclassification of documents from group B01D 71/44. Groups B01D 71/44 and B01D 71/441 should be considered in order to perform a complete search.
N	B01D71/48		Group B01D 71/48 is impacted by reclassification into group B01D 71/481. Groups B01D 71/48 and B01D 71/481 should be considered in order to perform a complete search.
N	B01D71/481		Group B01D 71/481 is incomplete pending reclassification of documents from group B01D 71/48. Groups B01D 71/48 and B01D 71/481 should be considered in order to perform a complete search.
N	B01D71/52		Group B01D 71/52 is impacted by reclassification into groups B01D 71/521, B01D 71/5211, B01D 71/522, B01D 71/5221, B01D 71/5222 and B01D 71/5223. All groups listed in this Warning should be considered in order to perform a complete search.
N	B01D71/521		Groups B01D 71/521 and B01D 71/5211 are incomplete pending reclassification of documents from group B01D 71/52. Groups B01D 71/52, B01D 71/521 and B01D 71/5211 should be considered in order to perform a complete search.
N	B01D71/522		Groups B01D 71/522 - B01D 71/5223 are incomplete pending reclassification of documents from group B01D 71/52. All groups listed in this Warning should be considered in order to perform a complete search.
N	B01D71/60		Group B01D 71/60 is impacted by reclassification into group B01D 71/601. Groups B01D 71/60 and B01D 71/601 should be considered in order to perform a complete search.
N	B01D71/601		Group B01D 71/601 is incomplete pending reclassification of documents from group B01D 71/60. Groups B01D 71/60 and B01D 71/601 should be considered in order to perform a complete search.
N	B01D71/64		Group B01D 71/64 is impacted by reclassification into groups B01D 71/641, B01D 71/642 and B01D 71/643. All groups listed in this Warning should be considered in order to perform a complete search.
N	B01D71/641		Group B01D 71/641 is incomplete pending reclassification of documents from group B01D 71/64. Groups B01D 71/64 and B01D 71/641 should be considered in order to perform a complete search.
N	B01D71/642		Group B01D 71/642 is incomplete pending reclassification of documents from group B01D 71/64. Groups B01D 71/64 and B01D 71/642 should be considered in order to perform a complete search.

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N	B01D71/643		Group B01D 71/643 is incomplete pending reclassification of documents from group B01D 71/64. Groups B01D 71/64 and B01D 71/643 should be considered in order to perform a complete search.
N	B01D71/66		Group B01D 71/66 is impacted by reclassification into group B01D 71/69. Groups B01D 71/66 and B01D 71/69 should be considered in order to perform a complete search.
N	B01D71/69		Group B01D 71/69 is incomplete pending reclassification of documents from group B01D 71/66. Groups B01D 71/66 and B01D 71/69 should be considered in order to perform a complete search.
N	B01D71/70		Group B01D 71/70 is impacted by reclassification into groups B01D 71/701 and B01D 71/702. Groups B01D 71/70, B01D 71/701 and B01D 71/702 should be considered in order to perform a complete search.
N	B01D71/701		Group B01D 71/701 is incomplete pending reclassification of documents from group B01D 71/70. Groups B01D 71/70 and B01D 71/701 should be considered in order to perform a complete search.
N	B01D71/702		Group B01D 71/702 is incomplete pending reclassification of documents from group B01D 71/70. Groups B01D 71/70 and B01D 71/702 should be considered in order to perform a complete search.
N	B01D2311/103		Group B01D 2311/103 is impacted by reclassification into groups B01D 2311/1031 and B01D 2311/1032. Groups B01D 2311/103, B01D 2311/1031 and B01D 2311/1032 should be considered in order to perform a complete search.
N	B01D2311/1031		Group B01D 2311/1031 is incomplete pending reclassification of documents from group B01D 2311/103. Groups B01D 2311/103 and B01D 2311/1031 should be considered in order to perform a complete search.
N	B01D2311/1032		Group B01D 2311/1032 is incomplete pending reclassification of documents from group B01D 2311/103. Groups B01D 2311/103 and B01D 2311/1032 should be considered in order to perform a complete search.
N	B01D2311/106		Group B01D 2311/106 is impacted by reclassification into group B01D 2311/1061. Groups B01D 2311/106 and B01D 2311/1061 should be considered in order to perform a complete search.
N	B01D2311/1061		Group B01D 2311/1061 is incomplete pending reclassification of documents from group B01D 2311/106. Groups B01D 2311/106 and B01D 2311/1061 should be considered in order to perform a complete search.
N	B01D2311/25		Group B01D 2311/25 is impacted by reclassification into groups B01D 2311/251, B01D 2311/2512, B01D 2311/2513, B01D

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			2311/252, B01D 2311/2521, B01D 2311/2523, B01D 2311/253, B01D 2311/2531 and B01D 2311/2532. All groups listed in this Warning should be considered in order to perform a complete search.
N	B01D2311/251		Groups B01D 2311/251 - B01D 2311/2513 are incomplete pending reclassification of documents from group B01D 2311/25. All groups listed in this Warning should be considered in order to perform a complete search.
N	B01D2311/252		Groups B01D 2311/252 - B01D 2311/2523 are incomplete pending reclassification of documents from group B01D 2311/25. All groups listed in this Warning should be considered in order to perform a complete search.
N	B01D2311/253		Groups B01D 2311/253 - B01D 2311/2532 are incomplete pending reclassification of documents from group B01D 2311/25. All groups listed in this Warning should be considered in order to perform a complete search.
N	B01D2311/26		Group B01D 2311/26 is impacted by reclassification into groups B01D 2311/2643, B01D 2311/2674, B01D 2311/2697, B01D 2311/2698 and B01D 2311/2699. All groups listed in this Warning should be considered in order to perform a complete search.
N	B01D2311/2643		Group B01D 2311/2643 is incomplete pending reclassification of documents from group B01D 2311/26. Groups B01D 2311/26 and B01D 2311/2643 should be considered in order to perform a complete search.
N	B01D2311/2674		Group B01D 2311/2674 is incomplete pending reclassification of documents from group B01D 2311/26. Groups B01D 2311/26 and B01D 2311/2674 should be considered in order to perform a complete search.
N	B01D2311/2697		Group B01D 2311/2697 is incomplete pending reclassification of documents from group B01D 2311/26. Groups B01D 2311/26 and B01D 2311/2697 should be considered in order to perform a complete search.
N	B01D2311/2698		Group B01D 2311/2698 is incomplete pending reclassification of documents from group B01D 2311/26. Groups B01D 2311/26 and B01D 2311/2698 should be considered in order to perform a complete search.
N	B01D2311/2699		Group B01D 2311/2699 is incomplete pending reclassification of documents from group B01D 2311/26. Groups B01D 2311/26 and B01D 2311/2699 should be considered in order to perform a complete search.
N	B01D2313/00		Group B01D 2313/00 is impacted by reclassification into groups B01D 2313/60, B01D 2313/62, B01D 2313/64, B01D 2313/66, B01D 2313/68, B01D 2313/70, B01D 2313/701 and B01D



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			2313/702. All groups listed in this Warning should be considered in order to perform a complete search.
N	B01D2313/04		Group B01D 2313/04 is impacted by reclassification into groups B01D 2313/041 and B01D 2313/042. Groups B01D 2313/04, B01D 2313/041 and B01D 2313/042 should be considered in order to perform a complete search.
N	B01D2313/041		Group B01D 2313/041 is incomplete pending reclassification of documents from group B01D 2313/04. Groups B01D 2313/04 and B01D 2313/041 should be considered in order to perform a complete search.
N	B01D2313/042		Group B01D 2313/042 is incomplete pending reclassification of documents from group B01D 2313/04. Groups B01D 2313/04 and B01D 2313/042 should be considered in order to perform a complete search.
N	B01D2313/13		Group B01D 2313/13 is impacted by reclassification into group B01D 2313/131. Groups B01D 2313/13 and B01D 2313/131 should be considered in order to perform a complete search.
N	B01D2313/131		Group B01D 2313/131 is incomplete pending reclassification of documents from group B01D 2313/13. Groups B01D 2313/13 and B01D 2313/131 should be considered in order to perform a complete search.
N	B01D2313/20		Group B01D 2313/20 is impacted by reclassification into groups B01D 2313/201, B01D 2313/2011, B01D 2313/203, B01D 2313/2031, B01D 2313/205, B01D 2313/206, B01D 2313/2061, B01D 2313/2062 and B01D 2313/208. All groups listed in this Warning should be considered in order to perform a complete search.
N	B01D2313/201		Groups B01D 2313/201 and B01D 2313/2011 are incomplete pending reclassification of documents from group B01D 2313/20. Groups B01D 2313/20, B01D 2313/201 and B01D 2313/2011 should be considered in order to perform a complete search.
N	B01D2313/203		Groups B01D 2313/203 and B01D 2313/2031 are incomplete pending reclassification of documents from group B01D 2313/20. Groups B01D 2313/20, B01D 2313/203 and B01D 2313/2031 should be considered in order to perform a complete search.
N	B01D2313/205		Group B01D 2313/205 is incomplete pending reclassification of documents from group B01D 2313/20. Groups B01D 2313/20 and B01D 2313/205 should be considered in order to perform a complete search.
N	B01D2313/206		Groups B01D 2313/206 - B01D 2313/2062 are incomplete pending reclassification of documents from group B01D

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			2313/20. All groups listed in this Warning should be considered in order to perform a complete search.
N	B01D2313/208		Group B01D 2313/208 is incomplete pending reclassification of documents from group B01D 2313/20. Groups B01D 2313/20 and B01D 2313/208 should be considered in order to perform a complete search.
N	B01D2313/22		Group B01D 2313/22 is impacted by reclassification into group B01D 2313/221. Groups B01D 2313/22 and B01D 2313/221 should be considered in order to perform a complete search.
N	B01D2313/221		Group B01D 2313/221 is incomplete pending reclassification of documents from group B01D 2313/22. Groups B01D 2313/22 and B01D 2313/221 should be considered in order to perform a complete search.
N	B01D2313/36		Group B01D 2313/36 is impacted by reclassification into group B01D 2313/367. Groups B01D 2313/36 and B01D 2313/367 should be considered in order to perform a complete search.
N	B01D2313/367		Group B01D 2313/367 is incomplete pending reclassification of documents from group B01D 2313/36. Groups B01D 2313/36 and B01D 2313/367 should be considered in order to perform a complete search.
N	B01D2313/50		Group B01D 2313/50 is impacted by reclassification into groups B01D 2313/501 and B01D 2313/502. Groups B01D 2313/50, B01D 2313/501 and B01D 2313/502 should be considered in order to perform a complete search.
N	B01D2313/501		Group B01D 2313/501 is incomplete pending reclassification of documents from group B01D 2313/50. Groups B01D 2313/50 and B01D 2313/501 should be considered in order to perform a complete search.
N	B01D2313/502		Group B01D 2313/502 is incomplete pending reclassification of documents from group B01D 2313/50. Groups B01D 2313/50 and B01D 2313/502 should be considered in order to perform a complete search.
N	B01D2313/56		Group B01D 2313/56 is impacted by reclassification into group B01D 2313/57. Groups B01D 2313/56 and B01D 2313/57 should be considered in order to perform a complete search.
N	B01D2313/57		Group B01D 2313/57 is incomplete pending reclassification of documents from group B01D 2313/56. Groups B01D 2313/56 and B01D 2313/57 should be considered in order to perform a complete search.
N	B01D2313/60		Group B01D 2313/60 is incomplete pending reclassification of documents from groups B01D 2313/00 and B01D 2313/90. Groups B01D 2313/00, B01D 2313/90 and B01D 2313/60 should be considered in order to perform a complete search.

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N	B01D2313/62		Group B01D 2313/62 is incomplete pending reclassification of documents from groups B01D 2313/00 and B01D 2313/90. Groups B01D 2313/00, B01D 2313/90 and B01D 2313/62 should be considered in order to perform a complete search.
N	B01D2313/64		Group B01D 2313/64 is incomplete pending reclassification of documents from group B01D 2313/00. Groups B01D 2313/00 and B01D 2313/64 should be considered in order to perform a complete search.
N	B01D2313/66		Group B01D 2313/66 is incomplete pending reclassification of documents from group B01D 2313/00. Groups B01D 2313/00 and B01D 2313/66 should be considered in order to perform a complete search.
N	B01D2313/68		Group B01D 2313/68 is incomplete pending reclassification of documents from group B01D 2313/00. Groups B01D 2313/00 and B01D 2313/68 should be considered in order to perform a complete search.
N	B01D2313/70		Groups B01D 2313/70 - B01D 2313/702 are incomplete pending reclassification of documents from groups B01D 2313/00 and B01D 2313/90. All groups listed in this Warning should be considered in order to perform a complete search.
N	B01D2313/90		Group B01D 2313/90 is impacted by reclassification into groups B01D 2313/60, B01D 2313/62, B01D 2313/70, B01D 2313/701, B01D 2313/702, B01D 2313/901, B01D 2313/902 and B01D 2313/903. All groups listed in this Warning should be considered in order to perform a complete search.
N	B01D2313/901		Group B01D 2313/901 is incomplete pending reclassification of documents from group B01D 2313/90. Groups B01D 2313/90 and B01D 2313/901 should be considered in order to perform a complete search.
N	B01D2313/902		Group B01D 2313/902 is incomplete pending reclassification of documents from group B01D 2313/90. Groups B01D 2313/90 and B01D 2313/902 should be considered in order to perform a complete search.
N	B01D2313/903		Group B01D 2313/903 is incomplete pending reclassification of documents from group B01D 2313/90. Groups B01D 2313/90 and B01D 2313/903 should be considered in order to perform a complete search.
N	B01D2315/00		Group B01D 2315/00 is impacted by reclassification into groups B01D 2315/17, B01D 2315/22 and B01D 2315/24. All groups listed in this Warning should be considered in order to perform a complete search.
N	B01D2315/17		Group B01D 2315/17 is incomplete pending reclassification of documents from group B01D 2315/00. Groups B01D 2315/00

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			and B01D 2315/17 should be considered in order to perform a complete search.
N	B01D2315/22		Group B01D 2315/22 is incomplete pending reclassification of documents from group B01D 2315/00. Groups B01D 2315/00 and B01D 2315/22 should be considered in order to perform a complete search.
N	B01D2315/24		Group B01D 2315/24 is incomplete pending reclassification of documents from group B01D 2315/00. Groups B01D 2315/00 and B01D 2315/24 should be considered in order to perform a complete search.
N	B01D2321/00		Group B01D 2321/00 is impacted by reclassification into groups B01D 2321/281, B01D 2321/282, B01D 2321/35, B01D 2321/42 and B01D 2321/44. All groups listed in this Warning should be considered in order to perform a complete search.
N	B01D2321/16		Group B01D 2321/16 is impacted by reclassification into group B01D 2321/167. Groups B01D 2321/16 and B01D 2321/167 should be considered in order to perform a complete search.
N	B01D2321/167		Group B01D 2321/167 is incomplete pending reclassification of documents from group B01D 2321/16. Groups B01D 2321/16 and B01D 2321/167 should be considered in order to perform a complete search.
N	B01D2321/281		Group B01D 2321/281 is incomplete pending reclassification of documents from group B01D 2321/00. Groups B01D 2321/00 and B01D 2321/281 should be considered in order to perform a complete search.
N	B01D2321/282		Group B01D 2321/282 is incomplete pending reclassification of documents from group B01D 2321/00. Groups B01D 2321/00 and B01D 2321/282 should be considered in order to perform a complete search.
N	B01D2321/35		Group B01D 2321/35 is incomplete pending reclassification of documents from group B01D 2321/00. Groups B01D 2321/00 and B01D 2321/35 should be considered in order to perform a complete search.
N	B01D2321/42		Group B01D 2321/42 is incomplete pending reclassification of documents from group B01D 2321/00. Groups B01D 2321/00 and B01D 2321/42 should be considered in order to perform a complete search.
N	B01D2321/44		Group B01D 2321/44 is incomplete pending reclassification of documents from group B01D 2321/00. Groups B01D 2321/00 and B01D 2321/44 should be considered in order to perform a complete search.
N	B01D2323/00		Group B01D 2323/00 is impacted by reclassification into groups B01D 2323/15, B01D 2323/216, B01D 2323/217, B01D 2323/218, B01D 2323/2181, B01D 2323/21811, B01D

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			2323/21813, B01D 2323/21815, B01D 2323/21817, B01D 2323/21819, B01D 2323/2182, B01D 2323/21821, B01D 2323/21822, B01D 2323/21823, B01D 2323/21824, B01D 2323/21825, B01D 2323/21826, B01D 2323/21827, B01D 2323/21828, B01D 2323/21829, B01D 2323/2183, B01D 2323/21831, B01D 2323/21832, B01D 2323/21833, B01D 2323/21834, B01D 2323/21835, B01D 2323/21836, B01D 2323/21837, B01D 2323/21838, B01D 2323/21839, B01D 2323/2185, B01D 2323/2187, B01D 2323/2189, B01D 2323/219, B01D 2323/226, B01D 2323/52, B01D 2323/54, B01D 2323/56, B01D 2323/58, B01D 2323/60, B01D 2323/62, B01D 2323/64 and B01D 2323/66. All groups listed in this Warning should be considered in order to perform a complete search.
N	B01D2323/08		Group B01D 2323/08 is impacted by reclassification into groups B01D 2323/081 and B01D 2323/082. Groups B01D 2323/08, B01D 2323/081 and B01D 2323/082 should be considered in order to perform a complete search.
N	B01D2323/081		Group B01D 2323/081 is incomplete pending reclassification of documents from group B01D 2323/08. Groups B01D 2323/08 and B01D 2323/081 should be considered in order to perform a complete search.
N	B01D2323/082		Group B01D 2323/082 is incomplete pending reclassification of documents from group B01D 2323/08. Groups B01D 2323/08 and B01D 2323/082 should be considered in order to perform a complete search.
N	B01D2323/15		Group B01D 2323/15 is incomplete pending reclassification of documents from group B01D 2323/00. Groups B01D 2323/00 and B01D 2323/15 should be considered in order to perform a complete search.
N	B01D2323/216		Group B01D 2323/216 is incomplete pending reclassification of documents from group B01D 2323/00. Groups B01D 2323/00 and B01D 2323/216 should be considered in order to perform a complete search.
N	B01D2323/217		Group B01D 2323/217 is incomplete pending reclassification of documents from group B01D 2323/00. Groups B01D 2323/00 and B01D 2323/217 should be considered in order to perform a complete search.
N	B01D2323/218		Group B01D 2323/218 is incomplete pending reclassification of documents from group B01D 2323/00. Groups B01D 2323/00 and B01D 2323/218 should be considered in order to perform a complete search.
N	B01D2323/2181		Group B01D 2323/2181 is incomplete pending reclassification of documents from group B01D 2323/00. Groups B01D 2323/00

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			and B01D 2323/2181 should be considered in order to perform a complete search.
N	B01D2323/21811		Group B01D 2323/21811 is incomplete pending reclassification of documents from group B01D 2323/00. Groups B01D 2323/00 and B01D 2323/21811 should be considered in order to perform a complete search.
N	B01D2323/21813		Group B01D 2323/21813 is incomplete pending reclassification of documents from group B01D 2323/00. Groups B01D 2323/00 and B01D 2323/21813 should be considered in order to perform a complete search.
N	B01D2323/21815		Group B01D 2323/21815 is incomplete pending reclassification of documents from group B01D 2323/00. Groups B01D 2323/00 and B01D 2323/21815 should be considered in order to perform a complete search.
N	B01D2323/21817		Group B01D 2323/21817 is incomplete pending reclassification of documents from group B01D 2323/00. Groups B01D 2323/00 and B01D 2323/21817 should be considered in order to perform a complete search.
N	B01D2323/21819		Group B01D 2323/21819 is incomplete pending reclassification of documents from group B01D 2323/00. Groups B01D 2323/00 and B01D 2323/21819 should be considered in order to perform a complete search.
N	B01D2323/2182		Group B01D 2323/2182 is incomplete pending reclassification of documents from group B01D 2323/00. Groups B01D 2323/00 and B01D 2323/2182 should be considered in order to perform a complete search.
N	B01D2323/21821		Group B01D 2323/21821 is incomplete pending reclassification of documents from group B01D 2323/00. Groups B01D 2323/00 and B01D 2323/21821 should be considered in order to perform a complete search.
N	B01D2323/21822		Group B01D 2323/21822 is incomplete pending reclassification of documents from group B01D 2323/00. Groups B01D 2323/00 and B01D 2323/21822 should be considered in order to perform a complete search.
N	B01D2323/21823		Group B01D 2323/21823 is incomplete pending reclassification of documents from group B01D 2323/00. Groups B01D 2323/00 and B01D 2323/21823 should be considered in order to perform a complete search.
N	B01D2323/21824		Group B01D 2323/21824 is incomplete pending reclassification of documents from group B01D 2323/00. Groups B01D 2323/00 and B01D 2323/21824 should be considered in order to perform a complete search.
N	B01D2323/21825		Group B01D 2323/21825 is incomplete pending reclassification of documents from group B01D 2323/00. Groups B01D 2323/00

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			and B01D 2323/21825 should be considered in order to perform a complete search.
N	B01D2323/21826		Group B01D 2323/21826 is incomplete pending reclassification of documents from group B01D 2323/00. Groups B01D 2323/00 and B01D 2323/21826 should be considered in order to perform a complete search.
N	B01D2323/21827		Group B01D 2323/21827 is incomplete pending reclassification of documents from group B01D 2323/00. Groups B01D 2323/00 and B01D 2323/21827 should be considered in order to perform a complete search.
N	B01D2323/21828		Group B01D 2323/21828 is incomplete pending reclassification of documents from group B01D 2323/00. Groups B01D 2323/00 and B01D 2323/21828 should be considered in order to perform a complete search.
N	B01D2323/21829		Group B01D 2323/21829 is incomplete pending reclassification of documents from group B01D 2323/00. Groups B01D 2323/00 and B01D 2323/21829 should be considered in order to perform a complete search.
N	B01D2323/2183		Group B01D 2323/2183 is incomplete pending reclassification of documents from group B01D 2323/00. Groups B01D 2323/00 and B01D 2323/2183 should be considered in order to perform a complete search.
N	B01D2323/21831		Group B01D 2323/21831 is incomplete pending reclassification of documents from group B01D 2323/00. Groups B01D 2323/00 and B01D 2323/21831 should be considered in order to perform a complete search.
N	B01D2323/21832		Group B01D 2323/21832 is incomplete pending reclassification of documents from group B01D 2323/00. Groups B01D 2323/00 and B01D 2323/21832 should be considered in order to perform a complete search.
N	B01D2323/21833		Group B01D 2323/21833 is incomplete pending reclassification of documents from group B01D 2323/00. Groups B01D 2323/00 and B01D 2323/21833 should be considered in order to perform a complete search.
N	B01D2323/21834		Group B01D 2323/21834 is incomplete pending reclassification of documents from group B01D 2323/00. Groups B01D 2323/00 and B01D 2323/21834 should be considered in order to perform a complete search.
N	B01D2323/21835		Group B01D 2323/21835 is incomplete pending reclassification of documents from group B01D 2323/00. Groups B01D 2323/00 and B01D 2323/21835 should be considered in order to perform a complete search.
N	B01D2323/21836		Group B01D 2323/21836 is incomplete pending reclassification of documents from group B01D 2323/00. Groups B01D 2323/00

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			and B01D 2323/21836 should be considered in order to perform a complete search.
N	B01D2323/21837		Group B01D 2323/21837 is incomplete pending reclassification of documents from group B01D 2323/00. Groups B01D 2323/00 and B01D 2323/21837 should be considered in order to perform a complete search.
N	B01D2323/21838		Group B01D 2323/21838 is incomplete pending reclassification of documents from group B01D 2323/00. Groups B01D 2323/00 and B01D 2323/21838 should be considered in order to perform a complete search.
N	B01D2323/21839		Group B01D 2323/21839 is incomplete pending reclassification of documents from group B01D 2323/00. Groups B01D 2323/00 and B01D 2323/21839 should be considered in order to perform a complete search.
N	B01D2323/2185		Group B01D 2323/2185 is incomplete pending reclassification of documents from group B01D 2323/00. Groups B01D 2323/00 and B01D 2323/2185 should be considered in order to perform a complete search.
N	B01D2323/2187		Group B01D 2323/2187 is incomplete pending reclassification of documents from group B01D 2323/00. Groups B01D 2323/00 and B01D 2323/2187 should be considered in order to perform a complete search.
N	B01D2323/2189		Group B01D 2323/2189 is incomplete pending reclassification of documents from group B01D 2323/00. Groups B01D 2323/00 and B01D 2323/2189 should be considered in order to perform a complete search.
N	B01D2323/219		Group B01D 2323/219 is incomplete pending reclassification of documents from group B01D 2323/00. Groups B01D 2323/00 and B01D 2323/219 should be considered in order to perform a complete search.
N	B01D2323/226		Group B01D 2323/226 is incomplete pending reclassification of documents from group B01D 2323/00. Groups B01D 2323/00 and B01D 2323/226 should be considered in order to perform a complete search.
N	B01D2323/52		Group B01D 2323/52 is incomplete pending reclassification of documents from group B01D 2323/00. Groups B01D 2323/00 and B01D 2323/52 should be considered in order to perform a complete search.
N	B01D2323/54		Group B01D 2323/54 is incomplete pending reclassification of documents from group B01D 2323/00. Groups B01D 2323/00 and B01D 2323/54 should be considered in order to perform a complete search.
N	B01D2323/56		Group B01D 2323/56 is incomplete pending reclassification of documents from group B01D 2323/00. Groups B01D 2323/00



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			and B01D 2323/56 should be considered in order to perform a complete search.
N	B01D2323/58		Group B01D 2323/58 is incomplete pending reclassification of documents from group B01D 2323/00. Groups B01D 2323/00 and B01D 2323/58 should be considered in order to perform a complete search.
N	B01D2323/60		Group B01D 2323/60 is incomplete pending reclassification of documents from group B01D 2323/00. Groups B01D 2323/00 and B01D 2323/60 should be considered in order to perform a complete search.
N	B01D2323/62		Group B01D 2323/62 is incomplete pending reclassification of documents from group B01D 2323/00. Groups B01D 2323/00 and B01D 2323/62 should be considered in order to perform a complete search.
N	B01D2323/64		Group B01D 2323/64 is incomplete pending reclassification of documents from group B01D 2323/00. Groups B01D 2323/00 and B01D 2323/64 should be considered in order to perform a complete search.
N	B01D2323/66		Group B01D 2323/66 is incomplete pending reclassification of documents from group B01D 2323/00. Groups B01D 2323/00 and B01D 2323/66 should be considered in order to perform a complete search.
N	B01D2325/00		Group B01D 2325/00 is impacted by reclassification into groups B01D 2325/39, B01D 2325/43, B01D 2325/50, B01D 2325/52, B01D 2325/54, B01D 2325/56 and B01D 2325/58. All groups listed in this Warning should be considered in order to perform a complete search.
N	B01D2325/02		Group B01D 2325/02 is impacted by reclassification into groups B01D 2325/0281, B01D 2325/0282, B01D 2325/0283, B01D 2325/02831, B01D 2325/02832, B01D 2325/02833 and B01D 2325/02834. All groups listed in this Warning should be considered in order to perform a complete search.
N	B01D2325/021		Group B01D 2325/021 is impacted by reclassification into groups B01D 2325/0212 and B01D 2325/0214. Groups B01D 2325/021, B01D 2325/0212 and B01D 2325/0214 should be considered in order to perform a complete search.
N	B01D2325/0212		Group B01D 2325/0212 is incomplete pending reclassification of documents from group B01D 2325/021. Groups B01D 2325/021 and B01D 2325/0212 should be considered in order to perform a complete search.
N	B01D2325/0214		Group B01D 2325/0214 is incomplete pending reclassification of documents from group B01D 2325/021. Groups B01D 2325/021 and B01D 2325/0214 should be considered in order to perform a complete search.

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N	B01D2325/022		Group B01D 2325/022 is impacted by reclassification into groups B01D 2325/0231, B01D 2325/0232 and B01D 2325/0233. All groups listed in this Warning should be considered in order to perform a complete search.
N	B01D2325/0231		Group B01D 2325/0231 is incomplete pending reclassification of documents from group B01D 2325/022. Groups B01D 2325/022 and B01D 2325/0231 should be considered in order to perform a complete search.
N	B01D2325/0232		Group B01D 2325/0232 is incomplete pending reclassification of documents from group B01D 2325/022. Groups B01D 2325/022 and B01D 2325/0232 should be considered in order to perform a complete search.
N	B01D2325/0233		Group B01D 2325/0233 is incomplete pending reclassification of documents from group B01D 2325/022. Groups B01D 2325/022 and B01D 2325/0233 should be considered in order to perform a complete search.
N	B01D2325/0281		Group B01D 2325/0281 is incomplete pending reclassification of documents from group B01D 2325/02. Groups B01D 2325/02 and B01D 2325/0281 should be considered in order to perform a complete search.
N	B01D2325/0282		Group B01D 2325/0282 is incomplete pending reclassification of documents from group B01D 2325/02. Groups B01D 2325/02 and B01D 2325/0282 should be considered in order to perform a complete search.
N	B01D2325/0283		Groups B01D 2325/0283 - B01D 2325/02834 are incomplete pending reclassification of documents from group B01D 2325/02. All groups listed in this Warning should be considered in order to perform a complete search.
N	B01D2325/34		Group B01D 2325/34 is impacted by reclassification into group B01D 2325/341. Groups B01D 2325/34 and B01D 2325/341 should be considered in order to perform a complete search.
N	B01D2325/341		Group B01D 2325/341 is incomplete pending reclassification of documents from group B01D 2325/34. Groups B01D 2325/34 and B01D 2325/341 should be considered in order to perform a complete search.
N	B01D2325/39		Group B01D 2325/39 is incomplete pending reclassification of documents from group B01D 2325/00. Groups B01D 2325/00 and B01D 2325/39 should be considered in order to perform a complete search.
N	B01D2325/43		Group B01D 2325/43 is incomplete pending reclassification of documents from groups B01D 2325/00 and B01D 2325/44. Groups B01D 2325/00, B01D 2325/44 and B01D 2325/43 should be considered in order to perform a complete search.

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N	B01D2325/44		Group B01D 2325/44 is impacted by reclassification into group B01D 2325/43. Groups B01D 2325/44 and B01D 2325/43 should be considered in order to perform a complete search.
N	B01D2325/50		Group B01D 2325/50 is incomplete pending reclassification of documents from group B01D 2325/00. Groups B01D 2325/00 and B01D 2325/50 should be considered in order to perform a complete search.
N	B01D2325/52		Group B01D 2325/52 is incomplete pending reclassification of documents from group B01D 2325/00. Groups B01D 2325/00 and B01D 2325/52 should be considered in order to perform a complete search.
N	B01D2325/54		Group B01D 2325/54 is incomplete pending reclassification of documents from group B01D 2325/00. Groups B01D 2325/00 and B01D 2325/54 should be considered in order to perform a complete search.
N	B01D2325/56		Group B01D 2325/56 is incomplete pending reclassification of documents from group B01D 2325/00. Groups B01D 2325/00 and B01D 2325/56 should be considered in order to perform a complete search.
N	B01D2325/58		Group B01D 2325/58 is incomplete pending reclassification of documents from group B01D 2325/00. Groups B01D 2325/00 and B01D 2325/58 should be considered in order to perform a complete search.

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C. New, Modified or Deleted Note(s)

**SUBCLASS 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 B30B9/02; treatment of water C02F, e.g. softening by ion-exchange C02F1/42; {arrangements of air intake cleaners in gas turbine plants F02C7/05}; arrangements or mounting of filters in air-conditioning, air-humidification or ventilation F24F13/28)**

<u>Type*</u>	<u>Location</u>	<u>Old Note</u>	<u>New/Modified Note</u>
M	B01D	<p>1. This subclass <u>covers</u>:</p> <ul style="list-style-type: none"> <li>• evaporation, distillation, crystallisation, filtration, dust precipitation, gas cleaning, absorption, adsorption;</li> <li>• similar processes which are not concerned with, or limited to, separation, except in the case of absorption or adsorption.</li> </ul> <p>2. In this subclass the terms or expressions are used with the meaning indicated:</p> <ul style="list-style-type: none"> <li>• "filtration" and analogous terms include straining solids from fluids. Filtration is a process that normally uses a filter medium;</li> <li>• "filter medium" is a porous material or porous arrangement of material used to</li> </ul>	<p>1. This subclass <u>covers</u>:</p> <ul style="list-style-type: none"> <li>• evaporation, distillation, crystallisation, filtration, dust precipitation, gas cleaning, absorption, adsorption;</li> <li>• similar processes which are not concerned with, or limited to, separation, except in the case of absorption or adsorption.</li> </ul> <p>2. In this subclass, the terms or expressions are used with the meaning indicated:</p> <ul style="list-style-type: none"> <li>• "filtration" and analogous terms include straining solids from fluids. Filtration is a process that normally uses a filter medium;</li> <li>• "filter medium" is a porous material or porous arrangement of material used to filter solids from fluids;</li> </ul>

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<u>Type*</u>	<u>Location</u>	<u>Old Note</u>	<u>New/Modified Note</u>
		<p>filter solids from fluids;</p> <ul style="list-style-type: none"> <li>• "filtering element" is a section of filter medium in addition to parts to which the medium is demountably or permanently fixed, including other sections of medium, end caps, peripheral frames or edge strips, but excluding housings;</li> <li>• "filter housing" is the fluid-constraining impervious vessel, whether open or closed, which contains, or is adapted to contain, one or more filtering elements or filter media;</li> <li>• "filter chamber" is the space within a housing, where filtering elements or filter media are located. Partitions may divide a single housing into a plurality of chambers;</li> <li>• "filtering apparatus" consists of filtering elements combined with housings,</li> </ul>	<ul style="list-style-type: none"> <li>• "filtering element" is a section of filter medium in addition to parts to which the medium is demountably or permanently fixed, including other sections of medium, end caps, peripheral frames or edge strips, but excluding housings;</li> <li>• "filter housing" is the fluid-constraining impervious vessel, whether open or closed, which contains, or is adapted to contain, one or more filtering elements or filter media;</li> <li>• "filter chamber" is the space within a housing, where filtering elements or filter media are located. Partitions may divide a single housing into a plurality of chambers;</li> <li>• "filtering apparatus" consists of filtering elements combined with housings, cleaning arrangements, motor or the like</li> </ul>

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<u>Type*</u>	<u>Location</u>	<u>Old Note</u>	<u>New/Modified Note</u>
		<p>cleaning arrangements, motor or the like parts, which are characteristic of the particular type of apparatus. Ancillary devices such as pumps or valves are considered part of a filtering apparatus when inside the apparatus. Ancillary devices performing similar or different unit operation such as comminutors, mixers or non-filtering separators, whether or not inside the apparatus, are not considered part of a filtering apparatus. The term does not extend to apparatus, e.g. washing machines, of which the filter forms only a part.</p> <p>3. For apparatus used in drying or evaporation, class F26 takes precedence over this subclass.</p>	<p>parts, which are characteristic of the particular type of apparatus. Ancillary devices such as pumps or valves are considered part of a filtering apparatus when inside the apparatus. Ancillary devices performing similar or different unit operation such as comminutors, mixers or non-filtering separators, whether or not inside the apparatus, are not considered part of a filtering apparatus. The term does not extend to apparatus, e.g. washing machines, of which the filter forms only a part.</p> <p>3. For apparatus used in drying or evaporation, class F26 takes precedence over this subclass.</p> <p>4. Group B01D 59/00 takes precedence over the other groups of this subclass and over other subclasses in class B01.</p> <p>5. {In this subclass, combination sets [C-Sets] are used. The detailed</p>

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<u>Type*</u>	<u>Location</u>	<u>Old Note</u>	<u>New/Modified Note</u>
		4. Group B01D 59/00 takes precedence over the other groups of this subclass and over other subclasses in class B01.	information about the C-Sets construction and the associated syntax rules are found in the definitions of B01D.}
M	B01D61/00 - B01D71/00	In groups B01D 61/00 - B01D 71/00, the last place priority rule is applied, i.e. at each hierarchical level, in the absence of an indication to the contrary, classification is made in the last appropriate place {(with respect to B01D 71/00, see also Note (1) following that group)}.	In IPC groups B01D 61/00 - B01D 71/00, the last place priority rule is applied, i.e. at each hierarchical level, in the absence of an indication to the contrary, classification is made in the last appropriate place.  {The last place priority rule in groups B01D61/00 - B01D69/00 is not applied in the CPC.}
M	B01D61/00	In groups B01D61/00 - B01D61/58 it is desirable to add the indexing codes relating to process operations and control chosen from groups B01D2311/00 - B01D2311/2696, to details relating to membrane modules and apparatus indexing codes chosen from B01D2313/00 - B01D2313/90, to details relating to the membrane module operation indexing codes chosen from B01D2315/00 - B01D2315/16, to details relating to the module arrangement within a plant or an apparatus indexing codes chosen from B01D2317/00 - B01D2317/08 and to details relating to the membrane assembly within one housing indexing codes chosen from B01D2319/00 - B01D2319/06	1. {When classifying in this group, the indexing codes of the following groups must be added if applicable: - B01D 2311/00 for details related to process operations and control; - B01D 2313/00 for details related to membrane modules or apparatus; - B01D 2315/00 for details related to the membrane module operation; - B01D 2317/00 for details related to the module arrangement within a plant or an apparatus; - B01D 2319/00 for details related to the membrane assembly within one housing.}  2. {Multistep processes comprising two or more membrane-separation steps of different kinds must be classified in B01D 61/58 in combination with the subgroup for the specific steps. The symbols relating to the specific steps are added as "additional information."}  3. {Multistep processes comprising two or more membrane-separation steps of the same kind must be classified in the subgroup covering

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<u>Type*</u>	<u>Location</u>	<u>Old Note</u>	<u>New/Modified Note</u>
			the specific multistep membrane separation, e.g. B01D 61/029 for processes comprising two or more reverse osmosis steps, B01D 61/3621 for processes comprising two or more pervaporation steps.}
N	B01D61/04		{When classifying in this group, the type of pretreatment must be specified with the indexing codes of groups B01D2311/04 and B01D2311/10 - B01D2311/2696.}
N	B01D61/16		{In group B01D 61/16 the type of pretreatment must be specified with the indexing codes B01D 2311/04 and B01D 2311/10 - B01D 2311/2696.}
M	B01D61/58	In group B01D 61/58 specific process steps within the multistep process are indexed by codes chosen from B01D 61/02 - B01D 61/56	{In group B01D 61/58 the symbols relating to the specific process steps in B01D61/00 - B01D61/56 are given as additional information.}
M	B01D63/00	In groups B01D63/00 - B01D63/16 it is desirable to add the indexing codes relating to membrane modules and apparatus chosen from groups B01D2313/00 - B01D2313/90, to details relating to the membrane module operation indexing codes chosen from B01D2315/00 - B01D2315/16, to details relating to the module arrangement within a plant or an apparatus indexing codes chosen from B01D2317/00 - B01D2317/08 and to details relating to the membrane assembly within one housing indexing codes are chosen from B01D2319/00 - B01D2319/06	1. {When classifying in this group, the indexing codes of the following groups must be added if applicable: - B01D 2313/00 for details related to membrane modules and apparatus; - B01D 2315/00 for details related to the membrane module operation; - B01D 2317/00 for details related to the module arrangement within a plant or an apparatus; - B01D 2319/00 for details related to the membrane assembly within one housing.}  2. {Attention is drawn to the Note following B01D 59/50, which indicates the last place rule is not applied in B01D 63/00.}
N	B01D65/00		{Attention is drawn to the Note following B01D 59/50, which indicates the last place rule is not applied in B01D 65/00.}
M	B01D65/02	In group B01D65/02 it is desirable to add the indexing codes relating to membrane	{When classifying in this group, the indexing codes of the following groups must be added if



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		cleaning, regeneration, sterilization and prevention of membrane fouling chosen from groups B01D2321/00 - B01D2321/28	applicable: - B01D 2321/00 for details relating to membrane cleaning, regeneration, sterilization or to the prevention of fouling.}
M	B01D65/08	In group B01D65/08 it is desirable to add the indexing codes relating to membrane cleaning, regeneration, sterilization and prevention of membrane fouling chosen from groups B01D2321/00 - B01D2321/28	{When classifying in this group, the indexing codes of the following groups must be added if applicable: - B01D 2321/00 for details relating to membrane cleaning, regeneration, sterilization or to the prevention of fouling.}
M	B01D67/00	When classifying in this group, the indexing codes of the following groups must be added if applicable: - B01D 2323/00 for details relating to membrane preparation	1. {When classifying in this group, the indexing codes of the following groups must be added if applicable: - B01D 2323/00 for details relating to membrane preparation.}  2. {Attention is drawn to the Note following B01D 59/50, which indicates the last place rule is not applied in B01D 67/00.}
M	B01D69/00	1. In this group, the following term is used with the meaning indicated: -"properties" covers those of a mechanical, physical or chemical nature  2. Manufacturing processes, if considered of interest, are also classified in group B01D67/00	1. In this group, the following term is used with the meaning indicated: -"properties" covers those of a mechanical, physical or chemical nature.  2. {Manufacturing processes, if considered of interest, are also classified in group B01D67/00.}  3. {Attention is drawn to the Note following B01D 59/50, which indicates the last place rule is not applied in B01D 69/00.}
M	B01D69/02	In group B01D69/02 it is desirable to add the indexing codes relating to properties of membranes chosen from groups B01D2325/00 - B01D2325/38	{When classifying in this group, the indexing codes of the following groups must be added if applicable: - B01D 2325/00 for details relating to properties of membranes.}
M	B01D71/00	1. In this group, if the material is a composition it is classified according to the constituent present in the highest proportion. This constituent is classified according to the last place rule (see Note before group	1. In this group, if the material is a composition it is classified according to the constituent present in the highest proportion; see Note before group B01D 61/00. {This constituent is classified according to the last place rule.} If there is

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		<p>B01D61/00). If there is more than one constituent present in equal highest proportions, then each of these constituents is classified according to the last place rule.</p> <p>2. Manufacturing processes, if considered of interest, are also classified in group B01D67/00.</p>	<p>more than one constituent present in equal highest proportions, then each of these constituents is classified according to the last place rule.</p> <p>2. Manufacturing processes, if considered of interest, are also classified in group B01D 67/00.</p>
M	B01D2311/00	<p>In groups B01D 2311/02 - B01D 2311/08, the nature of specific operations carried out can be indexed by a combination of symbols chosen from B01D 2311/10 - B01D 2311/2696</p>	<p>In this group, C-sets are used for classification. The detailed information about the C-Sets construction and the associated syntax rules are found in the definitions of B01D.</p>

\*N = new note, M = modified note, D = deleted note

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

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## 2. A. DEFINITIONS (new)

Insert: The following new Definitions.

### **B01D 61/002**

#### **References**

#### **Informative references**

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

Actuators for pressure-retarded osmosis	<a href="#">F03G 7/015</a>
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### **B01D 61/02**

#### **Definition statement**

*This place covers:*

Pressure-driven membrane processes for separation with membranes relating to reverse osmosis, nanofiltration and hyperfiltration.

#### **Special rules of classification**

The respective processes are covered by subgroups of B01D61/00.

The subgroup B01D61/025 also covers processes comprising at least two process steps of hyperfiltration.

The subgroup B01D61/026 covers processes comprising at least two process steps of reverse osmosis.

The subgroup B01D61/0271 covers processes comprising at least two process steps of nanofiltration.

The subgroup B01D61/029 covers multistep processes comprising at least two different kinds of processes selected from reverse osmosis, hyperfiltration or nanofiltration.

Multiple classification is to be performed when applicable.

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## **B01D 61/081**

### **Definition statement**

*This place covers:*

Apparatuses which are compact and suitable for private use, for instance household applications.

### **References**

#### **Informative references**

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

Water treatment only using household-type filters for producing potable water, e.g. pitchers, bottles, faucet-mounted devices	<a href="#">C02F 1/003</a>
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## **B01D 61/246**

### **Definition statement**

*This place covers:*

Aspects relating specifically to the membrane separation process and its apparatus.

### **References**

#### **Informative references**

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

Solvent extraction in combination with membranes	<a href="#">B01D 11/0415</a>
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## **B01D 61/364**

### **Definition statement**

*This place covers:*

The process of membrane distillation and apparatus therefor.

### **References**

#### **Informative references**

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

Distillation per se	<a href="#">B01D 3/00</a>
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## **B01D 61/365**

### **Definition statement**

*This place covers:*

The process of osmotic distillation and apparatus therefor.

### **References**

#### **Informative references**

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

Distillation per se	<a href="#">B01D 3/00</a>
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## **B01D61/58**

### **Definition statement**

*This place covers:*

Any multi-step process comprising more than one different membrane separation process and not solely falling within B01D61/026, B01D61/0271, B01D61/029, B01D61/146, B01D61/1471, B01D61/149, B01D61/244, B01D61/2461, B01D61/3621, B01D61/3631, B01D61/3641, B01D61/3651, B01D61/423, B01D61/4251, B01D61/4271, B01D61/4281.

### **Special rules of classification**

The last place rule does not apply.

All possible symbols within B01D61/026, B01D61/0271, B01D61/029, B01D61/146, B01D61/1471, B01D61/149, B01D61/244, B01D61/2461, B01D61/3621, B01D61/3631, B01D61/3641, B01D61/3651, B01D61/423, B01D61/4251, B01D61/4271, B01D61/4281 should be assigned.

## **B01D 63/089**

### **Definition statement**

*This place covers:*

Modules wherein the bag-, cushion- or pad-form membrane can be flat but also encompasses additional configurations.

## **B01D 63/101**

### **Definition statement**

*This place covers:*

Details relating to the action/process of winding the membranes into a spiral-wound membrane module as well as details relating to the apparatus used for winding the membranes if applicable.

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

Unwinding webs in general	<a href="#">B65H 16/00</a>
Winding webs in general	<a href="#">B65H 18/00</a>
Shaping, joining by spiral winding	<a href="#">B29C 53/56 - B29C 53/562</a>
Winding spirally to join sheet- or web-like material to tubular articles	<a href="#">B29C 63/12 - B29C 63/145</a>
Component parts and operations for shaping, joining by winding	<a href="#">B29C 53/80 - B29C 53/845</a>
Membrane, diaphragm indexing codes associated with plastic shaping, joining	<a href="#">B29L 2031/755</a>

**B01D 65/06****Special rules of classification**

The use of indexing codes B01D 2321/16 - B01D2321/168 with B01D65/06 is mandatory.

**B01D 67/00045****References****Informative references***Attention is drawn to the following places, which may be of interest for search:*

Shaping or joining of plastics	<a href="#">B29C</a>
Additive manufacturing	<a href="#">B33Y</a>

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## **B01D 67/0079**

### **Definition statement**

*This place covers:*

Processes for formation of membranes made of or comprising metal organic framework [MOF].

### **Relationships with other classification places**

Disclosures also encompassing the membranes per se made of or comprising metal organic framework [MOF] as separating components should be placed also in B01D71/028.

## **B01D 67/0088**

### **References**

#### **Informative references**

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

Involving chemical reactions	<a href="#">B01D 67/0093</a>
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## **B01D 67/00933**

### **References**

#### **Informative references**

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



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Adhesives	<a href="#">C09J</a>
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## **B01D 69/061**

### **Definition statement**

*This place covers:*

Properties of the membranes as such being in the form of membrane bags, pads or cushions, whereas B01D63/089 covers the membrane module features.

Modules wherein the membrane is not necessarily in the form of a flat bag, cushion or pad.

## **B01D 69/1213**

### **References**

#### **Informative references**

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

Layered products	<a href="#">B32B</a>
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## **B01D 69/1214**

### **References**

#### **Informative references**

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

After-treatment by addition of a layer chemically bonded to the membrane	<a href="#">B01D 67/00933</a>
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## **B01D 71/028**

### **Definition statement**

*This place covers:*

Membranes made of or comprising metal organic framework [MOF] as separating components.

### **Relationships with other classification places**

Disclosures also encompassing processes for formation of membranes made of or comprising metal organic framework [MOF] should be classified also in B01D67/0079.

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## 2. A. DEFINITIONS (modified)

### B01D 61/00

#### Definition statement

Insert: The new sentence (“Apparatus specifically used in the processes are also classified here.”) as the second paragraph of Definition text as shown below.

Processes for separation of liquid feed by means of a membrane in general which selectively allows passage of components from liquid feed mixtures including suspensions of particles, heterogeneous or homogeneous mixtures.

Apparatus specifically used in the processes are also classified here.

These types of membrane processes include: ...

#### Relationships with other classification places

Insert: The following new paragraph as the third paragraph of text within the Relationships section.

A close relationship exists between membrane separation processes covered by B01D61/00 and certain application fields, such as water treatment systems (C02F1/44), gas separation (B01D53/22), battery and fuel cell electrochemical processes (H01M) and haemodialysis blood separation processes (A61M1/00 and subgroups). When applicable, groups from B01D61/00 - B01D61/58 are given in addition to groups related to the application fields.

#### References

##### Limiting references

Replace: The existing Limiting references table with the following table.

Processes for separation of gases or vapour by means of membranes	B01D 53/22
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**Informative references**

Insert: The following new rows into the existing Informative references table.

Bandages or dressings	A61F13/00
Galenic forms by sustained drug release by osmosis	A61K9/0004
Drug containing films, membranes or sheets	A61K9/7007
Methods or apparatus for sterilizing material using filtration	A61L2/022
Blood dialysis systems and blood oxygenation processes with membranes	A61M1/16
Filtering material out of the blood by passing it through a membrane, i.e. haemofiltration, diafiltration	A61M1/34
Degasification of liquids by filtration (i.e. with membranes)	B01D19/0031
Dead end filtration processes and devices	B01D25/00, B01D27/00, B01D29/00, B01D33/00, B01D35/00
Electrophoresis for separation	B01D57/02
Electrophoretic production of compounds or non-metals	C25B7/00
Membrane modules for membrane separation	B01D63/00
Membrane cleaning or sterilisation	B01D65/02
Prevention of membrane fouling	B01D65/08
Membrane testing	B01D65/10
Feeding or removing reactants or products to or from the catalyst bed of a reactor through a membrane	B01J8/009
Membrane reactors	B01J19/1893, B01J19/2475
Separation of hydrogen by diffusion	C01B3/501
Preparation of oxygen by making use of membranes	C01B13/0251
Purification or separation of nitrogen by making use of membranes	C01B21/0438
Physical processing of noble gases by making use of membranes	C01B23/0042
Purification of acyclic or carboxylic compounds using membranes	C07C7/00
Working up of undefined normally gaseous mixtures using membranes	C10G70/045
Enzymology or microbiology with dialysis means	C12M1/12

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Tissue, human, animal or plant cell or virus culture apparatus with ultrafiltration, inverse osmosis or dialysis means	C12M3/06
Extracting or separation of nucleic acids from biological samples by membranes	C12N15/1017
Electrolysis	C25B
Osmotically driven micro pumps	F04B19/006
Fuel cells	H01M8/00
Batteries comprising separators	H01M50/40

### Special rules of classification

Replace: The existing Special rules text with the following text.

#### **Classification in multiple groups:**

In case a specific application is addressed, the respective application class/group/subgroup has to also be assigned, e.g. a membrane purification process of specific carboxylic acid amines, is also classified in C07C231/24.

As long as no details on the membrane process or the apparatus for carrying out said process are disclosed, no groups from B01D61/00 - B01D61/58 are given in addition. However, if such details are given, the respective B01D61/00 - B01D61/58 group should be given in addition.

#### **Subgroup and main group:**

In general, the relevant subgroup is given and not the head group. If more than one subgroup of a single head group is relevant for a document, all of these relevant subgroups are given.

#### **Classification of additional information:**

The classification of additional information is obligatory and useful for retrieving documents. Often, aspects of cleaning, maintenance or stable operation are disclosed in connection with the processes. This information is to be classified under CPC groups B01D65/02, B01D65/08 and the symbols under B01D2321/00.

#### **Further details of subgroups:**

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B01D61/0022, B01D61/026, B01D61/0271, B01D61/146, B01D61/1471, B01D61/244, B01D61/2461, B01D61/3621, B01D61/3631, B01D61/3641, B01D61/3651, B01D61/423, B01D61/4251, B01D61/4271 and B01D61/4281 include multi-step processes with more than one process step of the same kind of membrane separation process.

B01D61/026, B01D61/0271 and B01D61/029 include sequences of reverse osmosis [RO] steps, sequences of nanofiltration [NF] steps as well as mixed RO-NF sequences.

B01D61/146, B01D61/147 and B01D61/149 include sequences of ultrafiltration [UF] steps, sequences of microfiltration [MF] steps as well as mixed MF-UF sequences.

B01D61/58: Multi-step processes comprising two or more membrane-separation steps of different kind must be classified in B01D61/58 in combination with the subgroup for the specific steps. The symbols relating to the specific process steps in B01D61/00 - B01D61/56 are given as additional information.

B01D61/08, B01D61/18, B01D61/28, B01D61/366 and B01D61/46: These groups apply in case a whole membrane plant structure suitable to carry out a membrane process is addressed. They include also microfluidic devices. Membrane modules as such are classified in B01D63/00.

B01D61/10 and B01D61/20 apply for specific parts of the membrane plant not being the membrane module (e.g. specific pumps, valves, heat exchangers etc.) and which are not relevant for the module alone, which is classified in B01D65/00.

B01D61/147: The group includes microfiltration processes only of the cross-flow type (i.e. no dead-end). Dead-end filtration is classified in B01D25/00 - B01D35/00.

B01D61/04 and B01D61/16: In these subgroups, the type of pre-treatment must be specified with the indexing orthogonal codes B01D2311/04, if applicable as a C-Set as described below.

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B01D61/461 - B01D61/468: If applicable, multiple of these groups can be given to characterise the apparatus.

Group B01D61/461 covers a single cell or a single pair of membranes whereas groups B01D61/462 - B01D61/467 cover the sequence of a plurality of pairs of membranes.

B01D2311/00: The groups under B01D2311/00 specify details to the membrane separation process and control (as controlled parameters or additional unit operations involved).

In B01D2311/00, C-Sets have to be used, if applicable, to identify additional process operations taking place in the feed stream, the permeate stream or the concentrate stream, or before the plant starts operation.

B01D2313/00: The groups under B01D2313/00 specify details related to membrane modules or apparatus.

B01D2315/00: The groups under B01D2315/00 specify details relating to the membrane module operation (e.g. batch processes or submerged operation).

B01D2317/00: The groups under B01D2317/00 specify the membrane module arrangements within a plant or an apparatus (e.g. series/parallel connections).

B01D2319/00: The groups under B01D2319/00 specify the membrane module arrangements within a single housing (e.g. series/parallel connections).

## **B01D 63/00**

### **Definition statement**

Replace: The existing Definition statement with the following text.

Modules for membrane-based separation processes. These modules could be suitable for liquid (B01D61/00 - B01D61/58) and/or gaseous (B01D53/22) feed/permeate streams.

The devices classified in this group provide details on the integration of a selective separation membrane into a technically applicable module concept as e.g.:

- a membrane plate with support structure, closed edges and permeate duct

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- a spiral wound module with permeate core pipe
- a hollow fibre-type module potted in tube sheets
- a rotating membrane disc mounted to a shaft
- tubular membrane module
- flat membrane module
- pleat-type membrane module
- rotary, reciprocated or vibrated module

The technical concept may include membrane fixing or sealing means or certain feed or permeate side ducts or spaces.

## Relationships with other classification places

Replace: The existing Relationships text with the following text.

The groups for apparatus specifically adapted for a certain membrane separation process classified in B01D61/08, B01D61/18, B01D61/28, B01D61/366 and B01D61/46 concern a plant wide concept of design. This does not exclude that a specific module concept is disclosed in combination to this concept, which is then classified in B01D63/00 in addition if applicable.

If a document does not focus on the concept of incorporation of the membrane into the module but on membrane unrelated details (e.g. housing, end caps or locks), the relevant classification would be B01D65/00. This does not exclude that a specific module concept is disclosed in combination to this concept, which is then classified in B01D63/00 in addition if applicable.

A specific structure of the membrane as such (like the cross-sectional structure of a hollow fibre or a membrane with surface irregularities) is classified in the relevant B01D69/00 groups.

## References

Delete: The entire Limiting references section.

## Informative references

Replace: The existing Informative references table with the following table.

Bandages or dressings	A61F13/00
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Drug containing films, membranes or sheets	A61K9/7007
Methods or apparatus for sterilizing material using filtration	A61L2/022
Blood dialysis systems, blood oxygenation devices and blood filtration devices with do not focus on the design of the membrane module as such	A61M1/16, A61M1/34
Dead end filtration processes and devices	B01D25/00, B01D27/00, B01D29/00, B01D33/00, B01D35/00
Separation of gases or vapours by diffusion	B01D53/22
Drying gases or vapours by filtration	B01D53/266
Processes of separation using semi-permeable membranes	B01D61/00
Membrane apparatus specifically adapted for a reverse osmosis or nanofiltration process	B01D61/08
Membrane apparatus specifically adapted for an ultrafiltration or microfiltration process	B01D61/18
Apparatus for dialysis	B01D61/28
Apparatus for electro dialysis	B01D61/46
Details of membrane modules not related to the membrane parts such as housing or locks	B01D65/00
Membrane bonding or sealing	B01D65/003
Processes specially adapted for manufacturing semi-permeable membrane for separation processes	B01D67/00
Semi-permeable membranes for separation processes characterised by their form, structure	B01D69/00
Material of semi-permeable membrane for separation processes	B01D71/00
Honeycomb catalysts and wall flow filters	B01D2255/915, B01D2255/9155
Membrane reactors	B01J19/1893, B01J19/2475
Multiwell filters	B01L3/50255
Treatment of water, waste water, sewage, or sludge by means of by dialysis, osmosis or reverse osmosis	C02F1/44
Treatment of water, waste water, sewage, or sludge by electrochemical separation	C02F1/469
Membrane bioreactors	C02F3/1268
Mobile apparatus and plants, e.g. mounted on a vehicle	C02F2201/008
Enzymology or microbiology with dialysis means	C12M1/12
Tissue, human, animal or plant cell or virus culture apparatus with ultrafiltration, inverse osmosis or dialysis means	C12M3/06

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Honeycomb structures not relevant for membrane separation (silencers, catalysts etc.)	<a href="#">F01N3/0222</a> , <a href="#">B01J35/04</a>
Apparatus for feeding liquid fuel having water separation means as membranes	<a href="#">F02M37/24</a>
Osmotically driven micropumps	<a href="#">F04B19/006</a>
Batteries comprising separators	<a href="#">H01M50/40</a>
Fuel cells	<a href="#">H01M8/00</a>

## Special rules of classification

Replace: The existing Special rules text with the following text.

### **Classification of additional information:**

The classification of additional information is obligatory.

The subgroups under B01D2313/00 specify details to the membrane modules.

B01D2315/00 relates to membrane module operation details.

Subgroup indexing codes under B01D2319/00 specify the membrane module arrangements within a single housing (e.g. series/parallel connections).

### **Subgroup and main group:**

In general, the relevant subgroup is given and not the head group. If more than one subgroup of a single head group is relevant for a document, all of these relevant subgroups are given.

Membrane separation modules as such are to be classified in B01D63/00 - B01D63/16 despite their field of application (e.g. though gas separation processes with membranes are classified in B01D53/22, the modules as such are to be classified in B01D63/00 - B01D63/16).

Usually all stand-alone types of modules are classified in B01D63/00 unless they are an integral part of a specific device such as e.g. lab-on-a-chip, multi-well membrane filters, gas detectors, implantable dialysis means or degasification means in ink jet cartridges.

### **Further details of subgroups:**

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B01D63/00: The subgroup B01D63/00 is used for module concepts not falling in any of the subgroups.

B01D63/066: This group applies for honeycomb structures with through-going channels, i.e. suitable for cross-flow. The structurally similar exhaust gas filters (wall flow filters) and catalysts with channels closed at one end are not classified here. (cf. off-gas treatment subgroups B01D2255/915 and B01D2255/9155).

The subgroups of B01D69/04 do not apply for honeycomb structures. Honeycomb filters for gas separation are classified in B01D46/2418 and subgroups.

B01D63/067 and B01D63/14: B01D63/067 covers tubular membranes bent/pleated along their length dimension (e.g. u-shape) while the subgroup B01D63/14 covers pleated flat membranes (often arranged in a closed circle).

B01D63/16: The subgroup B01D63/16 partly overlaps with the corresponding apparatus classes in B01D33/00 (filters with moving elements), especially with the subgroup B01D33/15. The documents are classified with respect to their intended application, i.e. if one of the applications falling under B01D61/00 is covered, B01D63/16 would apply.

The subgroups under B01D2315/02 and B01D2315/04 further specify membrane module arrangements falling under B01D63/16.

## **B01D 65/00**

### **Relationships with other classification places**

Replace: The existing Relationships section text with the following text.

Dead-end filtration devices, accessories and auxiliary operations are classified according to B01D25/00 - B01D35/00.

### **References**

Delete: The entire Limiting references section.

### **Informative references**

Replace: The existing Informative references table with the following table.

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Sterilisation in general	A61L2/00
Accessories and auxiliary operations specifically for apparatus for blood dialysis and filtration	A61M1/16, A61M1/34
Accessories and auxiliary operations of dead-end filtration devices	B01D25/00, B01D27/00, B01D29/00, B01D33/00, B01D35/00
Accessories specifically adapted for forward osmosis process	B01D61/0024
Accessories specifically adapted for a reverse osmosis or nanofiltration process	B01D61/10
Accessories specifically adapted for an ultrafiltration or microfiltration process	B01D61/20
Accessories specifically for apparatus for dialysis	B01D61/30
Accessories specifically adapted for pervaporation, membrane distillation, liquid permeation, vapour permeation, osmotic distillation or osmotic evaporation	B01D61/368
Accessories specifically for apparatus for electro dialysis	B01D61/52
Regeneration of electro dialysis devices	B01D61/54
Membrane modules as such	B01D63/00
Cleaning and fouling prevention in general	B08B
Water treatment processes by membrane technology	C02F1/44
Aerating systems for activated sludge systems	C02F3/00
Testing of material in general	G01N
Investigating permeability, pore-volume, or surface area of porous materials	G01N15/08

### Special rules of classification

Replace: The existing Special rules text with the following text.

#### **Classification of additional information:**

#### **Subgroup and main group:**

In general, the relevant subgroup is given and not the head group. If more than one subgroup of a single head group is relevant for a document, all these relevant subgroups are given.

#### **Further details of subgroups:**

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B01D65/00 and B01D65/003 are given together with the relevant subgroups under B01D2313/00, which specify details to the membrane modules and apparatus which might be of relevance.

B01D65/00: Accessories for modules and membrane plants which are not directly interrelated with a specific module type, e.g. end caps B01D65/00 or membrane sealing B01D65/003.

B01D65/02: Membrane cleaning and sterilisation, i.e. actions taken or means specifically designed for treating the membrane in between cycles of steady filtration operation.

B01D65/02 and B01D65/08: When aeration occurs during filtration operation B01D65/08 applies. When aeration takes place during cleaning cycles B01D65/02 applies. Combination of aeration during filtration operation and during cleaning cycles are classified in both groups.

The application of usual cross-flow conditions is not classified in B01D65/08.

If the process control is of relevance for either membrane cleaning or prevention of membrane fouling, the respective control groups of B01D61/00 have to be given, if applicable, in combination with the relevant groups under B01D2311/00.

**The classification of additional information is obligatory:**

For membrane cleaning processes, B01D65/02 is given together with the relevant symbols under B01D2321/00 that specify details of membrane cleaning operations.

For measures for fouling prevention, B01D65/08 is given together with the relevant symbols under B01D2321/00 that specify details of membrane fouling prevention operations.

B01D65/08: Prevention of membrane fouling, i.e. actions taken or means specifically designed for influencing the steady state operation conditions such that fouling is controlled (e.g. aeration during filtration or static mixers etc.).

B01D65/10: Testing of membranes or membrane apparatus, i.e. devices and methods for determining integrity of the membrane and/or the whole module or for determining characteristic parameters as retention, permeability etc.

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## **B01D 67/00**

### **Relationships with other classification places**

Replace: The existing Relationships text with the following text.

Production of hollow fibre membranes are classified under [B01D69/08](#).

In situ polymerization processes as e.g. interfacial polymerization are classified in B01D69/125. The spinning of hollow fibres is additionally classified in B01D69/087 and subgroups.

Production of specific shapes of membranes is in the relevant subgroups of [B01D69/00](#).

Membrane materials are classified under [B01D71/00](#).

Filter materials using woven or non-woven selective layers or loose particles for separation purposes are classified in [B01D39/00](#).

The following fields have their own classification schemes for manufacture of membrane:

Membrane specifically manufactured/ adapted for the application in fuel cells ([H01M8/1018](#) and subgroups).

Production of ion exchange material films/ membranes ([C08J5/22](#)).

Production of battery separators ([H01M50/40](#)).

Double classification with [B01D69/00](#) may occur if the structures produced are suitable to be used in membrane separation processes.

[C08](#) covers organic macromolecular compounds, their preparation or chemical working-up and compositions based thereon.

### **References**

Delete: The entire Limiting references section.

### **Informative references**

Insert: The following new rows into the existing Informative references table.

Surface coating to prevent activation of blood	<a href="#">A61L33/00</a>
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Membrane material as such	B01D71/00
Additives used in the membrane preparation	B01D2323/218
Production of catalysts by surface coating processes	B01J37/02
Shaping by stretching	B29C55/00
Surface treatment with plasma in general	B29C59/00
Shaping composites, i.e. plastics material comprising reinforcements, fillers or preformed parts, e.g. inserts by moulding material on a relatively small portion (e.g. hollow fibre potting) of the preformed parts	B29C70/845
Microstructural devices	B81B
After-treatment of mortars, concrete, artificial stone or ceramics by coating or impregnating	C04B41/45
Manufacture of films of plastics	C08J5/18
Electroless plating in general	C23C18/16
Aluminium anodization in general	C25D11/04

## Special rules of classification

Replace: The existing Special rules text with the following text.

### **Classification in multiple groups:**

If only the preparation of the support is defined in detail, the corresponding subgroup in B01D69/10 must be assigned. The preparation of the support is not classified in B01D67/00.

### **Classification of additional information:**

The classification of additional information is obligatory.

The subgroups under B01D2323/00 specify details to the membrane manufacturing methods.

The respective subgroups under B01D61/00 are given as additional information if a membrane is specifically produced for a membrane process (as e.g. nanofiltration; B01D61/027 given as additional information).

B01D69/02 is used in combination with the relevant groups under B01D2325/00 if the manufacturing process results in specific properties of the membrane product.

### **Subgroup and main group:**

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In general, the relevant subgroup is given and not the head group. If more than one subgroup of a single head group is relevant for a document, all these relevant subgroups are given.

**Further details of subgroups:**

B01D67/0079: Subgroup B01D67/0079 concerns the production process of membrane active layers comprising both organic and inorganic materials (as e.g. mixed matrix membranes in B01D69/148 or hybrid organic inorganic membranes as polysilsesquioxanes). Structures e.g. comprising an inorganic support and an organic separation layer are also to be classified in B01D67/0079, and also in B01D69/10 (specific support) if applicable. In addition, the materials of the individual membrane layers of a composite membrane should be classified under B01D71/00 subgroups. The support material is, however, not classified in B01D71/00.

B01D67/0081: The after-treatment subgroups under B01D67/0081 apply if the membrane separation layer structure is basically maintained but modified in its properties (e.g. rendered hydrophilic or coated without closing the pores).

B01D67/0093: If specific (e.g. charged) groups are added to the polymer solution before membrane formation, B01D71/82 takes precedence.

Grafting supported by radiation or plasma is classified in B01D67/009.

B01D2323/42: This subgroup is used if details of the manufacturing apparatus are given (dies, roller arrangements, treatment chambers). Details of the spinneret for hollow fibre membranes are classified in B01D69/085.

**B01D 69/00**

**Relationships with other classification places**

Replace: The existing Relationships text with the following text.

In general, the production of membranes per se is classified under B01D67/00; however, production of hollow fibre membranes is classified under B01D69/08.

In situ polymerization processes, such as interfacial polymerization, are classified in B01D69/125.



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The spinning of hollow fibres is additionally classified in B01D69/087 and subgroups, and the production of specific shapes of membranes is classified in the relevant areas of B01D69/00.

Production of membrane modules is classified under B01D63/00.

Membrane materials are classified under B01D71/00.

Filter materials using woven or non-woven selective layers or loose particles for separation purposes are to be classified under B01D39/00.

The following fields have their own classification schemes for manufacture: Membranes specifically manufactured/adapted for application in fuel cells (H01M8/1018 and subgroups).

Production of ion exchange material films/membranes (C08J5/22).

Production of battery separators (H01M50/40).

## References

Delete: The entire Limiting references section.

## Informative references

Replace: The existing Informative references table with the following table.

Surface coating to prevent activation of blood	<a href="#">A61L33/00</a>
Membrane modules	<a href="#">B01D63/00</a>
Production processes for membranes other than hollow fibre spinning	<a href="#">B01D67/00</a>
Membrane material as such	<a href="#">B01D71/00</a>
Additives used in the membrane preparation	<a href="#">B01D2323/218</a>
Diffusers made of flexible or rigid material	<a href="#">B01F23/2312</a>
Catalysts, in general, characterised by their form or physical properties in the form of membranes	<a href="#">B01J35/065</a>
Production of catalysts by surface coating processes	<a href="#">B01J37/02</a>
Shaping by stretching	<a href="#">B29C55/00</a>
Surface treatment with plasma in general	<a href="#">B29C59/00</a>
Shaping composites, i.e. plastics material comprising reinforcements, fillers or preformed parts, e.g. inserts by	<a href="#">B29C70/845</a>

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moulding material on a relative small portion (e.g. hollow fibre potting) of the preformed parts	
Micro structural devices	B81B
Micromachined membranes	B81C1/00158
Tubular air diffusers	C02F3/201
After-treatment of mortars, concrete, artificial stone or ceramics by coating or impregnating	C04B41/45
Manufacture of films of plastics	C08J5/18
Manufacture of shaped structures of ion- exchange resin films, membranes, or diaphragms	C08J5/22
Electroless plating in general	C23C18/16
Aluminium anodization in general	C25D11/04
Formation of filaments (e.g. electro-spinning)	D01D5/00
Manufacture of hollow fibres	D01D5/24
Manufacture of hollow fibres/spinnerets therefore	D01F1/08
Hoses and pipes made of rubber	F16L11/12
Membranes for fuel cells	H01M8/1018
Constructional details or processes of manufacture of separators, membranes, diaphragms for batteries	H01M50/40

### Special rules of classification

Replace: The existing Special rules text with the following text.

#### **Classification of additional information:**

If the membrane manufacturing process is defined for a specific material or group of materials, the relevant groups under B01D71/00 are given in addition. In case of multiple layers, the material of each layer is specified by the respective subgroups under B01D71/00. Support structure materials are, however, not classified in B01D71/00.

#### **The classification of additional information is obligatory:**

The symbols under B01D61/00 are used as additional information if a membrane is specifically produced for a certain membrane process (as e.g. nanofiltration; B01D61/02, given as additional information).

#### **Subgroup and main group:**

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In general, the relevant subgroup is given and not the head group. If more than one subgroup of a single head group is relevant for a document, all these relevant subgroups are given.

**Further details of subgroups:**

B01D69/02 is used in combination with the relevant groups under B01D2325/00 if the manufacturing process results in specific properties of the membrane product.

B01D69/04 does not apply for honeycomb structures/monoliths with multiple channels. These kinds of devices are rather classified in B01D63/066. Only if, for example, special cross-sectional shapes of the channels or surface undulations are present, subgroups under B01D69/04 can be given in addition to B01D63/066.

B01D69/085 and B01D69/087: Spinning processes and spinnerets for hollow fibres. For further details of the phase inversion process of the spinning of hollow fibres, subgroups of B01D67/0009 can be given additionally.

B01D69/10: Specific membrane supports. B01D69/10 is used for supports not bonded to the selective membrane layer or if only details of the support layer are defined or if the type of support is very unique (as e.g. membranes supported in the pores).

B01D69/12: Composite membranes, i.e. comprising more than one layer, the layers being integrated. This subgroup is used if support and selective membrane layer form a composite structure, in which both parts are relevant (e.g. by means of the type of bonding or membrane formation or relation of parameters of the support and the selective layer). In particular, if each layer taken separately can be considered a semi-permeable membrane, the structure is considered to be a composite membrane.

B01D69/122 and B01D69/125: Subgroups B01D69/122 and B01D69/125 cover the manufacturing of ultra-thin (Thin film) membranes on a support and are given in addition to the relevant subgroups in B01D67/00.

B01D69/14: Mixed-matrix membranes, i.e. the separation layer comprises a heterogeneous mixture of at least two materials.

B01D69/141: This subgroup applies if the composition of the membrane solution is relevant for the coagulation process.

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## B01D 71/00

### Relationships with other classification places

Replace: The existing Relationships text with the following text.

Generally, the production methods of membranes are covered under B01D67/00.

Production of specific shapes of membranes falls within the relevant subgroups of B01D69/00.

Gas separation membranes characterised by their material are additionally classified under B01D53/228.

Filter materials using woven or non-woven selective layers or loose particles for separation purposes are classified in B01D39/00.

The following fields have their own classification schemes for manufacture:

Membrane specifically manufactured/adapted for the application in fuel cells (H01M8/1018 and subgroups).

The production of ion exchange material films/membranes (C08J5/22).

Production of battery separators (H01M50/40).

Double classification with groups of B01D67/00 may occur if the structures produced are suitable to be used in membrane separation processes.

C08 covers organic macromolecular compounds, their preparation or chemical working-up and compositions based thereon.

### References

Delete: The entire Limiting references section.

### Informative references

Insert: The following new rows into the existing Informative references table.

Surface coating to prevent activation of blood	<a href="#">A61L33/00</a>
Membrane production methods	<a href="#">B01D67/00</a>
Form, structure or properties of membrane materials	<a href="#">B01D69/00</a>

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Hollow-fibre membrane production	B01D69/08
Sorbents; zeolites, synthetic molecular sieves	B01J20/18
Catalysts comprising molecular sieves; zeolites	B01J29/00
Production of catalysts by surface-coating processes	B01J37/02
Shaping by stretching	B29C55/00
Surface treatment with plasma in general	B29C59/00
Shaping composites, i.e. plastics material comprising reinforcements, fillers or preformed parts, e.g. inserts by moulding material on a relatively small portion (e.g. hollow fibre potting) of the preformed parts	B29C70/845
Microstructural devices	B81B
Compounds having molecular sieve and base exchange properties	C01B39/00
After-treatment of mortars, concrete, artificial stone or ceramics by coating or impregnating	C04B41/45
Manufacture of films of plastics	C08J5/18
Electroless plating in general	C23C18/16
Aluminium anodisation in general	C25D11/04

### Special rules of classification

Replace: The existing Special rules text with the following text.

#### **Classification of additional information:**

If the membrane manufacturing process is defined for a specific material or group of materials, the relevant groups under B01D71/00 are given in addition.

#### **The classification of additional information is obligatory:**

The subgroup B01D69/02, in combination with the relevant subgroups under B01D2325/00, has to be used if the manufacturing process results in specific properties of the membrane product.

The respective subgroups under B01D61/00 are used if a membrane is specifically capable for a certain membrane process (as e.g. nanofiltration; B01D61/027).

If a mixed-matrix membrane is classified under B01D69/141, the material classification symbol of B01D71/00 of the continuous phase is given in addition if relevant.

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For a blend of two polymers in the separation layer both relevant groups are given.

Support materials according to B01D69/10 are not classified under B01D71/00.

In general, the relevant subgroup is given and not the head group. If more than one subgroup of a single head group is relevant for a document, all these relevant subgroups are given.

### **Further details of subgroups:**

B01D71/76: The individual copolymers in B01D71/76 are classified with symbols under B01D71/00.

B01D71/78 is given if a polymer is grafted before membrane formation. Otherwise B01D67/0093 applies.

B01D71/82 is given if a polymer solution is treated before membrane formation by adding specific groups. Otherwise B01D67/0093 applies.

## **B01D 2311/00**

### **Special rules of classification**

Replace: The existing Special rules text with the following text.

These subgroups describe additional information and are used in accordance with the Rules for B01D61/00 - B01D71/00.

### **Combination sets (C-Sets):**

#### **C-Sets statement:**

- In group B01D2311/00, additional process steps taking place before the plant starts operation (B01D61/02), in the feed stream (B01D61/04), in the permeate stream (B01D61/06) or the concentrate stream (B01D 61/08) are classified in the form of C-Sets.
- In these C-Sets, the base symbol is selected from B01D2311/02- B01D2311/08 whereas the subsequent symbol(s) representing the processes related to are taken from the groups B01D2311/10- B01D2311/2696. The base symbol identifies where the additional

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operation takes place and the subsequent symbols identify which process are carried out.

- All disclosed operations taking place in a process are classified in one C-Set for the feed, permeate or concentrate streams respectively.

**C-Sets syntax rules:**

- Each C-Sets can contain two or more symbols.
- The order of subsequent symbols in these C-Sets is not relevant.
- Alternative embodiments or operation are classified as separate C-Sets.

**C-Sets examples:**

Reverse osmosis process with

- the feed stream comprising a pre-filtration and an optional pH regulation of the feed or as an alternative to pH regulation, an ion exchange the permeate stream comprising a UV irradiation, is classified as (B01D2311/04, B01D2311/2649, B01D2311/18) (filtration and pH control in feed stream), (B01D2311/04, B01D2311/2649, B01D2311/2623) (alternative, filtration and ion exchange in feed stream) and (B01D2311/06, B01D2311/2619) (UV irradiation in permeate stream).

**B01D 2317/00**

Insert: The following new References/Informative references section.

**References**

**Informative references**

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

Membrane assemblies with one housing	<a href="#">B01D2319/00</a>
--------------------------------------	-----------------------------

**Special rules of classification**

Replace: The existing Special rules text with the following text.

The subgroups of B01D2317/00 describe additional information and are used in accordance with the Rules for subgroups B01D 61/00 - B01D 71/00.

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## **B01D 2319/00**

Insert: The following new References/Informative references section.

### **References**

### **Informative references**

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

Module or elements arrangements within a plant or an apparatus	<a href="#">B01D2317/00</a>
--	-----------------------------

### **Special rules of classification**

Replace: The existing Special rules text with the following text.

The subgroups of B01D2319/00 describes additional information and are used in accordance with the Rules for subgroups B01D 61/00 - B01D 71/00.



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3. REVISION CONCORDANCE LIST (RCL)

<u>Type*</u>	<u>From CPC Symbol (existing)</u>	<u>To CPC Symbol(s)</u>
C	B01D 61/002	B01D 61/002, B01D 61/0021, B01D 61/0022, B01D 61/0023, B01D 61/0024,
D	B01D 61/022	<administrative transfer to B01D 61/026>
Q	B01D 61/026	B01D 61/026, B01D 61/0271, B01D 61/029
C	B01D 61/08	B01D 61/08, B01D 61/081
D	B01D 61/142	<administrative transfer to B01D 61/146>
Q	B01D 61/146	B01D 61/146, B01D 61/1471, B01D 61/149
C	B01D 61/24	B01D 61/24, B01D 61/244, B01D 61/2461
C	B01D 61/243	B01D 61/243, B01D 61/244
C	B01D 61/246	B01D 61/246, B01D 61/2461
C	B01D 61/36	B01D 61/36, B01D 61/363, B01D 61/3631, B01D 61/365, B01D 61/3651
C	B01D 61/362	B01D 61/362, B01D 61/3621
C	B01D 61/364	B01D 61/364, B01D 61/3641
C	B01D 61/42	B01D 61/42, B01D 61/423, B01D 61/4251, B01D 61/4271, B01D 61/428, B01D 61/4281
C	B01D 61/422	B01D 61/422, B01D 61/423
C	B01D 61/425	B01D 61/425, B01D 61/4251
C	B01D 61/427	B01D 61/427, B01D 61/4271
C	B01D 61/46	B01D 61/46, B01D 61/461, B01D 61/462, B01D 61/463, B01D 61/464, B01D 61/465, B01D 61/466, B01D 61/467, B01D 61/468
C	B01D 63/02	B01D 63/02, B01D 63/031, B01D 63/032, B01D 63/033, B01D 63/034
C	B01D 63/021	B01D 63/021, B01D 63/0231, B01D 63/0232, B01D 63/0233
C	B01D 63/022	B01D 63/022, B01D 63/0221, B01D 63/0222, B01D 63/0223, B01D 63/0224, B01D 63/0225
C	B01D 63/024	B01D 63/024, B01D 63/0241
D	B01D 63/029	<administrative transfer to B01D 63/028>
C	B01D 63/06	B01D 63/06, B01D 63/069
C	B01D 63/08	B01D 63/08, B01D 63/089
C	B01D 63/082	B01D 63/082, B01D 63/0821, B01D 63/0822
C	B01D 63/10	B01D 63/10, B01D 63/101, B01D 63/107
C	B01D 63/103	B01D 63/103, B01D 63/1031
D	B01D 65/006	<administrative transfer to B01D 67/0097>
C	B01D 65/10	B01D 65/10, B01D 65/109
C	B01D 67/0004	B01D 67/0004, B01D 67/00041, B01D 67/00042, B01D 67/00043, B01D 67/00044, B01D 67/00045, B01D 67/00046
C	B01D 67/0009	B01D 67/0009, B01D 67/00091
C	B01D 67/0011	B01D 67/0011, B01D 67/00111, B01D 67/00113
C	B01D 67/0013	B01D 67/0013, B01D 67/00135
C	B01D 67/0016	B01D 67/0016, B01D 67/00165
C	B01D 67/003	B01D 67/003, B01D 67/0031
C	B01D 67/0039	B01D 67/0039, B01D 67/0049
C	B01D 67/0041	B01D 67/0041, B01D 67/00411, B01D 67/00412, B01D 67/00413, B01D 67/00414, B01D 67/00415, B01D 67/00416
C	B01D 67/0079	B01D 67/0079, B01D 67/00791, B01D 67/00793
C	B01D 67/0093	B01D 67/0093, B01D 67/00931, B01D 67/00933
C	B01D 69/06	B01D 69/06, B01D 69/061

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<b>Type*</b>	<b>From CPC Symbol (existing)</b>	<b>To CPC Symbol(s)</b>
C	B01D 69/087	B01D 69/087, B01D 69/0871
C	B01D 69/10	B01D 69/10, B01D 69/106, B01D 69/107, B01D 69/1071, B01D 69/108
C	B01D 69/12	B01D 69/12, B01D 69/1212, B01D 69/1213, B01D 69/1214, B01D 69/1216, B01D 69/1218
C	B01D 69/125	B01D 69/125, B01D 69/1251
C	B01D 69/141	B01D 69/141, B01D 69/1411, B01D 69/14111
C	B01D 71/02	B01D 71/02, B01D 71/0213, B01D 71/0215, B01D 71/05
C	B01D 71/021	B01D 71/021, B01D 71/0211, B01D 71/0212
C	B01D 71/022	B01D 71/022, B01D 71/0221, B01D 71/0223, B01D 71/02231, B01D 71/02232, B01D 71/0227
C	B01D 71/024	B01D 71/024, B01D 71/0271
C	B01D 71/028	B01D 71/028, B01D 71/0281
C	B01D 71/26	B01D 71/26, B01D 71/261, B01D 71/262
C	B01D 71/28	B01D 71/28, B01D 71/281, B01D 71/282, B01D 71/283
C	B01D 71/30	B01D 71/30, B01D 71/301
C	B01D 71/38	B01D 71/38, B01D 71/381, B01D 71/382, B01D 71/383
C	B01D 71/40	B01D 71/40, B01D 71/401, B01D 71/4011, B01D 71/402, B01D 71/403, B01D 71/404
C	B01D 71/42	B01D 71/42, B01D 71/421
C	B01D 71/44	B01D 71/44, B01D 71/441
C	B01D 71/48	B01D 71/48, B01D 71/481
C	B01D 71/52	B01D 71/52, B01D 71/521, B01D 71/5211, B01D 71/522, B01D 71/5221, B01D 71/5222, B01D 71/5223
C	B01D 71/60	B01D 71/60, B01D 71/601
C	B01D 71/64	B01D 71/64, B01D 71/641, B01D 71/642, B01D 71/643
C	B01D 71/66	B01D 71/66, B01D 71/69
C	B01D 71/70	B01D 71/70, B01D 71/701, B01D 71/702
C	B01D 2311/103	B01D 2311/103, B01D 2311/1031, B01D 2311/1032
C	B01D 2311/106	B01D 2311/106, B01D 2311/1061
C	B01D 2311/25	B01D 2311/25, B01D 2311/251, B01D 2311/2512, B01D 2311/2513, B01D 2311/252, B01D 2311/2521, B01D 2311/2523, B01D 2311/253, B01D 2311/2531, B01D 2311/2532
C	B01D 2311/26	B01D 2311/26, B01D 2311/2643, B01D 2311/2674, B01D 2311/2697, B01D 2311/2698, B01D 2311/2699
C	B01D 2313/00	B01D 2313/00, B01D 2313/60, B01D 2313/62, B01D 2313/64, B01D 2313/66, B01D 2313/68, B01D 2313/70, B01D 2313/701, B01D 2313/702
C	B01D 2313/04	B01D 2313/04, B01D 2313/041, B01D 2313/042
C	B01D 2313/13	B01D 2313/13, B01D 2313/131
C	B01D 2313/20	B01D 2313/20, B01D 2313/201, B01D 2313/2011, B01D 2313/203, B01D 2313/2031, B01D 2313/205, B01D 2313/206, B01D 2313/2061, B01D 2313/2062, B01D 2313/208
C	B01D 2313/22	B01D 2313/22, B01D 2313/221
C	B01D 2313/36	B01D 2313/36, B01D 2313/367
D	B01D 2313/38	<administrative transfer to B01D 2313/221>
C	B01D 2313/50	B01D 2313/50, B01D 2313/501, B01D 2313/502
C	B01D 2313/56	B01D 2313/56, B01D 2313/57

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<b>Type*</b>	<b>From CPC Symbol (existing)</b>	<b>To CPC Symbol(s)</b>
C	B01D 2313/90	B01D 2313/60, B01D 2313/62, B01D 2313/70, B01D 2313/701, B01D 2313/702, B01D 2313/90, B01D 2313/901, B01D 2313/902, B01D 2313/903
C	B01D 2315/00	B01D 2315/00, B01D 2315/17, B01D 2315/22, B01D 2315/24
C	B01D 2321/00	B01D 2321/00, B01D 2321/281, B01D 2321/282, B01D 2321/35, B01D 2321/42, B01D 2321/44
C	B01D 2321/16	B01D 2321/16, B01D 2321/167
D	B01D 2321/2091	<administrative transfer to B01D 65/04>
C	B01D 2323/00	B01D 2323/00, B01D 2323/15, B01D 2323/216, B01D 2323/217, B01D 2323/218, B01D 2323/2181, B01D 2323/21811, B01D 2323/21813, B01D 2323/21815, B01D 2323/21817, B01D 2323/21819, B01D 2323/2182, B01D 2323/21821, B01D 2323/21822, B01D 2323/21823, B01D 2323/21824, B01D 2323/21825, B01D 2323/21826, B01D 2323/21827, B01D 2323/21828, B01D 2323/21829, B01D 2323/2183, B01D 2323/21831, B01D 2323/21832, B01D 2323/21833, B01D 2323/21834, B01D 2323/21835, B01D 2323/21836, B01D 2323/21837, B01D 2323/21838, B01D 2323/21839, B01D 2323/2185, B01D 2323/2187, B01D 2323/2189, B01D 2323/219, B01D 2323/226, B01D 2323/52, B01D 2323/54, B01D 2323/56, B01D 2323/58, B01D 2323/60, B01D 2323/62, B01D 2323/64, B01D 2323/66
C	B01D 2323/08	B01D 2323/08, B01D 2323/081, B01D 2323/082
C	B01D 2325/00	B01D 2325/00, B01D 2325/39, B01D 2325/43, B01D 2325/50, B01D 2325/52, B01D 2325/54, B01D 2325/56, B01D 2325/58
C	B01D 2325/02	B01D 2325/02, B01D 2325/0281, B01D 2325/0282, B01D 2325/0283, B01D 2325/02831, B01D 2325/02832, B01D 2325/02833, B01D 2325/02834
C	B01D 2325/021	B01D 2325/021, B01D 2325/0212, B01D 2325/0214
C	B01D 2325/022	B01D 2325/022, B01D 2325/0231, B01D 2325/0232, B01D 2325/0233
C	B01D 2325/34	B01D 2325/34, B01D 2325/341
C	B01D 2325/44	B01D 2325/43, B01D 2325/44

\* 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>
B01D 61/0021	B01D 61/00	NEW
B01D 61/0022	B01D 61/00	NEW
B01D 61/0023	B01D 61/00	NEW
B01D 61/0024	B01D 61/00	NEW
B01D 61/022		DELETE
B01D 61/026	B01D 61/02	NEW
B01D 61/0271	B01D 61/02	NEW
B01D 61/029	B01D 61/02	NEW
B01D 61/081	B01D 61/08	NEW
B01D 61/142		DELETE
B01D 61/146	B01D 61/14	NEW
B01D 61/1471	B01D 61/14	NEW
B01D 61/149	B01D 61/14	NEW
B01D 61/244	B01D 61/24	NEW
B01D 61/2461	B01D 61/24	NEW
B01D 61/3621	B01D 61/36	NEW
B01D 61/363	B01D 61/36	NEW
B01D 61/3631	B01D 61/36	NEW
B01D 61/3641	B01D 61/36	NEW
B01D 61/365	B01D 61/36	NEW
B01D 61/3651	B01D 61/36	NEW
B01D 61/423	B01D 61/42	NEW
B01D 61/4251	B01D 61/42	NEW
B01D 61/4271	B01D 61/42	NEW
B01D 61/428	B01D 61/42	NEW
B01D 61/4281	B01D 61/42	NEW
B01D 61/461	B01D 61/46	NEW
B01D 61/462	B01D 61/46	NEW
B01D 61/463	B01D 61/46	NEW
B01D 61/464	B01D 61/46	NEW
B01D 61/465	B01D 61/46	NEW
B01D 61/466	B01D 61/46	NEW
B01D 61/467	B01D 61/46	NEW
B01D 61/468	B01D 61/46	NEW
B01D 63/0221	B01D 63/02	NEW
B01D 63/0222	B01D 63/02	NEW
B01D 63/0223	B01D 63/02	NEW
B01D 63/0224	B01D 63/02	NEW
B01D 63/0225	B01D 63/02	NEW
B01D 63/0231	B01D 63/02	NEW
B01D 63/0232	B01D 63/02	NEW

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<u>CPC</u>	<u>IPC</u>	<u>Action*</u>
B01D 63/0233	B01D 63/02	NEW
B01D 63/0241	B01D 63/02	NEW
B01D 63/029		DELETE
B01D 63/031	B01D 63/02	NEW
B01D 63/032	B01D 63/02	NEW
B01D 63/033	B01D 63/02	NEW
B01D 63/034	B01D 63/02	NEW
B01D 63/069	B01D 63/06	NEW
B01D 63/0821	B01D 63/08	NEW
B01D 63/0822	B01D 63/08	NEW
B01D 63/089	B01D 63/08	NEW
B01D 63/101	B01D 63/10	NEW
B01D 63/1031	B01D 63/10	NEW
B01D 63/107	B01D 63/10	NEW
B01D 65/006		DELETE
B01D 65/109	B01D 65/10	NEW
B01D 67/00041	B01D 67/00	NEW
B01D 67/00042	B01D 67/00	NEW
B01D 67/00043	B01D 67/00	NEW
B01D 67/00044	B01D 67/00	NEW
B01D 67/00045	B01D 67/00	NEW
B01D 67/00046	B01D 67/00	NEW
B01D 67/00091	B01D 67/00	NEW
B01D 67/00111	B01D 67/00	NEW
B01D 67/00113	B01D 67/00	NEW
B01D 67/00135	B01D 67/00	NEW
B01D 67/00165	B01D 67/00	NEW
B01D 67/0031	B01D 67/00	NEW
B01D 67/00411	B01D 67/00	NEW
B01D 67/00412	B01D 67/00	NEW
B01D 67/00413	B01D 67/00	NEW
B01D 67/00414	B01D 67/00	NEW
B01D 67/00415	B01D 67/00	NEW
B01D 67/00416	B01D 67/00	NEW
B01D 67/0049	B01D 67/00	NEW
B01D 67/00791	B01D 67/00	NEW
B01D 67/00793	B01D 67/00	NEW
B01D 67/00931	B01D 67/00	NEW
B01D 67/00933	B01D 67/00	NEW
B01D 69/061	B01D 69/06	NEW
B01D 69/0871	B01D 69/08	NEW
B01D 69/106	B01D 69/10	NEW
B01D 69/107	B01D 69/10	NEW
B01D 69/1071	B01D 69/10	NEW

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<u>CPC</u>	<u>IPC</u>	<u>Action*</u>
B01D 69/108	B01D 69/10	NEW
B01D 69/1212	B01D 69/12	NEW
B01D 69/1213	B01D 69/12	NEW
B01D 69/1214	B01D 69/12	NEW
B01D 69/1216	B01D 69/12	NEW
B01D 69/1218	B01D 69/12	NEW
B01D 69/1251	B01D 69/12	NEW
B01D 69/1411	B01D 69/14	NEW
B01D 69/14111	B01D 69/14	NEW
B01D 71/0211	B01D 71/02	NEW
B01D 71/0212	B01D 71/02	NEW
B01D 71/0213	B01D 71/02	NEW
B01D 71/0215	B01D 71/02	NEW
B01D 71/0221	B01D 71/02	NEW
B01D 71/0223	B01D 71/02	NEW
B01D 71/02231	B01D 71/02	NEW
B01D 71/02232	B01D 71/02	NEW
B01D 71/0227	B01D 71/02	NEW
B01D 71/0271	B01D 71/02	NEW
B01D 71/0281	B01D 71/02	NEW
B01D 71/05	B01D 71/02	NEW
B01D 71/261	B01D 71/26	NEW
B01D 71/262	B01D 71/26	NEW
B01D 71/281	B01D 71/28	NEW
B01D 71/282	B01D 71/28	NEW
B01D 71/283	B01D 71/28	NEW
B01D 71/301	B01D 71/30	NEW
B01D 71/381	B01D 71/38	NEW
B01D 71/382	B01D 71/38	NEW
B01D 71/383	B01D 71/38	NEW
B01D 71/401	B01D 71/40	NEW
B01D 71/4011	B01D 71/40	NEW
B01D 71/402	B01D 71/40	NEW
B01D 71/403	B01D 71/40	NEW
B01D 71/404	B01D 71/40	NEW
B01D 71/421	B01D 71/42	NEW
B01D 71/441	B01D 71/44	NEW
B01D 71/481	B01D 71/48	NEW
B01D 71/521	B01D 71/52	NEW
B01D 71/5211	B01D 71/52	NEW
B01D 71/522	B01D 71/52	NEW
B01D 71/5221	B01D 71/52	NEW
B01D 71/5222	B01D 71/52	NEW
B01D 71/5223	B01D 71/52	NEW

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<u>CPC</u>	<u>IPC</u>	<u>Action*</u>
B01D 71/601	B01D 71/60	NEW
B01D 71/641	B01D 71/64	NEW
B01D 71/642	B01D 71/64	NEW
B01D 71/643	B01D 71/64	NEW
B01D 71/69	B01D 71/66	NEW
B01D 71/701	B01D 71/70	NEW
B01D 71/702	B01D 71/70	NEW
B01D 2311/1031	CPCONLY	NEW
B01D 2311/1032	CPCONLY	NEW
B01D 2311/1061	CPCONLY	NEW
B01D 2311/251	CPCONLY	NEW
B01D 2311/2512	CPCONLY	NEW
B01D 2311/2513	CPCONLY	NEW
B01D 2311/252	CPCONLY	NEW
B01D 2311/2521	CPCONLY	NEW
B01D 2311/2523	CPCONLY	NEW
B01D 2311/253	CPCONLY	NEW
B01D 2311/2531	CPCONLY	NEW
B01D 2311/2532	CPCONLY	NEW
B01D 2311/2643	CPCONLY	NEW
B01D 2311/2674	CPCONLY	NEW
B01D 2311/2697	CPCONLY	NEW
B01D 2311/2698	CPCONLY	NEW
B01D 2311/2699	CPCONLY	NEW
B01D 2313/041	CPCONLY	NEW
B01D 2313/042	CPCONLY	NEW
B01D 2313/131	CPCONLY	NEW
B01D 2313/201	CPCONLY	NEW
B01D 2313/2011	CPCONLY	NEW
B01D 2313/203	CPCONLY	NEW
B01D 2313/2031	CPCONLY	NEW
B01D 2313/205	CPCONLY	NEW
B01D 2313/206	CPCONLY	NEW
B01D 2313/2061	CPCONLY	NEW
B01D 2313/2062	CPCONLY	NEW
B01D 2313/208	CPCONLY	NEW
B01D 2313/221	CPCONLY	NEW
B01D 2313/367	CPCONLY	NEW
B01D 2313/38		DELETE
B01D 2313/501	CPCONLY	NEW
B01D 2313/502	CPCONLY	NEW
B01D 2313/57	CPCONLY	NEW
B01D 2313/60	CPCONLY	NEW
B01D 2313/62	CPCONLY	NEW

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<u>CPC</u>	<u>IPC</u>	<u>Action*</u>
B01D 2313/64	CPCONLY	NEW
B01D 2313/66	CPCONLY	NEW
B01D 2313/68	CPCONLY	NEW
B01D 2313/70	CPCONLY	NEW
B01D 2313/701	CPCONLY	NEW
B01D 2313/702	CPCONLY	NEW
B01D 2313/901	CPCONLY	NEW
B01D 2313/902	CPCONLY	NEW
B01D 2313/903	CPCONLY	NEW
B01D 2315/17	CPCONLY	NEW
B01D 2315/22	CPCONLY	NEW
B01D 2315/24	CPCONLY	NEW
B01D 2321/167	CPCONLY	NEW
B01D 2321/2091		DELETE
B01D 2321/281	CPCONLY	NEW
B01D 2321/282	CPCONLY	NEW
B01D 2321/35	CPCONLY	NEW
B01D 2321/42	CPCONLY	NEW
B01D 2321/44	CPCONLY	NEW
B01D 2323/081	CPCONLY	NEW
B01D 2323/082	CPCONLY	NEW
B01D 2323/15	CPCONLY	NEW
B01D 2323/216	CPCONLY	NEW
B01D 2323/217	CPCONLY	NEW
B01D 2323/218	CPCONLY	NEW
B01D 2323/2181	CPCONLY	NEW
B01D 2323/21811	CPCONLY	NEW
B01D 2323/21813	CPCONLY	NEW
B01D 2323/21815	CPCONLY	NEW
B01D 2323/21817	CPCONLY	NEW
B01D 2323/21819	CPCONLY	NEW
B01D 2323/2182	CPCONLY	NEW
B01D 2323/21821	CPCONLY	NEW
B01D 2323/21822	CPCONLY	NEW
B01D 2323/21823	CPCONLY	NEW
B01D 2323/21824	CPCONLY	NEW
B01D 2323/21825	CPCONLY	NEW
B01D 2323/21826	CPCONLY	NEW
B01D 2323/21827	CPCONLY	NEW
B01D 2323/21828	CPCONLY	NEW
B01D 2323/21829	CPCONLY	NEW
B01D 2323/2183	CPCONLY	NEW
B01D 2323/21831	CPCONLY	NEW
B01D 2323/21832	CPCONLY	NEW



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<u>CPC</u>	<u>IPC</u>	<u>Action*</u>
B01D 2323/21833	CPCONLY	NEW
B01D 2323/21834	CPCONLY	NEW
B01D 2323/21835	CPCONLY	NEW
B01D 2323/21836	CPCONLY	NEW
B01D 2323/21837	CPCONLY	NEW
B01D 2323/21838	CPCONLY	NEW
B01D 2323/21839	CPCONLY	NEW
B01D 2323/2185	CPCONLY	NEW
B01D 2323/2187	CPCONLY	NEW
B01D 2323/2189	CPCONLY	NEW
B01D 2323/219	CPCONLY	NEW
B01D 2323/226	CPCONLY	NEW
B01D 2323/52	CPCONLY	NEW
B01D 2323/54	CPCONLY	NEW
B01D 2323/56	CPCONLY	NEW
B01D 2323/58	CPCONLY	NEW
B01D 2323/60	CPCONLY	NEW
B01D 2323/62	CPCONLY	NEW
B01D 2323/64	CPCONLY	NEW
B01D 2323/66	CPCONLY	NEW
B01D 2325/0212	CPCONLY	NEW
B01D 2325/0214	CPCONLY	NEW
B01D 2325/0231	CPCONLY	NEW
B01D 2325/0232	CPCONLY	NEW
B01D 2325/0233	CPCONLY	NEW
B01D 2325/0281	CPCONLY	NEW
B01D 2325/0282	CPCONLY	NEW
B01D 2325/0283	CPCONLY	NEW
B01D 2325/02831	CPCONLY	NEW
B01D 2325/02832	CPCONLY	NEW
B01D 2325/02833	CPCONLY	NEW
B01D 2325/02834	CPCONLY	NEW
B01D 2325/341	CPCONLY	NEW
B01D 2325/39	CPCONLY	NEW
B01D 2325/43	CPCONLY	NEW
B01D 2325/50	CPCONLY	NEW
B01D 2325/52	CPCONLY	NEW
B01D 2325/54	CPCONLY	NEW
B01D 2325/56	CPCONLY	NEW
B01D 2325/58	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.”

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