

EUROPEAN PATENT OFFICE
U.S. PATENT AND TRADEMARK OFFICE

CPC NOTICE OF CHANGES 1372

DATE: JANUARY 1, 2023

PROJECT RP11765

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

<u>Action</u>	<u>Subclass</u>	<u>Group(s)</u>
SCHEME:		
Symbols Deleted:	C02F	9/005
Symbols New:	C02F	9/20
Titles Changed:	C02F	9/00
Warnings Modified:	C02F	Subclass
Notes Modified:	C02F	9/00
DEFINITIONS:		
Definitions Deleted: (no frozen (F) symbol definitions should be deleted)	C02F	9/005
Definitions New:	C02F	9/20
Definitions Modified:	C02F	SUBCLASS
	C02F	9/00

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

C02F 1/003, B01D 61/00, E03B 3/00

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

1. CLASSIFICATION SCHEME CHANGES

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

2. DEFINITIONS

- A. New or Modified Definitions (Full definition template)
- B. Modified or Deleted Definitions (Definitions Quick Fix)

3. REVISION CONCORDANCE LIST (RCL)

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

5. CHANGES TO THE CROSS-REFERENCE LIST (CRL)

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1. CLASSIFICATION SCHEME CHANGES

A. New, Modified or Deleted Group(s)

SUBCLASS C02F - TREATMENT OF WATER, WASTE WATER, SEWAGE, OR SLUDGE (separation in general B01D; special arrangements on waterborne vessels of installations for treating water, waste water or sewage, e.g. for producing fresh water, B63J; adding materials to water to prevent corrosion C23F; treating radioactively-contaminated liquids G21F 9/04; regeneration of reactants for recirculation into processes, see the relevant places for the processes)

<u>Type*</u>	<u>Symbol</u>	<u>Indent Level Number of dots (e.g. 0, 1, 2)</u>	<u>Title</u> <u>“CPC only” text should normally be enclosed in {curly brackets}**</u>	<u>Transferred to[#]</u>
M	C02F 9/00	0	Multistage treatment of water, waste water or sewage	
D	C02F 9/005	1	{Portable or detachable small-scale multistage treatment devices, e.g. point of use or laboratory water purification systems (single-stage processes in combination with filtration techniques C02F 1/002 or C02F 1/003)}	< administrative transfer to C02F 9/20 >
N	C02F 9/20	1	Portable or detachable small-scale multistage treatment devices, e.g. point of use or laboratory water purification systems	

*N = new entries where reclassification into entries is involved; C = entries with modified file scope where reclassification of documents from the entries is involved; Q = new entries which are firstly populated with documents via administrative transfers from deleted (D) entries. Afterwards, the transferred documents into the Q entry will either stay or be moved to more appropriate entries, as determined by intellectual reclassification; T = existing entries with enlarged file scope, which receive documents from C or D entries, e.g. when a limiting reference is removed from the entry title; M = entries with no change to the file scope (no reclassification); D = deleted entries; F = frozen entries will be deleted once reclassification of documents from the entries is completed; U = entries that are unchanged.

NOTES:

- **No {curly brackets} are used for titles in CPC only subclasses, e.g. C12Y, A23Y; 2000 series symbol titles of groups found at the end of schemes (orthogonal codes); or the Y section titles. The {curly brackets} are used for 2000 series symbol titles found interspersed throughout the main trunk schemes (breakdown codes).
- U groups: it is obligatory to display the required “anchor” symbol (U group), i.e. the entry immediately preceding a new group or an array of new groups to be created (in case new groups are not clearly subgroups of C-type groups). Always include the symbol, indent level and title of the U group in the table above.
- All entry types should be included in the scheme changes table above for better understanding of the overall scheme change picture. Symbol, indent level, and title are required for all types.
- “Transferred to” column must be completed for all C, D, F, and Q type entries. F groups will be deleted once reclassification is completed.
- When multiple symbols are included in the “Transferred to” column, avoid using ranges of symbols in order to be as precise as possible.

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- For administrative transfer of documents, the following text should be used: “< administrative transfer to XX>”, “<administrative transfer to XX and YY simultaneously>”, or “<administrative transfer to XX, YY, ...and ZZ simultaneously>” when administrative transfer of the same documents is to more than one place.
- Administrative transfer to main trunk groups is assumed to be the source allocation type, unless otherwise indicated.
- Administrative transfer to 2000/Y series groups is assumed to be “additional information”.
- If needed, instructions for allocation type should be indicated within the angle brackets using the abbreviations “ADD” or “INV”: <administrative transfer to XX ADD>, <administrative transfer to XX INV>, or < administrative transfer to XX ADD, YY INV, ... and ZZ ADD simultaneously>.
- In certain situations, the “D” entries of 2000-series or Y-series groups may not require a destination (“Transferred to”) symbol, however it is required to specify “<no transfer>” in the “Transferred to” column for such cases.
- For finalisation projects, the deleted “F” symbols should have <no transfer> in the “Transferred to” column.
- For more details about the types of scheme change, see CPC Guide.

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B. New, Modified or Deleted Warning(s)

SUBCLASS C02F - TREATMENT OF WATER, WASTE WATER, SEWAGE, OR SLUDGE (separation in general B01D; special arrangements on waterborne vessels of installations for treating water, waste water or sewage, e.g. for producing fresh water, B63J; adding materials to water to prevent corrosion C23F; treating radioactively-contaminated liquids G21F 9/04; regeneration of reactants for recirculation into processes, see the relevant places for the processes)

<u>Type*</u>	<u>Location</u>	<u>Old Warning</u>	<u>New/Modified Warning</u>
M	C02F	<p>1. The following IPC groups are not in the CPC scheme. The subject matter for these IPC groups is classified in the following CPC groups: C02F9/02-C02F9/14 covered by C02F 9/00 and subgroup</p> <p>2. In this subclass non-limiting references (in the sense of paragraph 39 of the Guide to the IPC) may still be displayed in the scheme.</p>	{In this subclass non-limiting references (in the sense of paragraph 39 of the Guide to the IPC) may still be displayed in the scheme.}

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

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

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C. New, Modified or Deleted Note(s)

SUBCLASS C02F - TREATMENT OF WATER, WASTE WATER, SEWAGE, OR SLUDGE (separation in general B01D; special arrangements on waterborne vessels of installations for treating water, waste water or sewage, e.g. for producing fresh water, B63J; adding materials to water to prevent corrosion C23F; treating radioactively-contaminated liquids G21F 9/04; regeneration of reactants for recirculation into processes, see the relevant places for the processes)

<u>Type*</u>	<u>Location</u>	<u>Old Notes</u>	<u>New/Modified Notes</u>
M	C02F 9/00	<p>1. This group covers only those combined treating operations where the interest is directed to the relationship between the steps.</p> <p>2. This group does not cover, for example, chemical treatment followed by settlement or biological treatment involving normal mechanical treatment.</p> <p>3. In this group, 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.</p>	<p>1. This group <u>covers</u> combined treatment operations, carried out in a defined order in three or more different treatment stages, each stage occurring in a separate location, e.g. apparatus, reactor or compartment.</p> <p>2. This group <u>does not cover</u> treatments where the essential characteristic resides in an individual step of the treatment, which treatments are covered by groups C02F 1/00-C02F 7/00.</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.

2. A. DEFINITIONS (new)

C02F9/20

Definition statement

This place covers:

Processes incorporating several treatment steps in a compact, transportable device in the size of a small cupboard, e.g. filter units on wheels, laboratory devices for ultrapure water production or dispensers comprising advanced water treatment.

References

Informative references

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

Small transportable filters	C02F1/002
Household type filters	C02F1/003

2. A. DEFINITIONS (modified)

C02F

Definition statement

Replace: The existing Definition statement with the modified one below.

The physical, chemical and biological treatment of water, waste water or sewage, e.g. by distillation or evaporation, by degassing, by centrifugal separation, by flocculation of suspended impurities or by using plants such as algae.

Selection or use of compositions for such treatments.

Compositions (per se) specially adapted for water treatment.

Softening water and preventing scale; Adding scale preventatives or scale removers to water, e.g. adding sequestering agents.

Aeration of stretches of water.

Multistage treatment of water, waste water or sewage.

Treatment of sludge and devices therefore, e.g. bioreactors. Sludge treatment covered in this subclass is usually restricted to the treatment of sludge obtained from a water treatment process.

Devices for the treatment of water, waste water or sewage, e.g. devices for separating or removing fatty or oily substances or similar floating material.

Relationships with other classification places

Insert: A period at the end of the SECOND paragraph as shown below:

Making potable water by desalination or solar evaporation is classified in C02F and apparatus for separation in general are classified in B01D.

References

Limiting references

Replace: The existing Limiting references table with the updated one below.

Processes for making harmful chemical substances harmless, or less harmful, by effecting a chemical change in the substances	A62D 3/00
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Settling tanks and filter devices in general	B01D
Adding materials to water to prevent corrosion	C23F
Cleaning or keeping clear the surface of open water, e.g. the sea	E02B 15/00
Devices for cleaning or keeping clear the surface of open water	E02B 15/04
Methods for obtaining or collecting drinking water or tap water	E03B 3/00
Treating radioactively-contaminated liquids	G21F 9/04

Application-oriented references

Insert: New Application-oriented references section and table.

Special arrangements on waterborne vessels of installations for producing fresh water	B63J 1/00
Special arrangements on waterborne vessels of installations for treating waste water or sewage	B63J 4/00

Informative references

Replace: The existing Informative references table with the updated one below.

Medicinal water	A61K
Degasification of liquids in general	B01D 19/00
Ion-exchange in general	B01J
Packing elements in general	B01J 19/32
Devices in sewers for separating liquid or solid substances from sewage	E03F 5/14
Methods of steam generation	F22B
Preheating boiler feed-water or accumulating preheated boiler feed-water	F22D
Incinerators or other apparatus for burning waste liquors	F23G 7/04

Special rules of classification

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Replace: The existing Special rules of classification section text AND table with the updated text and table below.

When classifying in this subclass, classification is also made in group B01D 15/08 insofar as subject matter of general interest relating to chromatography is concerned.

It is desirable to add the indexing symbols of group C02F 2101/00 for the nature of the contaminant and of group C02F 2103/00 for the nature of the water, waste water, sewage or sludge to be treated which are considered to be of interest for search.

Devices are only classified in detail if there is no appropriate, more general place available and if they are clearly related to the water treatment aspect (i.e. if they are not universally applicable). The following symbols can be considered for classifying additional information:

Specifying the nature of the contaminant	C02F 2101/00 - C02F 2101/40
Specifying the nature of water, waste water or sludge to be treated	C02F 2103/00 - C02F 2103/42
Details of the apparatus used for treatment of water, wastewater or sludge	C02F 2201/00 - C02F 2201/784
Specifying details of the apparatus and plants for the biological treatment of water, wastewater or sewage	C02F 2203/00
Controlling or monitoring parameters in water treatment	C02F 2209/00 - C02F 2209/445
Specifying general aspects of water treatment	C02F 2301/00 - C02F 2301/08
Specific treatment goals	C02F 2303/00 - C02F 2303/20
The use of specific compounds in water treatment	C02F 2305/00 - C02F 2305/10
The location of water treatment or water treatment device	C02F 2307/00 - C02F 2307/08

Glossary of terms

Replace: The explanatory text for "Sludge" with the updated text below.

Sludge	Solids that remain after wastewater treatment. This material may be separated, treated and composted into fertiliser. Aqueous suspension of solids resulting from water treatment processes and having a solids concentration of typically more than 2 g/L.
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C02F9/00

Definition statement

Replace: The existing Definition statement with the modified one below.

Treatment operations, carried out in a defined order in three or more different treatment stages, each stage occurring in a separate location, e.g. apparatus, reactor or compartment.

Special rules of classification

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

Group C02F 9/00 does not cover treatments, where the essential characteristic resides in an individual step of the treatment, which treatments are covered by groups C02F 1/00-C02F 7/00. Any individual step of a multistep treatment which is considered to represent information of interest for search, may also be classified in one or more of groups C02F 1/00-C02F 1/56 or C02F 1/66-C02F 7/00 as "additional information".

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2. B. DEFINITIONS QUICK FIX

<u>Symbol</u>	<u>Location of change</u> (e.g., section title)	<u>Existing reference symbol or text</u>	<u>Action; New symbol; New text</u>
C02F 9/005	Definition		DELETE entire definition

NOTES:

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

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3. REVISION CONCORDANCE LIST (RCL)

<u>Type*</u>	<u>From CPC Symbol (existing)</u>	<u>To CPC Symbol(s)</u>
D	C02F9/005	<administrative transfer to C02F9/20>

* 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>
C02F9/005		DELETE
C02F9/20	C02F9/20	NEW

*Action column:

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

NOTES:

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

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5. CROSS-REFERENCE LIST (CRL)

Scheme references impacted by this revision project

<u>Location of reference to be changed</u>	<u>Referenced subclass or group to be changed</u>	<u>Action; New reference symbol; New text</u>
C02F 1/003	C02F 9/005	New symbol: C02F 9/20

Definitions references impacted by this revision project

<u>Location of reference to be changed</u>	<u>Referenced subclass or group to be changed</u>	<u>Section of definition</u>	<u>Action; New reference symbol; New text</u>
C02F 1/003	C02F 9/005	Limiting reference table	New reference symbol: C02F 9/20
B01D 61/00	C02F 9/005	Informative reference table	New reference symbol: C02F 9/20
E03B 3/00	C02F 9/005	Special Rules of Classification	New reference symbol: C02F 9/20

NOTES:

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