

EUROPEAN PATENT OFFICE
U.S. PATENT AND TRADEMARK OFFICE

CPC NOTICE OF CHANGES 1407

DATE: FEBRUARY 1, 2023

PROJECT MP11910

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

<u>Action</u>	<u>Subclass</u>	<u>Group(s)</u>
SCHEME:		
Titles Changed:	B03C	Subclass
	B03C	1/029, 1/32
	B03C	3/00, 3/02, 3/32, 3/38, 3/68
	B03C	5/00
Warnings Modified:	B03C	Subclass
DEFINITIONS:		
Definitions Modified:	B03C	Subclass
	B03C	1/00, 1/005, 1/025, 1/029, 1/10, 1/247, 1/28, 1/32
	B03C	3/00, 3/011, 3/014, 3/019, 3/02, 3/06, 3/155, 3/16, 3/32, 3/36, 3/38, 3/40, 3/41, 3/53, 3/68, 3/70, 3/74, 3/78, 3/82, 3/84, 3/86
	B03C	5/00, 5/02
	B03C	9/00
	B03C	11/00

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)
- 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)

DATE: FEBRUARY 1, 2023

PROJECT MP11910

1. CLASSIFICATION SCHEME CHANGES

A. New, Modified or Deleted Group(s)

SUBCLASS B03C - MAGNETIC OR ELECTROSTATIC SEPARATION OF SOLID MATERIALS FROM SOLID MATERIALS OR FLUIDS; SEPARATION BY HIGH-VOLTAGE ELECTRIC FIELDS (filters making use of electricity or magnetism B01D 35/06; separating isotopes B01D 59/00; combinations of magnetic or electrostatic separation with separation of solids by other means B03B, B07B; separating sheets from piles B65H 3/00; magnets or magnet coils per se H01F)

<u>Type*</u>	<u>Symbol</u>	<u>Indent Level Number of dots (e.g. 0, 1, 2)</u>	<u>Title</u> “CPC only” text should normally be enclosed in {curly brackets}**	<u>Transferred to#</u>
M	B03C	Subclass	MAGNETIC OR ELECTROSTATIC SEPARATION OF SOLID MATERIALS FROM SOLID MATERIALS OR FLUIDS; SEPARATION BY HIGH-VOLTAGE ELECTRIC FIELDS (separating isotopes B01D 59/00; combinations of magnetic or electrostatic separation with separation of solids by other means B03B, B07B)	
M	B03C 1/029	3	with circulating matrix or matrix elements	
M	B03C 1/32	1	acting on the medium containing the substance being separated, e.g. magneto-gravimetric-, magnetohydrostatic-, or magnetohydrodynamic separation	
M	B03C 3/00	0	Separating dispersed particles from gases or vapour, e.g. air, by electrostatic effect	
M	B03C 3/02	1	Plant or installations having external electricity supply	
M	B03C 3/32	1	Transportable units, e.g. for cleaning room air	
M	B03C 3/38	2	Particle charging or ionising stations, e.g. using electric discharge, radioactive radiation or flames	
U	B03C 3/66	2	Applications of electricity supply techniques	
M	B03C 3/68	3	Control systems therefor {(electricity supply or control systems for cleaning the electrodes B03C 3/746, B03C 3/763)}	
M	B03C 5/00	0	Separating dispersed particles from liquids by electrostatic effect ({flocculation or agglomeration of electric particles induced by electric field B01D 21/0009;} combined with centrifuges B04B 5/10)	

*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.

CPC NOTICE OF CHANGES 1407

DATE: FEBRUARY 1, 2023

PROJECT MP11910

NOTES:

- **No { curly brackets } are used for titles in CPC only subclasses, e.g. C12Y, A23Y; 2000 series symbol titles of groups found at the end of schemes (orthogonal codes); or the Y section titles. The { curly brackets } are used for 2000 series symbol titles found interspersed throughout the main trunk schemes (breakdown codes).
- U groups: it is obligatory to display the required “anchor” symbol (U group), i.e. the entry immediately preceding a new group or an array of new groups to be created (in case new groups are not clearly subgroups of C-type groups). Always include the symbol, indent level and title of the U group in the table above.
- All entry types should be included in the scheme changes table above for better understanding of the overall scheme change picture. Symbol, indent level, and title are required for all types.
- “Transferred to” column must be completed for all C, D, F, and Q type entries. F groups will be deleted once reclassification is completed.
- When multiple symbols are included in the “Transferred to” column, avoid using ranges of symbols in order to be as precise as possible.
- For administrative transfer of documents, the following text should be used: “< administrative transfer to XX>”, “<administrative transfer to XX and YY simultaneously>”, or “<administrative transfer to XX, YY, ...and ZZ simultaneously>” when administrative transfer of the same documents is to more than one place.
- Administrative transfer to main trunk groups is assumed to be the source allocation type, unless otherwise indicated.
- Administrative transfer to 2000/Y series groups is assumed to be “additional information”.
- If needed, instructions for allocation type should be indicated within the angle brackets using the abbreviations “ADD” or “INV”: <administrative transfer to XX ADD>, <administrative transfer to XX INV>, or < administrative transfer to XX ADD, YY INV, ... and ZZ ADD simultaneously>.
- In certain situations, the “D” entries of 2000-series or Y-series groups may not require a destination (“Transferred to”) symbol, however it is required to specify “<no transfer>” in the “Transferred to” column for such cases.
- For finalisation projects, the deleted “F” symbols should have <no transfer> in the “Transferred to” column.
- For more details about the types of scheme change, see CPC Guide.

CPC NOTICE OF CHANGES 1407

DATE: FEBRUARY 1, 2023

PROJECT MP11910

B. New, Modified or Deleted Warning(s)

SUBCLASS B03C - MAGNETIC OR ELECTROSTATIC SEPARATION OF SOLID MATERIALS FROM SOLID MATERIALS OR FLUIDS; SEPARATION BY HIGH-VOLTAGE ELECTRIC FIELDS (filters making use of electricity or magnetism B01D 35/06; separating isotopes B01D 59/00; combinations of magnetic or electrostatic separation with separation of solids by other means B03B, B07B; separating sheets from piles B65H 3/00; magnets or magnet coils per se H01F)

<u>Type*</u>	<u>Location</u>	<u>Old Warning</u>	<u>New/Modified Warning</u>
M	B03C	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.	{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.

2. A. DEFINITIONS (modified)

B03C

Insert: The following new Relationships section:

Relationships with other classification places

B01D is the general subclass for separation. This subclass, B03C, covers magnetic or electrostatic separation of solid materials from solid materials or fluids, as well as separation by high-voltage electric fields. However, separation of isotopes by high-voltage electric fields or by magnetic or electrostatic separation is covered by main group B01D 59/00.

References

Limiting references

Delete: The following row from the Limiting references table:

Filters making use of electricity or magnetism	B01D 35/06
--	----------------------------

Informative references

Insert: The following new row into the Informative references table:

Filters making use of electricity or magnetism	B01D 35/06
--	----------------------------

B03C 1/00

References

Delete: The entire Limiting references section.

DATE: FEBRUARY 1, 2023

PROJECT MP11910

Informative references

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

Separation, e.g. filters in general	B01D
Processes for separating dispersed particles from gases or vapours by gravity, inertia or centrifugal forces	B01D 45/00, B01D 45/12
Combinations of cyclones with filters, for separating particles from gases or vapours	B01D 50/00
Processes for separation of gases or vapours or for recovering vapours of volatile solvents from gases by centrifugal force	B01D 53/24
Flotation; Differential sedimentation	B03D
Devices for separating or removing fatty or oily substances or similar floating material from water, waste water or sewage	C02F 1/40
Device in sewers for separating liquid or solid substances from sewage	E03F 5/14
Chemical analysis of biological material	G01N 33/50
Measuring, investigating or testing electric or magnetic properties of materials	G01R
Materials for magnets or magnetic bodies	H01F 1/00

Special rules of classification

Replace: The existing Special rules text and table with the following revised text:

The following indexing symbols are used:

- Magnetic separation of gases from gases, e.g. oxygen from air, is classified with indexing symbol B03C 2201/16.
- Magnetic separation of particles suspended in a liquid is classified with indexing symbol B03C 2201/18.
- Magnetic separation of particles that are in a solid form is classified with indexing symbol B03C 2201/20.
- Magnetic separation characterised by magnetic field, special shape or generation is classified with indexing symbol B03C 2201/22.
- Magnetic separation characterised by parts that are easily removable for cleaning purposes is classified with indexing symbol B03C 2201/28.
- Magnetic separation used in or with vehicles is classified with indexing symbol B03C 2201/30.

DATE: FEBRUARY 1, 2023

PROJECT MP11910

B03C 1/005

References

Informative references

Replace: The symbol in the second row of the Informative references table so that the second row reads as follows:

Magnetic liquids	H01F 1/44
------------------	-----------

B03C 1/025

Definition statement

Replace: The existing Definition statement text with the following revised text:

Magnetic separation devices that use high gradient magnetic fields.

References

Delete: The entire Limiting references section.

Insert: The following new Informative references section:

Informative references

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

Magnetic separation methods that use high gradient magnetic fields	B03C 1/002
--	------------

DATE: FEBRUARY 1, 2023

PROJECT MP11910

B03C 1/029

References

Delete: The entire Limiting references section.

Insert: The following new Informative references section:

Informative references

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

Matrix elements	B03C 1/034
-----------------	----------------------------

B03C 1/10

Definition statement

Replace: The existing Definition statement text with the following revised:

Magnetic separation in which either (a) the material to be separated or (b) the separated material is moved with cylindrical means.

References

Limiting references

Replace: The existing text so that the Limiting references table appears as follows:

With material carried by travelling fields obtained by a rotating drum	B03C 1/247
--	----------------------------

DATE: FEBRUARY 1, 2023

PROJECT MP11910

B03C 1/247

References

Delete: The entire Limiting references section.

Insert: The following new Informative references section.

Informative references

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

Devices whereby the material to be separated or the separated material is moved with cylindrical means	B03C 1/10
--	---------------------------

B03C 1/28

Definition statement

Replace: The existing Definition statement text with the following revised text:

Devices or methods for separating particles contained in a liquid.

Special rules of classification

Replace: The existing Special rules text and table with the following revised text:

The following indexing symbols are used:

- Magnetic separation for particles suspended in a liquid is classified with indexing symbol B03C 2201/18.
- Magnetic separation for use in medical applications is classified with indexing symbol B03C 2201/26.

DATE: FEBRUARY 1, 2023

PROJECT MP11910

B03C 1/32

References

Delete: The entire Limiting references section.

Insert: The following new Informative references section:

Informative references

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

Sink-float separation using heavy liquids or suspensions	B03B 5/30
--	---------------------------

B03C 3/00

Definition statement

Replace: The existing Definition statement text with the following revised text:

Methods or devices using an electrostatic effect for separating dispersed particles from gases or vapours, e.g. devices that use electrostatic effects for filtering air.

References

Delete: The entire Limiting references section.

Insert: The following new Application-oriented references section:

Application-oriented references

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

Exhaust or silencing apparatus for machines or engines having means for removing solid constituents of exhaust, using electric or electrostatic separators	F01N 3/01
--	---------------------------

DATE: FEBRUARY 1, 2023

PROJECT MP11910

Informative references

Replace: The text of the first row of the Informative references table so that the row reads as follows:

Domestic cleaning implements actuated by electrostatic attraction; Devices for cleaning same	A47L 13/40
--	------------

Special rules of classification

Replace: The Special rules text and table with the following revised text:

When the electrostatic effect is not used for separating, it should not be classified here.

The following indexing symbols are used:

- Electrostatic separation including cleaning of the device by burning trapped particles is classified with indexing symbol B03C 2201/12.
- Electrostatic separation for gas that is moved electro-kinetically is classified with indexing symbol B03C 2201/14.
- Electrostatic separation including measuring or calculating of parameters or efficiency is classified with indexing symbol B03C 2201/24.
- Electrostatic separation for use in medical applications is classified with indexing symbol B03C 2201/26.
- Electrostatic separation for use in or with vehicles is classified with indexing symbol B03C 2201/30.
- Electrostatic separation including checking the quality of the result or the well-functioning of the device is classified with indexing symbol B03C 2201/32.

Glossary of terms

Replace: The existing Glossary of terms text with the following new table:

Separating	Dimensional modifications of particle-liquid distributions, e.g. particle immobilisation, caging, translational or rotational motion
------------	--

DATE: FEBRUARY 1, 2023

PROJECT MP11910

B03C 3/011

References

Delete: The entire Limiting references section.

Insert: The following new Informative references section:

Informative references

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

Combinations of electrostatic separators, e.g. in parallel or in series, stacked separators, dry-wet separator combinations	B03C 3/025
Mechanical filtering combined with the ESP filter	B03C 3/155
Controlling flow of gases or vapour in the ESP filter	B03C 3/36

B03C 3/014

References

Delete: The entire Limiting references section.

Informative references

Insert: The following two new rows into the Informative references table:

Wet-type ESP	B03C 3/16
Cleaning the electrodes by washing	B03C 3/74

B03C 3/019

References

Delete: The entire Limiting references section.

DATE: FEBRUARY 1, 2023

PROJECT MP11910

Informative references

Insert: The following new row into the Informative references table:

Mechanical filtering combined with the ESP filter	B03C 3/155
---	----------------------------

B03C 3/02

References

Delete: The entire Limiting references section.

Insert: The following new Informative references section:

Informative references

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

Electrode constructions	B03C 3/40
-------------------------	---------------------------

B03C 3/06

Definition statement

Replace: The existing Definition statement text with the following revised text:

Devices wherein a bundle of tube electrodes is used.

References

Delete: The entire Limiting references section.

Insert: The following new Informative references section:

DATE: FEBRUARY 1, 2023

PROJECT MP11910

Informative references

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

Electrode constructions	B03C 3/40
Constructional details of tubular collecting electrodes	B03C 3/49

B03C 3/155

References

Delete: The entire Limiting references section.

Informative references

Insert: The following two new rows into the Informative references table:

Mechanical filtering before the actual ESP filter	B03C 3/011
Mechanical filtering after the actual ESP filter	B03C 3/019

B03C 3/16

Definition statement

Replace: The existing Definition statement text with the following revised text:
Devices where the added liquid (e.g. water) is not completely absorbed by the treated gas.

References

Delete: The entire Limiting references section.

DATE: FEBRUARY 1, 2023

PROJECT MP11910

Informative referencesReplace: The existing Informative references table with the following revised table:

Adding water for the purpose of changing the characteristics of the gas mixture to be treated	B03C 3/014
Liquid, or liquid-film, electrodes	B03C 3/53
Cleaning the electrodes, e.g. by washing	B03C 3/74

B03C 3/32**References**Delete: The entire Limiting references section.Insert: The following new Application-oriented references section:**Application-oriented references***Examples of places where the subject matter of this place is covered when specially adapted, used for a particular purpose, or incorporated in a larger system:*

Room air-conditioners having an electrostatic separating stage	F24F
--	------

B03C 3/36**References**Delete: The entire Limiting references section.Insert: The following new Informative references section:**Informative references***Attention is drawn to the following places, which may be of interest for search:*

Flow control before the ESP filter	B03C 3/011
Flow control after the ESP filter	B03C 3/019

DATE: FEBRUARY 1, 2023

PROJECT MP11910

Combinations of electrostatic separators, e.g. in parallel or in series, stacked separators, dry-wet separator combinations	B03C 3/025
Mechanical dry-type filtering, e.g. combined with the ESP filter	B03C 3/155

B03C 3/38

Definition statement

Replace: The existing Definition statement text with the following revised text:

Particle charging or ionising stations in which particles are electrostatically charged for the purpose of separating them, e.g. using electric discharge, radioactive radiation or flames.

B03C 3/40

References

Delete: The entire Limiting references section.

Insert: The following new Informative references section:

Informative references

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

Electrode-carrying means	B03C 3/86
--------------------------	---------------------------

DATE: FEBRUARY 1, 2023

PROJECT MP11910

B03C 3/41

Special rules of classification

Replace: The existing Special rules text and table with the following revised text:
Indexing Symbols [B03C 2201/04](#) – [B03C 2201/10](#) have to be given in order to describe the type of electrode.

The following indexing symbols are used:

- Ionising electrode wires are classified with indexing symbol B03C 2201/04.
- Ionising electrode needles are classified with indexing symbol B03C 2201/06.
- Ionising electrode rods are classified with indexing symbol B03C 2201/08.
- Ionising electrodes including multiple serrated ends or parts are classified with indexing symbol B03C 2201/10.

B03C 3/53

References

Delete: The entire Limiting references section.

Informative references

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

Wet-type ESP	B03C 3/16
Cleaning the electrodes, e.g. by washing	B03C 3/74

B03C 3/68

References

Limiting references

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

DATE: FEBRUARY 1, 2023

PROJECT MP11910

Electricity supply or control systems for cleaning the electrodes	B03C 3/746 , B03C 3/763
---	--

Informative references

Insert: The following new row into the Informative references table:

Emergency control systems	B03C3/72
---------------------------	--------------------------

B03C 3/70**References****Limiting references**

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

Liquid, or liquid-film, electrodes	B03C 3/53
------------------------------------	---------------------------

Insert: The following new Informative references section:

Informative references

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

Use of special materials other than liquids for collecting electrodes	B03C 3/60
Protective coatings of housings	B03C 3/84
Electrode-carrying means	B03C 3/86

B03C 3/74**Special rules of classification**

Replace: The existing text and table with the following revised text:

DATE: FEBRUARY 1, 2023

PROJECT MP11910

This subclass does not only cover the cleaning of the electrodes, but also covers all details about cleaning the interior of the ESP.

The following indexing symbols are used:

- Cleaning the device by burning of trapped particles is classified with indexing symbol B03C 2201/12.
- Parts being easily removable for cleaning purposes is classified with indexing symbol B03C 2201/28.
- Measuring or calculating parameters or efficiency are classified with indexing symbol B03C 2201/24.
- Checking the quality of the result or the well-functioning of the device is classified with indexing symbol B03C 2201/32.

B03C 3/78

Definition statement

Replace: The existing Definition statement text with the following revised text:

Devices using a liquid where the purpose of the liquid is to clean.

References

Delete: The entire Limiting references section.

Informative references

Insert: The following new row into the existing Informative references table:

Wet-type ESP	B03C 3/16
--------------	---------------------------

B03C 3/82

References

Delete: The entire Limiting references section.

Insert: The following new Informative references section:

DATE: FEBRUARY 1, 2023

PROJECT MP11910

Informative references

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

Electrode-carrying means	B03C 3/86
--------------------------	---------------------------

B03C 3/84

Definition statement

Replace: The existing Definition statement text with the following revised text:

Coatings or special layers of the housing, not of the electrodes.

References

Delete: The entire Limiting references section.

Insert: The following new Informative references section:

Informative references

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

Electrode constructions	B03C 3/40
-------------------------	---------------------------

B03C 3/86

Definition statement

Replace: The existing Definition statement text with the following revised text:

Details about the (mechanical) fixation of the electrodes (including the electrical isolators).

References

Limiting references

DATE: FEBRUARY 1, 2023

PROJECT MP11910

Replace: The Limiting references table with the following revised table:

Electrode constructions	B03C 3/40
-------------------------	---------------------------

Insert: The following new Informative references section:

Informative references

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

Use of special materials other than liquids for collecting electrodes	B03C 3/60
Protective coatings of housings	B03C 3/84

B03C 5/00

References

Limiting references

Delete: The following row from the Limiting references table:

Separation, other than separation of solids, not fully covered by a single other group or subclass, (e.g. B03C) by electrophoresis	B01D 57/02
---	----------------------------

Informative references

Insert: The following two new rows into the Informative references table:

Separation, other than separation of solids, not fully covered by a single other group or subclass, (e.g. B03C) by electrophoresis	B01D 57/02
Analysis of biomaterial by electrical means	G01N 33/48707

Special rules of classification

Replace: The existing Special rules table and text with the following revised text:

DATE: FEBRUARY 1, 2023

PROJECT MP11910

The following indexing symbols are used:

- Electrostatic separation including measuring or calculating parameters or efficiency, is classified with indexing symbol B03C 2201/24.
- Electrostatic separation for use in medical applications, is classified with indexing symbol B03C 2201/26.
- Electrostatic separation including checking of the quality of the result or the well-functioning of the device, is classified with indexing symbol B03C 2201/32.

B03C 5/02

References

Delete: The entire Limiting references section.

Insert: The following new Informative references section:

Informative references

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

Dielectrophoresis, i.e. dielectric particles migrating towards the region of highest field strength for separating dispersed particles from liquids by electrostatic effect	B03C 5/005
---	-------------------

B03C 9/00

Definition statement

Replace: The existing Definition statement text with the following revised text:

Electrostatic separation not provided for in any single one of the other main groups of this subclass, e.g. other types of electrostatic separation, except for electrostatically separating liquids from liquids by high-voltage electrical fields.

DATE: FEBRUARY 1, 2023

PROJECT MP11910

References

Insert: The following new References out of a residual place section:

References out of a residual place

Examples of places in relation to which this place is residual:

Magnetic separation	B03C 1/00
Separating dispersed particles from gases or vapour	B03C 3/00
Separating dispersed particles from liquids by electrostatic effect	B03C 5/00
Separating solids from solids by electrostatic effect	B03C 7/00

Informative references

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

Electro-statically separating liquids from liquids by high-voltage electrical fields, not provided for in other groups of this subclass	B03C 11/00
---	------------

B03C 11/00**Definition statement**

Replace: The existing Definition statement text with the following revised text.

This group is used for electrostatically separating liquids from liquids by high-voltage electrical fields, not provided for in other groups of this subclass.

Special rules of classification

Replace: The existing Special rules table and text with the following revised text:

The following indexing symbol is used:

- Electrostatically separating liquids from liquids, is classified with indexing symbol B03C 2201/02.