

| Symbol           | Typ                 | Titel                                                                                                                                                                                                                                                                                                                                                                                                                                   |
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| <b>B</b>         | <b>Sektion</b>      | <b>SECTION B — PERFORMING OPERATIONS; TRANSPORTING</b>                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>B03</b>       | <b>Klasse</b>       | <b>SEPARATION OF SOLID MATERIALS USING LIQUIDS OR USING PNEUMATIC TABLES OR JIGS; MAGNETIC OR ELECTROSTATIC SEPARATION OF SOLID MATERIALS FROM SOLID MATERIALS OR FLUIDS; SEPARATION BY HIGH-VOLTAGE ELECTRIC FIELDS (separating isotopes B01D 59/00; crushing or disintegrating B02C; centrifuges or vortex apparatus for carrying out physical processes B04) [5]</b>                                                                 |
| <b>B03C</b>      | <b>Unterklasse</b>  | <b>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 <u>per se</u> H01F) [5]</b> |
| <b>B03C 1/00</b> | <b>Hauptgruppe</b>  | <b>Magnetic separation</b>                                                                                                                                                                                                                                                                                                                                                                                                              |
| B03C 1/005       | 1-Punkt Untergruppe | . Pretreatment specially adapted for magnetic separation [6]                                                                                                                                                                                                                                                                                                                                                                            |
| B03C 1/01        | 2-Punkt Untergruppe | . . by addition of magnetic adjuvants [6]                                                                                                                                                                                                                                                                                                                                                                                               |
| B03C 1/015       | 2-Punkt Untergruppe | . . by chemical treatment imparting magnetic properties to the material to be separated, e.g. roasting, reduction, oxidation [6]                                                                                                                                                                                                                                                                                                        |
| B03C 1/02        | 1-Punkt Untergruppe | . acting directly on the substance being separated [5]                                                                                                                                                                                                                                                                                                                                                                                  |
| B03C 1/021       | 2-Punkt Untergruppe | . . Separation using Meissner effect, i.e. deflection of superconductive particles in a magnetic field [6]                                                                                                                                                                                                                                                                                                                              |
| B03C 1/023       | 2-Punkt Untergruppe | . . Separation using Lorentz force, i.e. deflection of electrically charged particles in a magnetic field [6]                                                                                                                                                                                                                                                                                                                           |
| B03C 1/025       | 2-Punkt Untergruppe | . . High gradient magnetic separators [5]                                                                                                                                                                                                                                                                                                                                                                                               |
| B03C 1/027       | 3-Punkt Untergruppe | . . . with reciprocating canisters [6]                                                                                                                                                                                                                                                                                                                                                                                                  |
| B03C 1/029       | 3-Punkt Untergruppe | . . . with circulating matrix or matrix elements (matrix elements B03C 1/034) [6]                                                                                                                                                                                                                                                                                                                                                       |
| B03C 1/03        | 4-Punkt Untergruppe | . . . . rotating, e.g. of the carousel type [5, 6]                                                                                                                                                                                                                                                                                                                                                                                      |
| B03C 1/031       | 3-Punkt Untergruppe | . . . Component parts; Auxiliary operations [6]                                                                                                                                                                                                                                                                                                                                                                                         |
| B03C 1/032       | 4-Punkt Untergruppe | . . . . Matrix cleaning systems [6]                                                                                                                                                                                                                                                                                                                                                                                                     |
| B03C 1/033       | 4-Punkt Untergruppe | . . . . characterised by the magnetic circuit [6]                                                                                                                                                                                                                                                                                                                                                                                       |
| B03C 1/034       | 5-Punkt Untergruppe | . . . . . characterised by the matrix elements [6]                                                                                                                                                                                                                                                                                                                                                                                      |
| B03C 1/035       | 2-Punkt Untergruppe | . . Open gradient magnetic separators, i.e. separators in which the gap is unobstructed, characterised by the configuration of the gap [5]                                                                                                                                                                                                                                                                                              |
| B03C 1/0355      | 3-Punkt Untergruppe | . . . using superconductive coils [6]                                                                                                                                                                                                                                                                                                                                                                                                   |
| B03C 1/04        | 2-Punkt Untergruppe | . . with the material carriers in the form of trays or with tables                                                                                                                                                                                                                                                                                                                                                                      |
| B03C 1/06        | 3-Punkt Untergruppe | . . . with magnets moving during operation                                                                                                                                                                                                                                                                                                                                                                                              |
| B03C 1/08        | 3-Punkt Untergruppe | . . . with non-movable magnets                                                                                                                                                                                                                                                                                                                                                                                                          |
| B03C 1/10        | 2-Punkt Untergruppe | . . with cylindrical material carriers (B03C 1/247 takes precedence) [6]                                                                                                                                                                                                                                                                                                                                                                |
| B03C 1/12        | 3-Punkt Untergruppe | . . . with magnets moving during operation; with movable pole pieces                                                                                                                                                                                                                                                                                                                                                                    |

| Symbol           | Typ                 | Titel                                                                                                                                                                                                                                                                |
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| B03C 1/14        | 3-Punkt Untergruppe | . . . with non-movable magnets                                                                                                                                                                                                                                       |
| B03C 1/16        | 2-Punkt Untergruppe | . . with material carriers in the form of belts                                                                                                                                                                                                                      |
| B03C 1/18        | 3-Punkt Untergruppe | . . . with magnets moving during operation                                                                                                                                                                                                                           |
| B03C 1/20        | 4-Punkt Untergruppe | . . . . in the form of belts, e.g. cross-belt type                                                                                                                                                                                                                   |
| B03C 1/22        | 3-Punkt Untergruppe | . . . with non-movable magnets                                                                                                                                                                                                                                       |
| B03C 1/23        | 2-Punkt Untergruppe | . . with material carried by oscillating fields; with material carried by travelling fields, e.g. generated by stationary magnetic coils; Eddy-current separators, e.g. sliding ramp [5]                                                                             |
| B03C 1/24        | 3-Punkt Untergruppe | . . . with material carried by travelling fields [5]                                                                                                                                                                                                                 |
| B03C 1/247       | 4-Punkt Untergruppe | . . . . obtained by a rotating magnetic drum [6]                                                                                                                                                                                                                     |
| B03C 1/253       | 4-Punkt Untergruppe | . . . . obtained by a linear motor [6]                                                                                                                                                                                                                               |
| B03C 1/26        | 2-Punkt Untergruppe | . . with free falling material (B03C 1/035 takes precedence) [5]                                                                                                                                                                                                     |
| B03C 1/28        | 2-Punkt Untergruppe | . . Magnetic plugs and dipsticks                                                                                                                                                                                                                                     |
| B03C 1/30        | 2-Punkt Untergruppe | . . Combinations with other devices, not otherwise provided for                                                                                                                                                                                                      |
| B03C 1/32        | 1-Punkt Untergruppe | . acting on the medium containing the substance being separated, e.g. magneto-gravimetric-, magnetohydrostatic-, or magnetohydrodynamic separation [5]                                                                                                               |
| <b>B03C 3/00</b> | <b>Hauptgruppe</b>  | <b>Separating dispersed particles from gases or vapour, e.g. air, by electrostatic effect (exhaust or silencing apparatus for machines or engines having means for removing solid constituents of exhaust, using electric or electrostatic separators F01N 3/01)</b> |
| B03C 3/01        | 1-Punkt Untergruppe | . Pretreatment of the gases prior to electrostatic precipitation                                                                                                                                                                                                     |
| B03C 3/011       | 2-Punkt Untergruppe | . . Prefiltering; Flow controlling [6]                                                                                                                                                                                                                               |
| B03C 3/013       | 2-Punkt Untergruppe | . . Conditioning by chemical additives, e.g. with SO <sub>3</sub> [6]                                                                                                                                                                                                |
| B03C 3/014       | 2-Punkt Untergruppe | . . Addition of water; Heat exchange, e.g. by condensation [6]                                                                                                                                                                                                       |
| B03C 3/016       | 2-Punkt Untergruppe | . . by acoustic or electromagnetic energy, e.g. ultra-violet light [6]                                                                                                                                                                                               |
| B03C 3/017       | 1-Punkt Untergruppe | . Combinations of electrostatic separation with other processes, not otherwise provided for [6]                                                                                                                                                                      |
| B03C 3/019       | 1-Punkt Untergruppe | . Post-treatment of gases [6]                                                                                                                                                                                                                                        |
| B03C 3/02        | 1-Punkt Untergruppe | . Plant or installations having external electricity supply (electrode constructions B03C 3/40)                                                                                                                                                                      |
| B03C 3/04        | 2-Punkt Untergruppe | . . dry type                                                                                                                                                                                                                                                         |
| B03C 3/06        | 3-Punkt Untergruppe | . . . characterised by presence of stationary tube electrodes                                                                                                                                                                                                        |
| B03C 3/08        | 3-Punkt Untergruppe | . . . characterised by presence of stationary flat electrodes arranged with their flat surfaces parallel to the gas stream                                                                                                                                           |
| B03C 3/09        | 3-Punkt Untergruppe | . . . characterised by presence of stationary flat electrodes arranged with their flat surfaces at right angles to the gas stream                                                                                                                                    |
| B03C 3/10        | 3-Punkt Untergruppe | . . . characterised by presence of electrodes moving during separating action                                                                                                                                                                                        |
| B03C 3/12        | 3-Punkt Untergruppe | . . . characterised by separation of ionising and collecting stations                                                                                                                                                                                                |
| B03C 3/14        | 3-Punkt Untergruppe | . . . characterised by the additional use of mechanical effects, e.g. gravity (B03C 3/32 takes precedence)                                                                                                                                                           |

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| B03C 3/145 | 4-Punkt Untergruppe | . . . . Inertia [6]                                                                                                                                               |
| B03C 3/15  | 4-Punkt Untergruppe | . . . . Centrifugal forces [6]                                                                                                                                    |
| B03C 3/155 | 4-Punkt Untergruppe | . . . . Filtration [6]                                                                                                                                            |
| B03C 3/16  | 2-Punkt Untergruppe | . . wet type                                                                                                                                                      |
| B03C 3/28  | 1-Punkt Untergruppe | . Plant or installations without electricity supply, e.g. using electrets                                                                                         |
| B03C 3/30  | 2-Punkt Untergruppe | . . in which electrostatic charge is generated by passage of the gases, i.e. tribo-electricity                                                                    |
| B03C 3/32  | 1-Punkt Untergruppe | . Transportable units, e.g. for cleaning room air (room air-conditioners having an electrostatic separating stage F24F)                                           |
| B03C 3/34  | 1-Punkt Untergruppe | . Constructional details or accessories or operation thereof                                                                                                      |
| B03C 3/36  | 2-Punkt Untergruppe | . . Controlling flow of gases or vapour                                                                                                                           |
| B03C 3/38  | 2-Punkt Untergruppe | . . Particle charging or ionising stations, e.g. using electric discharge, radioactive radiation, flames (electrode constructions B03C 3/40; ionising gases H05H) |
| B03C 3/40  | 2-Punkt Untergruppe | . . Electrode constructions                                                                                                                                       |
| B03C 3/41  | 3-Punkt Untergruppe | . . . Ionising-electrodes                                                                                                                                         |
| B03C 3/43  | 4-Punkt Untergruppe | . . . . radioactive                                                                                                                                               |
| B03C 3/45  | 3-Punkt Untergruppe | . . . Collecting-electrodes                                                                                                                                       |
| B03C 3/47  | 4-Punkt Untergruppe | . . . . flat, e.g. plates, discs, gratings                                                                                                                        |
| B03C 3/49  | 4-Punkt Untergruppe | . . . . tubular                                                                                                                                                   |
| B03C 3/51  | 4-Punkt Untergruppe | . . . . Catch-space electrodes, e.g. slotted-box form                                                                                                             |
| B03C 3/53  | 4-Punkt Untergruppe | . . . . Liquid, or liquid-film, electrodes                                                                                                                        |
| B03C 3/60  | 3-Punkt Untergruppe | . . . Use of special materials other than liquids                                                                                                                 |
| B03C 3/62  | 4-Punkt Untergruppe | . . . . ceramics                                                                                                                                                  |
| B03C 3/64  | 4-Punkt Untergruppe | . . . . synthetic resins                                                                                                                                          |
| B03C 3/66  | 2-Punkt Untergruppe | . . Applications of electricity supply techniques                                                                                                                 |
| B03C 3/68  | 3-Punkt Untergruppe | . . . Control systems therefor                                                                                                                                    |
| B03C 3/70  | 3-Punkt Untergruppe | . . . insulating in electric separators (B03C 3/53 takes precedence)                                                                                              |
| B03C 3/72  | 2-Punkt Untergruppe | . . Emergency control systems                                                                                                                                     |
| B03C 3/74  | 2-Punkt Untergruppe | . . Cleaning the electrodes                                                                                                                                       |
| B03C 3/76  | 3-Punkt Untergruppe | . . . by using a mechanical vibrator, e.g. rapping gear                                                                                                           |
| B03C 3/78  | 3-Punkt Untergruppe | . . . by washing                                                                                                                                                  |
| B03C 3/80  | 3-Punkt Untergruppe | . . . by gas or solid particle blasting                                                                                                                           |
| B03C 3/82  | 2-Punkt Untergruppe | . . Housings                                                                                                                                                      |
| B03C 3/84  | 3-Punkt Untergruppe | . . . Protective coatings                                                                                                                                         |

| Symbol            | Typ                 | Titel                                                                                                                   |
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| B03C 3/86         | 2-Punkt Untergruppe | . . Electrode-carrying means (B03C 3/40 takes precedence)                                                               |
| B03C 3/88         | 2-Punkt Untergruppe | . . Cleaning-out collected particles                                                                                    |
| <b>B03C 5/00</b>  | <b>Hauptgruppe</b>  | <b>Separating dispersed particles from liquids by electrostatic effect (combined with centrifuges B04B 5/10) [2]</b>    |
| B03C 5/02         | 1-Punkt Untergruppe | . Separators                                                                                                            |
| <b>B03C 7/00</b>  | <b>Hauptgruppe</b>  | <b>Separating solids from solids by electrostatic effect</b>                                                            |
| B03C 7/02         | 1-Punkt Untergruppe | . Separators                                                                                                            |
| B03C 7/04         | 2-Punkt Untergruppe | . . with material carriers in the form of trays, troughs, or tables                                                     |
| B03C 7/06         | 2-Punkt Untergruppe | . . with cylindrical material carriers                                                                                  |
| B03C 7/08         | 2-Punkt Untergruppe | . . with material carriers in the form of belts                                                                         |
| B03C 7/10         | 2-Punkt Untergruppe | . . with material falling in cascades                                                                                   |
| B03C 7/12         | 2-Punkt Untergruppe | . . with material falling free                                                                                          |
| <b>B03C 9/00</b>  | <b>Hauptgruppe</b>  | <b>Electrostatic separation not provided for in any single one of the other main groups of this subclass</b>            |
| <b>B03C 11/00</b> | <b>Hauptgruppe</b>  | <b><i>Separation by high-voltage electrical fields, not provided for in other groups of this subclass [2006.01]</i></b> |