

Symbol	Typ	Titel
B	Sektion	PERFORMING OPERATIONS; TRANSPORTING
B03	Klasse	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]
B03C	Unterklasse	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) [5]
B03C 1/00	Hauptgruppe	Magnetic separation
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
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]
B03C 3/00	Hauptgruppe	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)
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 ₃ [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)

Symbol	Typ	Titel
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
B03C 3/86	2-Punkt Untergruppe	. . Electrode-carrying means (B03C 3/40 takes precedence)
B03C 3/88	2-Punkt Untergruppe	. . Cleaning-out collected particles
B03C 5/00	Hauptgruppe	Separating dispersed particles from liquids by electrostatic effect (combined with centrifuges B04B 5/10) [2]
B03C 5/02	1-Punkt Untergruppe	. Separators
B03C 7/00	Hauptgruppe	Separating solids from solids by electrostatic effect
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
B03C 9/00	Hauptgruppe	Electrostatic separation not provided for in a single preceding main group