

Symbol	Typ	Titel
B	Sektion	SECTION B — PERFORMING OPERATIONS; TRANSPORTING
B07	Klasse	SEPARATING SOLIDS FROM SOLIDS; SORTING (separation in general B01D; wet separating processes, sorting by processes using fluent material in the same way as liquid B03; using liquids B03B, B03D; sorting by magnetic or electrostatic separation of solid materials from solid materials or fluids, separation by high voltage electric fields B03C; centrifuges or vortex apparatus for carrying out physical processes B04; sorting peculiar to particular materials or articles and provided for in other classes, <u>see</u> the relevant classes)
B07B	Unterklasse	SEPARATING SOLIDS FROM SOLIDS BY SIEVING, SCREENING, OR SIFTING OR BY USING GAS CURRENTS; OTHER SEPARATING BY DRY METHODS APPLICABLE TO BULK MATERIAL, e.g. LOOSE ARTICLES FIT TO BE HANDLED LIKE BULK MATERIAL (combinations of dry separating apparatus with wet separating apparatus B03B; hand sorting, postal sorting, sorting by switching or other devices actuated in response to detection or measurement of some feature of articles or samples of material B07C)
B07B 1/00	Hauptgruppe	Sieving, screening, sifting, or sorting solid materials using networks, gratings, grids, or the like
B07B 1/02	1-Punkt Untergruppe	. Hand screens
B07B 1/04	1-Punkt Untergruppe	. Stationary flat screens
B07B 1/06	1-Punkt Untergruppe	. Cone or disc shaped screens
B07B 1/08	1-Punkt Untergruppe	. Screens rotating within their own plane
B07B 1/10	1-Punkt Untergruppe	. Screens in the form of endless moving bands
B07B 1/12	1-Punkt Untergruppe	. Apparatus having only parallel elements
B07B 1/14	2-Punkt Untergruppe	. . Roller screens
B07B 1/15	3-Punkt Untergruppe	. . . using corrugated, grooved or ribbed rollers [2]
B07B 1/16	2-Punkt Untergruppe	. . the elements being movable and in other than roller form
B07B 1/18	1-Punkt Untergruppe	. Drum screens
B07B 1/20	2-Punkt Untergruppe	. . Stationary drums with moving interior agitators
B07B 1/22	2-Punkt Untergruppe	. . Revolving drums
B07B 1/24	3-Punkt Untergruppe	. . . with fixed or moving interior agitators
B07B 1/26	3-Punkt Untergruppe	. . . with additional axial or radial movement of the drum
B07B 1/28	1-Punkt Untergruppe	. Moving screens not otherwise provided for, e.g. swinging, reciprocating, rocking, tilting, or wobbling screens
B07B 1/30	2-Punkt Untergruppe	. . jiggling or moving to-and-fro in or approximately in the direction of conveyance
B07B 1/32	2-Punkt Untergruppe	. . jiggling or moving to-and-fro within their own plane transverse to the direction of conveyance
B07B 1/34	2-Punkt Untergruppe	. . jiggling or moving to-and-fro perpendicularly or approximately perpendicularly to the plane of the screen
B07B 1/36	2-Punkt Untergruppe	. . jiggling or moving to-and-fro in more than one direction
B07B 1/38	2-Punkt Untergruppe	. . oscillating in a circular arc in their own plane; Plansifters
B07B 1/40	2-Punkt Untergruppe	. . Resonant vibration screens

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B07B 1/42	1-Punkt Untergruppe	. Drive mechanisms, regulating or controlling devices, or balancing devices, specially adapted for screens
B07B 1/44	2-Punkt Untergruppe	. . Balancing devices
B07B 1/46	1-Punkt Untergruppe	. Constructional details of screens in general; Cleaning or heating of screens
B07B 1/48	2-Punkt Untergruppe	. . Stretching devices for screens
B07B 1/49	3-Punkt Untergruppe	. . . stretching more than one screen or screen section by the same or different stretching means [2]
B07B 1/50	2-Punkt Untergruppe	. . Cleaning
B07B 1/52	3-Punkt Untergruppe	. . . with brushes or scrapers
B07B 1/54	3-Punkt Untergruppe	. . . with beating devices
B07B 1/55	3-Punkt Untergruppe	. . . with fluid jets [3]
B07B 1/56	2-Punkt Untergruppe	. . Heated screens
B07B 1/58	3-Punkt Untergruppe	. . . heated by heated fluid
B07B 1/60	3-Punkt Untergruppe	. . . heated by flame heating
B07B 1/62	3-Punkt Untergruppe	. . . heated by direct electric heating
		<u>Separating solids from solids using gas currents</u>
B07B 4/00	Hauptgruppe	Separating solids from solids by subjecting their mixture to gas currents (using tables or jigs B03B)
B07B 4/02	1-Punkt Untergruppe	. while the mixtures fall
B07B 4/04	2-Punkt Untergruppe	. . in cascades
B07B 4/06	2-Punkt Untergruppe	. . using revolving drums
B07B 4/08	1-Punkt Untergruppe	. while the mixtures are supported by sieves, screens, or like mechanical elements
B07B 7/00	Hauptgruppe	Selective separation of solid materials carried by, or dispersed in, gas currents (sieves or filters for separating dispersed particles from gases or vapours B01D)
B07B 7/01	1-Punkt Untergruppe	. using gravity
B07B 7/02	1-Punkt Untergruppe	. by reversal of direction of flow
B07B 7/04	1-Punkt Untergruppe	. by impingement against baffle separators
B07B 7/06	1-Punkt Untergruppe	. by impingement against sieves
B07B 7/08	1-Punkt Untergruppe	. using centrifugal force (centrifuges B04B; cyclones B04C)
B07B 7/083	2-Punkt Untergruppe	. . generated by rotating vanes, discs, drums, or brushes
B07B 7/086	2-Punkt Untergruppe	. . generated by the winding course of the gas stream
B07B 7/10	2-Punkt Untergruppe	. . having air recirculating within the apparatus
B07B 7/12	1-Punkt Untergruppe	. with pulsating air currents
B07B 9/00	Hauptgruppe	Combinations of apparatus for screening or sifting or for separating solids from solids using gas currents; General arrangement of plant, e.g. flow sheets
B07B 9/02	1-Punkt Untergruppe	. Combinations of similar or different apparatus for separating solids from solids using gas currents
B07B 11/00	Hauptgruppe	Arrangement of accessories in apparatus for separating solids from solids using gas currents

Symbol	Typ	Titel
B07B 11/02	1-Punkt Untergruppe	. Arrangement of air or material conditioning accessories
B07B 11/04	1-Punkt Untergruppe	. Control arrangements
B07B 11/06	1-Punkt Untergruppe	. Feeding or discharging arrangements
B07B 11/08	1-Punkt Untergruppe	. Cleaning arrangements
		<u>Other separating, e.g. grading, resulting automatically from the construction of the apparatus used and properties of the material concerned; Combinations</u>
B07B 13/00	Hauptgruppe	Grading or sorting solid materials by dry methods, not otherwise provided for; Sorting articles otherwise than by indirectly controlled devices (grading eggs A01K 43/04)
B07B 13/02	1-Punkt Untergruppe	. Apparatus for grading using pockets for taking out particles from aggregates
B07B 13/04	1-Punkt Untergruppe	. according to size
B07B 13/05	2-Punkt Untergruppe	. . using material mover cooperating with retainer, deflector or discharger (B07B 13/065-B07B 13/075 take precedence) [3]
B07B 13/065	2-Punkt Untergruppe	. . Apparatus for grading or sorting using divergent conveyer belts or cables [3]
B07B 13/07	2-Punkt Untergruppe	. . Apparatus in which aggregates or articles are moved along or past openings which increase in size in the direction of movement [3]
B07B 13/075	2-Punkt Untergruppe	. . Apparatus comprising moving article-receiving openings, the size of which varies as they move [3]
B07B 13/08	1-Punkt Untergruppe	. according to weight (B07B 13/10 takes precedence)
B07B 13/10	1-Punkt Untergruppe	. using momentum effects
B07B 13/11	2-Punkt Untergruppe	. . involving travel of particles over surfaces which separate by centrifugal force or by relative friction between particles and such surfaces, e.g. helical sorters [2]
B07B 13/14	1-Punkt Untergruppe	. Details or accessories
B07B 13/16	2-Punkt Untergruppe	. . Feed or discharge arrangements
B07B 13/18	2-Punkt Untergruppe	. . Control
B07B 15/00	Hauptgruppe	Combinations of apparatus for separating solids from solids by dry methods applicable to bulk material, e.g. loose articles fit to be handled like bulk material (using gas currents B07B 9/00; using wet methods B03B 7/00)