

ECLA EUROPEAN CLASSIFICATION

- B03B** **SEPARATING SOLID MATERIALS USING LIQUIDS OR USING PNEUMATIC TABLES OR JIGS (removing fluids from solids B01D; magnetic or electrostatic separation of solid materials from solid materials or fluids, separation by high voltage electric fields B03C; flotation differential sedimentation B03D; separating by dry methods B07; screening or sifting B07B; by picking B07C; separating peculiar to particular materials and provided for in other single classes, see the relevant classes) [C9602]**
- B03B1/00** **Conditioning for facilitating separation by altering physical properties of the matter to be treated (pre-treatment of ores in general C22B) [N: Pretreatment prior to magnetic separation B03C1/00]**
- B03B1/02 . Preparatory heating
- B03B1/04 . by additives
- B03B1/06 . by varying ambient atmospheric pressure
- B03B4/00** **Separating by pneumatic tables or by pneumatic jigs (sink-float separation using dry heavy media B03B5/46)**
- [N: **Note**
[C9602]Group [B03B4/00G](#) takes precedence over groups [B03B4/02](#) to [B03B4/06B](#)
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- B03B4/00G . [N: the currents being pulsating, e.g. pneumatic jigs; combination of continuous and pulsating currents]
- B03B4/02 . using swinging or shaking tables [N9602]
- B03B4/04 . using rotary tables or tables formed by travelling belts (separating solids from solids using gas currents and revolving drums [B07B4/06](#)) [N9602]
- B03B4/06 . using fixed and inclined tables; [N: using stationary pneumatic tables, e.g. fluidised beds] [N9602]
- B03B4/06B . . [N: having inclined portions] [N9602]
- B03B5/00** **Washing granular, powdered or lumpy materials; Wet separating (separating by pneumatic tables or by pneumatic jigs [B03B4/00](#))**
- B03B5/02 . using shaken, pulsated or stirred beds as the principal means of separation ([B03B5/28](#), [B03B5/48](#) take precedence)
- B03B5/04 . . on shaking tables (on vanners [B03B5/08](#))
- B03B5/06 . . . Constructional details of shaking tables, e.g. riffling
- B03B5/08 . . on vanners

- B03B5/10 . . . on jigs
- B03B5/12 using pulses generated mechanically in fluid
- B03B5/14 Plunger jigs
- B03B5/16 Diaphragm jigs
- B03B5/18 Moving-sieve jigs
- B03B5/20 using pulses generated by air injection
- B03B5/22 using pulses generated by liquid injection
- B03B5/24 Constructional details of jigs, e.g. pulse control devices
- B03B5/26 . . . in sluices

- B03B5/28 . . . by sink-float separation
- B03B5/30 using heavy liquids or suspensions
- B03B5/32 using centrifugal force ([centrifuges B04B](#); [cyclones B04C](#))
- B03B5/34 Applications of hydrocyclones
- B03B5/36 Devices therefor, other than using centrifugal force ([jigs B03B5/10](#))
- B03B5/38 of conical receptacle type
- B03B5/40 of trough type
- B03B5/42 of drum of lifting wheel type
- B03B5/44 Application of particular media therefor
- B03B5/44B [N: composition of heavy media]
- B03B5/44B2 [N: composition of dry heavy media]
- B03B5/44C [N: recovery of heavy media]
- B03B5/46 using dry heavy media; Devices therefor

- B03B5/48 . . . by mechanical classifiers ([sink-float separation aspects B03B5/28](#))
- B03B5/50 Rake classifiers
- B03B5/52 Spiral classifiers
- B03B5/54 Drag classifiers
- B03B5/56 Drum classifiers
- B03B5/58 Bowl classifiers

- B03B5/60 . . . by non-mechanical classifiers, e.g. slime tanks ([using shaken, pulsated or stirred beds as the principal means of separation B03B5/02](#); [hydraulic classifiers B03B5/62](#); [water impulse classifiers B03B5/68](#))

- B03B5/62 . . . by hydraulic classifiers, e.g. of launder, tank, spiral or helical chute concentrator type [C9602]
- B03B5/62B [N: Upward current classifiers]
- B03B5/62C [N: Helical separators]
- B03B5/64 of the free settling type
- B03B5/66 of the hindered settling type

- B03B5/68 . . . by water impulse ([shaking tables B03B5/04](#); [jigs B03B5/10](#); [hydraulic classifiers B03B5/62](#))
- B03B5/70 on tables or strakes

- B03B5/72 . . . which are movable
- B03B5/74 Revolving tables
- B03B7/00** **Combinations of wet processes or apparatus with other processes or apparatus, e.g. for dressing ores or garbage**
- B03B9/00** **General arrangement of separating plant, e.g. flow sheets**
- B03B9/00B . [N: specially adapted for coal]
- B03B9/02 . specially adapted for oil-sand, oil-chalk, oil-shales, ozokerite, bitumen, or the like
- B03B9/04 . specially adapted for furnace residues, smeltings, or foundry slags
- B03B9/06 . specially adapted for refuse
- B03B9/06D . . [N: the refuse being industrial]
- B03B9/06D1 . . . [N: the refuse being glass]
- B03B9/06D2 . . . [N: the refuse being concrete slurry]
- B03B9/06D3 . . . [N: the refuse being building rubble]
- B03B11/00** **Feed or discharge devices integral with washing or wet-separating equipment (filling or emptying devices per se [B65G65/30](#))**
- B03B13/00** **Control arrangements specially adapted for wet-separating apparatus or for dressing plant, using physical effects (detecting, measuring, or analysing devices [G01](#); control devices in general [G05](#))**
- B03B13/00B . [N: Methods or arrangements for controlling the physical properties of heavy media (in relation with groups [B03B5/30](#) to [B03B5/46](#)), e.g. density, concentration, viscosity]
- B03B13/02 . using optical effects [[C9602](#)]
- B03B13/04 . using electrical or electromagnetic effects
- B03B13/06 . using absorption or reflection of radioactive emanation [[C9602](#)]