

CPC COOPERATIVE PATENT CLASSIFICATION

B PERFORMING OPERATIONS; TRANSPORTING

(NOTES omitted)

SEPARATING; MIXING

B03 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

B03B SEPARATING SOLID MATERIALS USING LIQUIDS OR USING PNEUMATIC TABLES OR JIGS

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| 1/00 | Conditioning for facilitating separation by altering physical properties of the matter to be treated | 5/34 | Applications of hydrocyclones |
| 1/02 | . Preparatory heating | 5/36 | . . . Devices therefor, other than using centrifugal force |
| 1/04 | . by additives | 5/38 | of conical receptacle type |
| 1/06 | . by varying ambient atmospheric pressure | 5/40 | of trough type |
| 4/00 | Separating by pneumatic tables or by pneumatic jigs | 2005/405 | {using horizontal currents} |
| | NOTE | 5/42 | of drum or lifting wheel type |
| | Group B03B 4/005 takes precedence over groups B03B 4/02 - B03B 4/065 | 5/44 | . . . Application of particular media therefor |
| | | 5/442 | {composition of heavy media} |
| | | 5/445 | {composition of dry heavy media} |
| | | 5/447 | {recovery of heavy media} |
| 4/005 | . {the currents being pulsating, e.g. pneumatic jigs; combination of continuous and pulsating currents} | 5/46 | . . using dry heavy media; Devices therefor |
| 4/02 | . using swinging or shaking tables | 5/48 | . by mechanical classifiers |
| 4/04 | . using rotary tables or tables formed by travelling belts | 5/50 | . . Rake classifiers |
| 4/06 | . using fixed and inclined tables {; using stationary pneumatic tables, e.g. fluidised beds} | 5/52 | . . Spiral classifiers |
| 4/065 | . . {having inclined portions} | 5/54 | . . Drag classifiers |
| 5/00 | Washing granular, powdered or lumpy materials; Wet separating (separating by pneumatic tables or by pneumatic jigs B03B 4/00) | 5/56 | . . Drum classifiers |
| 5/02 | . using shaken, pulsated or stirred beds as the principal means of separation (B03B 5/28 , B03B 5/48 take precedence) | 5/58 | . . Bowl classifiers |
| 5/04 | . . on shaking tables (on vanners B03B 5/08) | 5/60 | . by non-mechanical classifiers, e.g. slime tanks (hydraulic classifiers B03B 5/62 ; water impulse classifiers B03B 5/68) |
| 5/06 | . . . Constructional details of shaking tables, e.g. riffing | 5/62 | . by hydraulic classifiers, e.g. of launder, tank, spiral or helical chute concentrator type |
| 5/08 | . . on vanners | 5/623 | . . {Upward current classifiers} |
| 5/10 | . . on jigs | 5/626 | . . {Helical separators} |
| 5/12 | . . . using pulses generated mechanically in fluid | 5/64 | . . of the free settling type |
| 5/14 | Plunger jigs | 5/66 | . . of the hindered settling type |
| 5/16 | Diaphragm jigs | 5/68 | . by water impulse (hydraulic classifiers B03B 5/62) |
| 5/18 | Moving-sieve jigs | 5/70 | . . on tables or strakes |
| 5/20 | . . . using pulses generated by air injection | 5/72 | . . . which are movable |
| 5/22 | . . . using pulses generated by liquid injection | 5/74 | Revolving tables |
| 5/24 | . . . Constructional details of jigs, e.g. pulse control devices | 7/00 | Combinations of wet processes or apparatus with other processes or apparatus, e.g. for dressing ores or garbage |
| 5/26 | . . in sluices | 9/00 | General arrangement of separating plant, e.g. flow sheets |
| 5/28 | . by sink-float separation | 9/005 | . {specially adapted for coal} |
| 5/30 | . . using heavy liquids or suspensions | 9/02 | . specially adapted for oil-sand, oil-chalk, oil-shales, ozokerite, bitumen, or the like |
| 5/32 | . . . using centrifugal force | 9/04 | . specially adapted for furnace residues, smeltings, or foundry slags |
| | | 9/06 | . specially adapted for refuse |

B03B

- 9/061 . . {the refuse being industrial}
- 9/062 . . . {the refuse being glass}
- 9/063 . . . {the refuse being concrete slurry}
- 9/065 . . . {the refuse being building rubble}
- 2009/066 . . {the refuse being batteries}
- 2009/067 . . {the refuse being carpets}
- 2009/068 . . {Specific treatment of shredder light fraction}
- 11/00 Feed or discharge devices integral with washing or wet-separating equipment**
- 2011/002 . {Rotary feeding devices}
- 2011/004 . {Lifting wheel dischargers}
- 2011/006 . {Scraper dischargers}
- 2011/008 . {Screw dischargers}
- 13/00 Control arrangements specially adapted for wet-separating apparatus or for dressing plant, using physical effects**
- 13/005 . {Methods or arrangements for controlling the physical properties of heavy media, e.g. density, concentration or viscosity}
- 13/02 . using optical effects
- 13/04 . using electrical or electromagnetic effects
- 13/06 . using absorption or reflection of radioactive emanation