

# 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

- |       |                                                                                                                                                        |          |                                                                                                                                                                            |
|-------|--------------------------------------------------------------------------------------------------------------------------------------------------------|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1/00  | <b>Conditioning for facilitating separation by altering physical properties of the matter to be treated</b>                                            | 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  | <b>Separating by pneumatic tables or by pneumatic jigs</b>                                                                                             | 2005/405 | . . . . . {using horizontal currents}                                                                                                                                      |
|       | <b>NOTE</b>                                                                                                                                            | 5/42     | . . . . of drum or lifting wheel type                                                                                                                                      |
|       | Group <a href="#">B03B 4/005</a> takes precedence over groups <a href="#">B03B 4/02</a> - <a href="#">B03B 4/065</a>                                   | 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  | <b>Washing granular, powdered or lumpy materials; Wet separating (separating by pneumatic tables or by pneumatic jigs <a href="#">B03B 4/00</a>)</b>   | 5/56     | . . Drum classifiers                                                                                                                                                       |
| 5/02  | . using shaken, pulsated or stirred beds as the principal means of separation ( <a href="#">B03B 5/28</a> , <a href="#">B03B 5/48</a> take precedence) | 5/58     | . . Bowl classifiers                                                                                                                                                       |
| 5/04  | . . on shaking tables (on vanners <a href="#">B03B 5/08</a> )                                                                                          | 5/60     | . by non-mechanical classifiers, e.g. slime tanks ( <a href="#">hydraulic classifiers <a href="#">B03B 5/62</a>; water impulse classifiers <a href="#">B03B 5/68</a></a> ) |
| 5/06  | . . . Constructional details of shaking tables, e.g. riffling                                                                                          | 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 ( <a href="#">hydraulic classifiers <a href="#">B03B 5/62</a></a> )                                                                                     |
| 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     | <b>Combinations of wet processes or apparatus with other processes or apparatus, e.g. for dressing ores or garbage</b>                                                     |
| 5/26  | . . in sluices                                                                                                                                         | 9/00     | <b>General arrangement of separating plant, e.g. flow sheets</b>                                                                                                           |
| 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