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

1/00 Conditioning for facilitating separation by altering physical properties of the matter to be treated
1/02 . . Preparatory heating
1/04 . . by additives
1/06 . . by varying ambient atmospheric pressure
4/00 Separating by pneumatic tables or by pneumatic jigs

**NOTE**

Group B03B 4/005 takes precedence over groups B03B 4/02 - B03B 4/065

4/005 . . . [the currents being pulsating, e.g. pneumatic jigs; combination of continuous and pulsating currents]
4/02 . . using swinging or shaking tables
4/04 . . using rotary tables or tables formed by travelling belts
4/06 . . using fixed and inclined tables {; using stationary pneumatic tables, e.g. fluidised beds}
4/065 . . . [having inclined portions]

5/00 Washing granular, powdered or lumpy materials;
Wet separating (separating by pneumatic tables or by pneumatic jigs B03B 4/00)

5/02 . . using shaken, pulsed or stirred beds as the principal means of separation (B03B 5/28, B03B 5/48 take precedence)
5/04 . . on shaking tables (on vanners B03B 5/08)
5/06 . . . Constructional details of shaking tables, e.g. riffling
5/08 . . . on vanners
5/10 . . . on jigs
5/12 . . . using pulses generated mechanically in fluid
5/14 . . . Plunger jigs
5/16 . . . Diaphragm jigs
5/18 . . . Moving-sieve jigs
5/20 . . . using pulses generated by air injection
5/22 . . . using pulses generated by liquid injection
5/24 . . . Constructional details of jigs, e.g. pulse control devices
5/26 . . . in sluices
5/28 . . . by sink-float separation
5/30 . . . using heavy liquids or suspensions
5/32 . . . using centrifugal force

5/34 . . . Applications of hydrocyclones
5/36 . . . Devices therefor, other than using centrifugal force
5/38 . . . of conical receptacle type
5/40 . . . of trough type
2005/405 . . . {using horizontal currents}
5/42 . . . of drum or lifting wheel type
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}
5/46 . . using dry heavy media; Devices therefor
5/48 . . by mechanical classifiers
5/50 . . . Rake classifiers
5/52 . . . Spiral classifiers
5/54 . . . Drag classifiers
5/56 . . . Drum classifiers
5/58 . . . Bowl classifiers
5/60 . . by non-mechanical classifiers, e.g. slime tanks (hydraulic classifiers B03B 5/62; water impulse classifiers B03B 5/68)
5/62 . . by hydraulic classifiers, e.g. of launder, tank, spiral or helical chute concentrator type
5/623 . . . [Upward current classifiers]
5/626 . . . [Helical separators]
5/64 . . . of the free settling type
5/66 . . . of the hindered settling type
5/68 . . by water impulse (hydraulic classifiers B03B 5/62)
5/70 . . on tables or strakes
5/72 . . . which are movable
5/74 . . . . Revolving tables

7/00 Combinations of wet processes or apparatus with other processes or apparatus, e.g. for dressing ores or garbage

9/00 General arrangement of separating plant, e.g. flow sheets

9/005 . . . {specially adapted for coal}
9/002 . . specially adapted for oil-sand, oil-chalk, oil-shales, ozokerite, bitumen, or the like
9/004 . . specially adapted for furnace residues, smeltings, or foundry slags
9/006 . . specially adapted for refuse
### Feed or discharge devices integral with washing or wet-separating equipment

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>2011/002</td>
<td>Rotary feeding devices</td>
</tr>
<tr>
<td>2011/004</td>
<td>Lifting wheel dischargers</td>
</tr>
<tr>
<td>2011/006</td>
<td>Scraper dischargers</td>
</tr>
<tr>
<td>2011/008</td>
<td>Screw dischargers</td>
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</tbody>
</table>

### Control arrangements specially adapted for wet-separating apparatus or for dressing plant, using physical effects

<table>
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<tbody>
<tr>
<td>13/005</td>
<td>Methods or arrangements for controlling the physical properties of heavy media, e.g. density, concentration or viscosity</td>
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<tr>
<td>13/02</td>
<td>using optical effects</td>
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<tr>
<td>13/04</td>
<td>using electrical or electromagnetic effects</td>
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<tr>
<td>13/06</td>
<td>using absorption or reflection of radioactive emanation</td>
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