**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** (separating isotopes B01D 59/00; crushing or disintegrating B02C; centrifuges or vortex apparatus for carrying out physical processes B04)

**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)

**WARNING**

In this subclass non-limiting references (in the sense of paragraph 39 of the Guide to the IPC) may still be displayed in the scheme.

<table>
<thead>
<tr>
<th>1/00</th>
<th>Conditioning for facilitating separation by altering physical properties of the matter to be treated (pretreatment of ores in general C22B ; pretreatment prior to magnetic separation B03C 1/00)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/02</td>
<td>Preparatory heating</td>
</tr>
<tr>
<td>1/04</td>
<td>by additives</td>
</tr>
<tr>
<td>1/06</td>
<td>by varying ambient atmospheric pressure</td>
</tr>
<tr>
<td>4/00</td>
<td>Separating by pneumatic tables or by pneumatic jigs (sink-float separation using dry heavy media B03B 5/46)</td>
</tr>
</tbody>
</table>

**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 (separating solids from solids using gas currents and revolving drums B07B 4/06) |
| 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 (centrifuges B04B; cyclones B04C)
5/34 . . . Applications of hydrocyclones
5/36 . . . Devices therefor, other than using centrifugal force (jigs B03B 5/10)
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 (sink-float separation aspects B03B 5/28)
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
(using shaken, pulsed or stirred beds as the
principal means of separation B03B 5/02; 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 (shaking tables B03B 5/04; jigs
B03B 5/10; 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]
9/02 . specially adapted for oil-sand, oil-chalk, oil-shales,
ozokerite, bitumen, or the like
9/04 . specially adapted for furnace residues, smelttings, or
foundry slags
9/06 . specially adapted for refuse
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 (filling or emptying
devices per se B65G 65/30)
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 (detecting, measuring, or analysing
devices G01; control devices in general G05)
13/005 . [Methods or arrangements for controlling the
physical properties of heavy media (in relation
with groups B03B 5/30 - B03B 5/46), e.g. density,
concentration, viscosity]
13/02 . using optical effects
13/04 . using electrical or electromagnetic effects
13/06 . using absorption or reflection of radioactive
emanation