

# 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

<b>1/00</b>	<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
<b>4/00</b>	<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
		5/56	. . Drum classifiers
		5/58	. . Bowl classifiers
<b>5/00</b>	<b>Washing granular, powdered or lumpy materials; Wet separating (separating by pneumatic tables or by pneumatic jigs <a href="#">B03B 4/00</a>)</b>	5/60	. by non-mechanical classifiers, e.g. slime tanks ( <a href="#">hydraulic classifiers <a href="#">B03B 5/62</a></a> ; <a href="#">water impulse classifiers <a href="#">B03B 5/68</a></a> )
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)	5/62	. by hydraulic classifiers, e.g. of launder, tank, spiral or helical chute concentrator type
5/04	. . on shaking tables ( <a href="#">on vanners <a href="#">B03B 5/08</a></a> )	5/623	. . {Upward current classifiers}
5/06	. . . Constructional details of shaking tables, e.g. riffling	5/626	. . {Helical separators}
5/08	. . on vanners	5/64	. . of the free settling type
5/10	. . on jigs	5/66	. . of the hindered settling type
5/12	. . . using pulses generated mechanically in fluid	5/68	. by water impulse ( <a href="#">hydraulic classifiers <a href="#">B03B 5/62</a></a> )
5/14	. . . . Plunger jigs	5/70	. . on tables or strakes
5/16	. . . . Diaphragm jigs	5/72	. . . which are movable
5/18	. . . . Moving-sieve jigs	5/74	. . . . Revolving tables
5/20	. . . using pulses generated by air injection	<b>7/00</b>	<b>Combinations of wet processes or apparatus with other processes or apparatus, e.g. for dressing ores or garbage</b>
5/22	. . . using pulses generated by liquid injection	<b>9/00</b>	<b>General arrangement of separating plant, e.g. flow sheets</b>
5/24	. . . Constructional details of jigs, e.g. pulse control devices	9/005	. {specially adapted for coal}
5/26	. . in sluices	9/02	. specially adapted for oil-sand, oil-chalk, oil-shales, ozokerite, bitumen, or the like
5/28	. by sink-float separation	9/04	. specially adapted for furnace residues, smeltings, or foundry slags
5/30	. . using heavy liquids or suspensions	9/06	. specially adapted for refuse
5/32	. . . using centrifugal force		

## 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