

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 (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.

1/00	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 })	5/12	. . . using pulses generated mechanically in fluid
		5/14	. . . . Plunger jigs
		5/16	. . . . Diaphragm jigs
		5/18	. . . . Moving-sieve jigs
1/02	. Preparatory heating	5/20	. . . using pulses generated by air injection
1/04	. by additives	5/22	. . . using pulses generated by liquid injection
1/06	. by varying ambient atmospheric pressure	5/24	. . . Constructional details of jigs, e.g. pulse control devices
4/00	Separating by pneumatic tables or by pneumatic jigs (sink-float separation using dry heavy media B03B 5/46)	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
4/005	. {the currents being pulsating, e.g. pneumatic jigs; combination of continuous and pulsating currents}	2005/405	. . . . . {using horizontal currents}
4/02	. using swinging or shaking tables	5/42	. . . . of drum or lifting wheel type
4/04	. using rotary tables or tables formed by travelling belts (separating solids from solids using gas currents and revolving drums B07B 4/06)	5/44	. . . Application of particular media therefor
4/06	. using fixed and inclined tables {; using stationary pneumatic tables, e.g. fluidised beds}	5/442	. . . . {composition of heavy media}
4/065	. . {having inclined portions}	5/445	. . . . . {composition of dry heavy media}
		5/447	. . . . . {recovery of heavy media}
5/00	Washing granular, powdered or lumpy materials; Wet separating (separating by pneumatic tables or by pneumatic jigs B03B 4/00)	5/46	. . using dry heavy media; Devices therefor
		5/48	. by mechanical classifiers (sink-float separation aspects B03B 5/28)
5/02	. using shaken, pulsated or stirred beds as the principal means of separation (B03B 5/28 , B03B 5/48 take precedence)	5/50	. . Rake classifiers
		5/52	. . Spiral classifiers
5/04	. . on shaking tables (on vanners B03B 5/08)	5/54	. . Drag classifiers
5/06	. . . Constructional details of shaking tables, e.g. riffing	5/56	. . Drum classifiers
		5/58	. . Bowl classifiers
5/08	. . on vanners		
5/10	. . on jigs		

- 5/60 . by non-mechanical classifiers, e.g. slime tanks
(using shaken, pulsated 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, smeltings, 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