

CPC COOPERATIVE PATENT CLASSIFICATION

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](#))

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 })	5/36	. . . Devices therefor, other than using centrifugal force (jigs B03B 5/10)
1/02	. Preparatory heating	5/38	. . . . of conical receptacle type
1/04	. by additives	5/40	. . . . of trough type
1/06	. by varying ambient atmospheric pressure	2005/405	. . . . {using horizontal currents}
4/00	Separating by pneumatic tables or by pneumatic jigs (sink-float separation using dry heavy media B03B 5/46)	5/42	. . . . of drum of lifting wheel type
NOTE		5/44	. . . Application of particular media therefor
	Group B03B 4/005 takes precedence over groups B03B 4/02 - B03B 4/065	5/442	. . . . {composition of heavy media}
4/005	. {the currents being pulsating, e.g. pneumatic jigs; combination of continuous and pulsating currents}	5/445	. . . . {composition of dry heavy media}
4/02	. using swinging or shaking tables	5/447	. . . . {recovery of heavy media}
4/04	. using rotary tables or tables formed by travelling belts (separating solids from solids using gas currents and revolving drums B07B 4/06)	5/46	. . using dry heavy media; Devices therefor
4/06	. using fixed and inclined tables; {using stationary pneumatic tables, e.g. fluidised beds}	5/48	. by mechanical classifiers (sink-float separation aspects B03B 5/28)
4/065	. . {having inclined portions}	5/50	. . Rake classifiers
5/00	Washing granular, powdered or lumpy materials; Wet separating (separating by pneumatic tables or by pneumatic jigs B03B 4/00)	5/52	. . Spiral classifiers
5/02	. using shaken, pulsated or stirred beds as the principal means of separation (B03B 5/28 , B03B 5/48 take precedence)	5/54	. . Drag classifiers
5/04	. . on shaking tables (on vanners B03B 5/08)	5/56	. . Drum classifiers
5/06	. . . Constructional details of shaking tables, e.g. riffing	5/58	. . Bowl classifiers
5/08	. . on vanners	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)
5/10	. . on jigs	5/62	. by hydraulic classifiers, e.g. of launder, tank, spiral or helical chute concentrator type
5/12	. . . using pulses generated mechanically in fluid	5/623	. . {Upward current classifiers}
5/14	. . . . Plunger jigs	5/626	. . {Helical separators}
5/16	. . . . Diaphragm jigs	5/64	. . of the free settling type
5/18	. . . . Moving-sieve jigs	5/66	. . of the hindered settling type
5/20	. . . using pulses generated by air injection	5/68	. by water impulse (shaking tables B03B 5/04 ; jigs B03B 5/10 ; hydraulic classifiers B03B 5/62)
5/22	. . . using pulses generated by liquid injection	5/70	. . on tables or strakes
5/24	. . . Constructional details of jigs, e.g. pulse control devices	5/72	. . . which are movable
5/26	. . in sluices	5/74	. . . . Revolving tables
5/28	. by sink-float separation	7/00	Combinations of wet processes or apparatus with other processes or apparatus, e.g. for dressing ores or garbage
5/30	. . using heavy liquids or suspensions	9/00	General arrangement of separating plant, e.g. flow sheets
5/32	. . . using centrifugal force (centrifuges B04B ; cyclones B04C)	9/005	. {specially adapted for coal}
5/34	. . . . Applications of hydrocyclones	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