

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) [5]

B03D FLOTATION; DIFFERENTIAL SEDIMENTATION (sedimentation in general B01D 21/00; in combination with other separation of solids B03B; sink-float separation B03B 5/28; detergents, soaps C11D)

1/00 Flotation (conditioning for flotation, general arrangement of plant B03B)
1/001 . Flotation agents (conditioners B03B 1/00) [5]

In this group in the absence of an indication to the contrary, classification is made in the last appropriate place. [5]

In this group, it is desirable to add the appropriate indexing code(s) from each of groups B03D 101/00 or B03D 103/00. [5]

1/002 . . Inorganic compounds [5]
1/004 . . Organic compounds [5]
1/006 . . . Hydrocarbons [5]
1/008 . . . containing oxygen [5]
1/01 . . . containing nitrogen [5]
1/012 . . . containing sulfur [5]
1/014 . . . containing phosphorus [5]
1/016 . . . Macromolecular compounds [5]
1/018 . . Mixtures of inorganic and organic compounds [5]
1/02 . Froth-flotation processes
1/04 . . by varying ambient atmospheric pressure
1/06 . . differential
1/08 . Subsequent treatment of concentrated product (froth dispersion B01D 19/02)
1/10 . . Removing adhering liquid from separated materials (processes or devices capable of general use B01D)

1/12 . Agent recovery
1/14 . Flotation machines (devices for feeding measured quantities of reagents B01J 4/02; flotation apparatus for enzymology or microbiology C12M 1/09)
1/16 . . with impellers; Subaeration machines
1/18 . . . without air supply
1/20 . . . with internal air pumps
1/22 . . . with external blowers
1/24 . . pneumatic
1/26 . . . Air lift machines

3/00 Differential sedimentation

3/02 . Coagulation
3/04 . . assisted by vibrations
3/06 . Flocculation

Indexing scheme associated with group B03D 1/001, relating to the effects produced and the materials treated. [5]

101/00 Specified effects produced by the flotation agents [5]

101/02 . Collectors [5]
101/04 . Frothers [5]
101/06 . Depressants [5]

103/00 Specified materials treated by the flotation agents [5]

103/02 . Ores [5]
103/04 . . Non-sulfide ores [5]
103/06 . . . Phosphate ores [5]
103/08 . . . Coal ores [5]
103/10 . . . Potassium ores [5]