

Title (en)
ARRANGEMENT FOR SEPARATING FLOATING SOLID PARTICLES AND/OR SOLID FIBERS FROM SOLID-LIQUID MIXTURES BY MEANS OF FLOTATION

Title (de)
ANORDNUNG ZUR ABTRENNUNG VON SCHWEBENDEN FESTSTOFF PARTIKELN UND/ODER FESTSTOFF-FASERN AUS FESTSTOFF-FLÜSSIGKEITS-GEMISCHEN DURCH FLOTATION

Title (fr)
AGENCEMENT POUR SÉPARER PAR FLOTTATION DES PARTICULES ET/OU DES FIBRES DE MATIÈRE SOLIDE FLOTTANTES PRÉSENTES DANS DES MÉLANGES MATIÈRE SOLIDE-LIQUIDE

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EP 11755240 A 20110521

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Abstract (en)
[origin: WO2011157253A2] The invention relates to an arrangement for separating floating solid particles and/or solid fibers from solid-liquid mixtures by means of flotation. The arrangement comprises a main process container (1), into which the solid-liquid mixture to be separated is introduced by means of a supply line (2), to which the air bubbles required to implement the flotation process are supplied. In order to produce said air bubbles, a diffuser (5) is present according to the invention, into the inlet of which a part of the liquid discharged from the main process container (1) is conducted and the nozzle arrangement of which has an air supply opening. The outlet of the diffuser is connected to the supply line (2) of the main process container (1) in such a way that the air bubbles, which are produced in the diffuser (5) from the intake of air into the part of the already treated liquid that is conducted through the diffuser (5), are introduced into the supply flow of the solid-liquid mixture to be treated.

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Citation (examination)
• WO 2008104022 A1 20080904 - NEWCASTLE INNOVATION LTD [AU], et al
• DE 2938264 A1 19801030 - GEESTHACHT GKSS FORSCHUNG
• US 2003173288 A1 20030918 - ARNAUD JOHNNY [US]
• See also references of WO 2011157253A2

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