

Title (en)

APPARATUS AND METHOD FOR RECOVERING PARTICLES FROM A SLURRY

Title (de)

VORRICHTUNG UND VERFAHREN ZUR RÜCKGEWINNUNG VON FESTSTOFFPARTIKELN AUS EINEM SCHLAMM

Title (fr)

APPAREIL ET PROCÉDÉ DE RÉCUPÉRATION DE PARTICULES EN PROVENANCE D'UNE BOUILLIE

Publication

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Application

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Priority

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Abstract (en)

[origin: WO2019178620A1] This invention relates to apparatuses and methods for recovering buoyant particles from a slurry. The apparatus (1) comprises a body (3), at least one operatively inclined corrugated plate (15) and a collector (25). The body (3) defines a slurry flow region (12) and has an inlet (9) and an outlet (13) at operatively upper and lower regions of the body respectively, with the flow region (12) extending between the inlet and the outlet. The corrugated plate (15) is contained within the body and includes at least one corrugation forming a peak (17) that extends within the flow region (12). The collector (25) is associated with the at least one peak (17) and positioned on an inlet side of the corrugated plate (15), with a mouth of the collector (25) positioned at an edge of the corrugated plate (15) to allow low density particles in a slurry within the slurry flow region to rise and be guided along the underside of the peak towards the mouth of the collector (25). In an inverted configuration, the apparatuses and related methods can be applied to the recovering from a slurry, of particles having a specific density greater than that of the slurry.

IPC 8 full level

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Citation (search report)

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- [I] SU 701950 A1 19791205 - MAKSIMOV YURIJ [SU]
- [A] US 2002074265 A1 20020620 - GOMEZ LUIS CASTRO [ES]
- See references of WO 2019178620A1

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