

Title (en)
POLYMER COATING FOR SELECTIVE SEPARATION OF HYDROPHOBIC PARTICLES IN AQUEOUS SLURRY

Title (de)
POLYMERBESCHICHTUNG ZUR SELEKTIVEN TRENNUNG VON HYDROPHOBEN TEILCHEN IN EINER WÄSSRIGEN SUSPENSION

Title (fr)
REVÊTEMENT POLYMÈRE POUR LA SÉPARATION SÉLECTIVE DE PARTICULES HYDROPHOBES DANS UNE SUSPENSION AQUEUSE

Publication
EP 3535038 A4 20200701 (EN)

Application
EP 17868028 A 20171102

Priority

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- US 2017059650 W 20171102

Abstract (en)
[origin: WO2018085490A1] A substrate for use in an aqueous slurry has a polymeric coating to provide a compliant and sticky surface. The polymer coating has a chemical to render the surface hydrophobic so as to attract hydrophobic or hydrophobized mineral particles in the slurry. The substrate can take the form of a conveyor belt, a bead, a mesh, an impeller, a filter or a flat surface. The substrate can also be an open-cell foam. The polymeric coating can be modified with tackifiers; plasticizers; crosslinking agents; chain transfer agents; chain extenders; adhesion promoters; aryl or alkyl copolymers; fluorinated copolymers and/or additives; hydrophobicizing agents such as hexamethyldisilazane; inorganic particles such as silica, hydrophobic silica, and/or fumed hydrophobic silica; MQ resin; and / or other additives to control and modify the properties of the polymer.

IPC 8 full level
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Citation (search report)

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- See also references of WO 2018085490A1

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