Title (en)

METHOD FOR ORE ENRICHMENT BY MEANS OF HYDROPHOBIC, SOLID SURFACES

Title (de)

VERFAHREN ZUR ERZANREICHERUNG MITTELS HYDROPHOBER, FESTER OBERFLÄCHEN

Title (fr)

PROCÉDÉ D'ENRICHISSEMENT DE MINERAIS AU MOYEN DE SURFACES HYDROPHOBES SOLIDES

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Application

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Abstract (en)

[origin: WO2009010422A1] The present invention relates to a method for separating at least one hydrophobic agent from a mixture comprising said at least one hydrophobic agent and at least one hydrophilic agent, comprising the steps of: A) Producing a slurry or dispersion of the mixture to be treated in at least one suitable dispersion agent, B) bringing the slurry or dispersion of step (A) into contact with at least one solid, hydrophobic surface for attaching the at least one hydrophobic agent to be separated to the surface thereof, C) removing the at least one solid, hydrophobic surface, whereon the at least one hydrophobic agent from step (B) is bonded, from the slurry or dispersion, in which the at least one hydrophilic agent is present, and D) separating the at least one hydrophobic agent from the solid, hydrophobic surface. According to the invention, the method is used for separating (hydrophobic) sulfidic minerals, particularly copper sulfides, from mixtures having hydrophilic metal oxides (gang minerals). The solid surface can be, for example, a conveyor belt having a hydrophobic, structured surface.

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