

Title (en)

METHOD AND DEVICE FOR SEPARATING MATERIALS AND GUIDING DEVICE THEREFOR

Title (de)

VERFAHREN UND VORRICHTUNG ZUM TRENNEN VON STOFFEN UND LEITEINRICHTUNG HIERFÜR

Title (fr)

PROCEDE ET DISPOSITIF POUR SEPARER DES MATIERES, ET DISPOSITIF DE GUIDAGE UTILISE A CET EFFET

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Application

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Abstract (en)

[origin: DE19729802A1] The invention provides for a method and device for separating solid mineral grain materials, such as sand, from organic materials, suspended materials, easily or hardly soluble materials contained in a liquid-solid mix, for instance a mix from waste water purification plants. According to said method, the liquid-solid mix is tangentially introduced into a vessel (1), at an inlet port (13). Said liquid-solid mix flows towards an outlet port (16), in said vessel (1), at a sufficiently low rate so that when flowing said heavy components from liquid-solid mix, that is essentially solid mineral grain materials, settle forming a sediment bed (22). Said components forming sediment bed are removed and optionally dehydrated. The method according to the invention is characterized in that said liquid-solid mix is forcibly conveyed, in order to flow in a spiral fashion, between the inlet port (13) and the outlet port (16), at least through a partial deep area.

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