Title (en)
SYSTEM FOR SINK-FLOAT SEPARATION OF SOLID PARTICLES

Title (de)
EINRICHTUNG ZUR SINK-SCHWIMMSCHEIDUNG VON FESTEN PARTIKELN

Title (fr)
SEPARATEUR DE PARTICULES SOLIDES A FLOTTATION GRAVIMETRIQUE

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Abstract (en)
[origin: WO9414541A1] The present invention relates to a system for separating solid particles in two fractions by means of a medium, the specific gravity of said medium situating in between the specific gravity of the particles of the first fraction and the specific gravity of the particles of the second fraction. The preferred system comprises: (a) a scrolled barrel (1) consisting of a central midsection in which the separation takes place; (b) a means (9) associated with said barrel (1) for driving it rotatively along its longitudinal center line; (c) means (5) for feeding or injecting into the barrel both the solid particles to be separated as well as the medium effecting this separation; (d) a means (6) for removing the sink fraction from said central mid-section; (e) a means (8) for removing the float fraction from the central mid-section, and (f) a means (28, 30) to prevent the float particles from crossing over into the sinks and thus reporting with the sink particles. The invention relates to a process for media separation.

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