

Title (en)  
THREE-PHASE SOLID BOWL SCREW CENTRIFUGE AND METHOD OF CONTROLLING THE SEPARATING PROCESS

Title (de)  
DREI-PHASEN-VOLLMANTEL-SCHNECKENZENTRIFUGE UND VERFAHREN ZUR REGELUNG DES TRENNPROZESSES

Title (fr)  
CENTRIFUGEUSE A VIS SANS FIN, A BOL PLEIN ET A TROIS PHASES, ET PROCEDE POUR REGULER LE PROCESSUS DE SEPARATION

Publication  
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Application  
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Abstract (en)  
[origin: WO2006133804A1] A three-phase solid bowl screw centrifuge has a rotatable drum (1) and a screw (2) arranged in the drum (1). In this case, at least one solid material discharge is arranged at one axial end of the drum (1) and at least two or more liquid outlets for liquid phases of different densities - a lighter liquid phase and a heavier liquid phase - are arranged at its other axial end. The one liquid outlet also has a skimmer disc and the other liquid outlet is formed as an overflow weir, the skimmer disc being preceded by two regulating discs (11, 12) of the same inside diameter, which extend radially from the outside inwards and between which there enters a siphon disc (13), which in the skimming chamber (10) extends from the inner circumference of the latter outwards. This has the effect of forming an annular chamber (14), which is assigned a means for changing the pressure in the annular chamber (14).

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