

Title (en)

Ejection of solid particles from a centrifugal separator

Title (de)

Ausstoß von Feststoffteilchen aus einem Fliehkraftabscheider

Title (fr)

Éjection de particules solides à partir d'un séparateur centrifuge

Publication

**EP 2799146 B1 20191106 (EN)**

Application

**EP 13166245 A 20130502**

Priority

EP 13166245 A 20130502

Abstract (en)

[origin: EP2799146A1] The present invention relates to a method for separating solid particles from a liquid mixture in a centrifugal separator. The separator comprises a rotor body which is rotatable around an axis of rotation (R). The rotor body has a separation chamber for separating solid particles from the liquid mixture and an inlet for the liquid mixture and a screw conveyor adapted to rotate in the rotor body around the axis of rotation (R) for transporting the separated solid particles in the separation chamber (16) towards and out of a sludge outlet. The method comprises the steps of a) operating the separator in a separation phase, in which solid particles are separated from the liquid mixture, and b) operating the separator in an ejection phase, in which separated solid particles are transported towards the sludge outlet and further ejected out of the sludge outlet. An ejection liquid is introduced in the separation chamber during said ejection phase. The present invention further relates to a centrifugal separator for performing the method.

IPC 8 full level

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CPC (source: EP KR)

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Citation (examination)

- US 5899844 A 19990504 - EBERLE SR LOUIS C [US]
- WO 2011053224 A1 20110505 - ALFA LAVAL CORP AB [SE], et al

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US2015045199A1; US10086384B2

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