

Title (en)

SOLID-WALL SCREW CENTRIFUGE HAVING A WEIR EDGE

Title (de)

VOLLMANTELSCHNECKENZENTRIFUGE MIT EINER WEHRKANTE

Title (fr)

CENTRIFUGEUSE À VIS À BOL PLEIN DOTÉE D'UN BORD FAISANT BARRAGE

Publication

EP 2950932 A1 20151209 (DE)

Application

EP 13801466 A 20131108

Priority

- DE 102013001436 A 20130129
- DE 2013100379 W 20131108

Abstract (en)

[origin: WO2014117760A1] A solid-wall screw centrifuge (10) having a centrifuge drum (12) which can in operation be rotated about a longitudinal axis in a direction of rotation, on the end face of which at least one outflow opening (16) for the outflow of clarified material from the centrifuge drum, a weir edge (42) bounding the outflow opening (16) radially on the outside and an energy recovery device (52) for the recovery of energy from the outflowing, clarified material located on the weir edge are provided is created. According to the invention, the weir edge (42) is, viewed from the longitudinal axis, arranged so as to be able to be swivelled relative to the direction of rotation (36) at least in sections, the respective weir edge extends not transversely to the longitudinal axis of the centrifuge but instead obliquely to this, in such a way that the stream of material flowing out behind the weir edge is firstly also moved in the direction of rotation.

IPC 8 full level

B04B 1/20 (2006.01)

CPC (source: EP US)

B04B 1/20 (2013.01 - EP US); **B04B 9/06** (2013.01 - US); **B04B 11/02** (2013.01 - US); **B04B 11/06** (2013.01 - US); **B04B 2001/2075** (2013.01 - EP US); **B04B 2001/2083** (2013.01 - EP US)

Citation (search report)

See references of WO 2014117760A1

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

DE 102013001436 A1 20140731; DK 2950932 T3 20200414; EP 2950932 A1 20151209; EP 2950932 B1 20200122; US 10105716 B2 20181023; US 2015360240 A1 20151217; WO 2014117760 A1 20140807

DOCDB simple family (application)

DE 102013001436 A 20130129; DE 2013100379 W 20131108; DK 13801466 T 20131108; EP 13801466 A 20131108; US 201314764188 A 20131108