

Title (en)
BATCH-OPERATED CENTRIFUGE

Title (de)
DISKONTINUIERLICH BETRIEBENE ZENTRIFUGE

Title (fr)
CENTRIFUGEUSE À FONCTIONNEMENT DISCONTINU

Publication
EP 3681640 A1 20200722 (DE)

Application
EP 18799430 A 20181004

Priority
• DE 102017009589 A 20171016
• DE 102018007790 A 20181002
• EP 2018000462 W 20181004

Abstract (en)
[origin: WO2019076474A1] The invention relates to a batch-operated centrifuge, in particular a sugar or starch centrifuge, which has a rotating, cylindrical centrifuge drum (3) provided with openings (9). An internal screen element (S) is situated inside the rotating, cylindrical centrifuge drum (3). The internal element (S) is in the form of a slotted screen and comprises a resistance-welded screen (12) consisting of screen profile wires and screen support wires (10, 11), and a resistance-welded support (15), consisting of axial and radial support wires (13, 14). The screen element (S), in the form of a composite unit consisting of screen (12) and support (15), forms a prefabricated, single-part or integrally-formed screen element which can be inserted and introduced into the centrifuge drum (3) via the upper, open end thereof. At the ends (20) of the screen element (S) which meet in the circumferential direction, there are axially extending end strips (18, 19) which co-operate with a closure element in the form of an axially extending clamping strip (17) to lock and radially brace the screen element (S) against the centrifuge drum casing (8). To close the upper, open end of the centrifuge drum (3), there is an annular cover (23), which is screwed onto the upper limiting flange (5) to fix the screen element (S). The invention also relates to an intermittently operated centrifuge, in particular a sugar or starch centrifuge, in which the casing (8) provided with openings (9) is reinforced on the outside by a plurality of reinforcement rings (7, 7') surrounding the casing (8), wherein the reinforcement rings (7, 7') can be designed differently depending on and according to the load.

IPC 8 full level
B04B 7/18 (2006.01); **B04B 3/00** (2006.01); **B04B 7/16** (2006.01)

CPC (source: EP US)
B04B 3/00 (2013.01 - EP); **B04B 7/12** (2013.01 - US); **B04B 7/16** (2013.01 - EP); **B04B 7/18** (2013.01 - EP US)

Citation (search report)
See references of WO 2019076474A1

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 102018007790 A1 20190418; AU 2018353106 A1 20200206; AU 2018353106 B2 20230713; BR 112020007372 A2 20200929; EP 3681640 A1 20200722; US 11007539 B2 20210518; US 2020179950 A1 20200611; WO 2019076474 A1 20190425

DOCDB simple family (application)
DE 102018007790 A 20181002; AU 2018353106 A 20181004; BR 112020007372 A 20181004; EP 18799430 A 20181004; EP 2018000462 W 20181004; US 201816634483 A 20181004