

Title (en)
SOLID BOWL SCREW CENTRIFUGE

Title (de)
VOLLMANTEL-SCHNECKENZENTRIFUGE

Title (fr)
CENTRIFUGEUSE À VIS À PAROI PLEINE

Publication
EP 3962658 A1 20220309 (DE)

Application
EP 20722289 A 20200424

Priority
• DE 102019110996 A 20190429
• EP 2020061505 W 20200424

Abstract (en)
[origin: WO202221668A1] The invention relates to a solid bowl screw centrifuge (1) comprising a housing (100) and a rotor (200) rotatably mounted in the housing (100), which centrifuge has at least the following: a. a rotatable drum (210) having an axis of rotation (D), said drum (210) having a cylindrical section (231) having a length L1 and a conical section (232) having a length L2, b. at least one first inlet (211) for feeding a suspension (SU) to be processed into the drum (210), c. at least one liquid outlet (217) arranged in the cylindrical section (231) of the drum (210) and at least one solids outlet (218) arranged in the conical section (232) of the drum, d. a screw (230) arranged in the drum and rotatable at a differential speed relative to the rotatable drum (210), the drum (210) and the screw (230) together forming the rotor (200), e. the solid bowl screw centrifuge having a second inlet (701) for supplying an additive (Z) to a solid phase (SP) within the drum (210).

IPC 8 full level
B04B 1/20 (2006.01); **B04B 11/02** (2006.01)

CPC (source: EP US)
B04B 1/20 (2013.01 - EP US); **B04B 11/02** (2013.01 - EP US); **B04B 2001/2041** (2013.01 - EP US)

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 102019110996 A1 20201029; BR 112021020072 A2 20211207; EP 3962658 A1 20220309; JP 2022531179 A 20220706;
US 2022234053 A1 20220728; WO 2020221668 A1 20201105

DOCDB simple family (application)
DE 102019110996 A 20190429; BR 112021020072 A 20200424; EP 2020061505 W 20200424; EP 20722289 A 20200424;
JP 2021564248 A 20200424; US 202017607124 A 20200424