

Title (en)  
SOLID BOWL SCREW-TYPE CENTRIFUGE

Title (de)  
VOLLMANTEL-SCHNECKENZENTRIFUGE

Title (fr)  
DÉCANTEUR CENTRIFUGE À BOL PLEIN

Publication  
**EP 2827996 A2 20150128 (DE)**

Application  
**EP 13717724 A 20130321**

Priority  
• DE 102012102478 A 20120322  
• EP 2013055956 W 20130321

Abstract (en)  
[origin: CA2868195A1] The solid bowl screw-type centrifuge is used to continually separate a composition of free-flowing substances with different densities. The solid bowl screw-type centrifuge has a rotor drum (12), rotatable about a horizontal axis (16), with a cylindrical drum section (18) and a conical drum section (20), and a conveying screw (22) mounted therein, rotating about the same axis (16), with a helical vane (26) attached to a hollow shaft (24) for transporting the heavy phase to discharge openings (28) in the conical drum section (20). On a front wall (40) closing the cylindrical drum section (18), at least one outflow opening (62) for the light phase is provided with a device for setting the fluid level. According to the invention, the device for setting the fluid level consists of a control element (42) with means for braking or accelerating the fluid particles of the light phase, said control element being rotatively driven at a speed different to the drum speed and releasing a flow through an annular clearance (60) to the inner wall (58) of the drum.

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

CPC (source: EP US)  
**B04B 1/20** (2013.01 - EP US); **B04B 2001/2083** (2013.01 - EP US)

Citation (search report)  
See references of WO 2013139920A2

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 102012102478 A1 20130926**; CA 2868195 A1 20130926; CN 104302405 A 20150121; EP 2827996 A2 20150128;  
JP 2015510840 A 20150413; US 2015018190 A1 20150115; WO 2013139920 A2 20130926; WO 2013139920 A3 20140619

DOCDB simple family (application)  
**DE 102012102478 A 20120322**; CA 2868195 A 20130321; CN 201380015556 A 20130321; EP 13717724 A 20130321;  
EP 2013055956 W 20130321; JP 2015500929 A 20130321; US 201314378623 A 20130321