

Title (en)

SOLID BOWL DECANter CENTRIFUGE WITH A SECONDARY CLARIFYING DEVICE

Publication

EP 0203442 A3 19880525 (DE)

Application

EP 86106453 A 19860513

Priority

DE 3518885 A 19850525

Abstract (en)

[origin: US4714456A] The solid bowl screw centrifuge consists of a housing (1) in which a drum (2) is rotatable. A rotatably mounted conveyor screw (3) is situated inside the drum (2). The drum (2) and screw (3) rotate at slightly differing speeds of rotation when in operation. The housing (1) is cylindrical in the region of the clarifying part (I) and conical in the region of the demisting part (II). The suspension inflow (5,6) opens into the hollow screw core (12) at a location between the clarifying part (I) and the demisting part (II). The liquid discharge consists of an overflow weir (16) or stripping pipe (9) on the clarifying part (I). The solids discharge (4) is situated at the end of the demisting part (II). The screw (3) is arranged within the clarifying part (I) on the cylindrical hollow screw core (12) whose peripheral surface is partly or completely equipped with an after-clarifying device through which fluid flows in a radial direction. The after-clarifying device consists either of a filtration device placed on the perforated screw core (12) or of a laminar separator (14). These fittings enable the degree of separation of the centrifuge to be improved, especially in the treatment of solids which sediment only slowly.

IPC 1-7

B04B 1/20

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)

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