Title (en)
   CENTRIFUGAL DEHYDRATOR

Title (de)
   FLIEHKRAFT-ENTFEUCHTER

Title (fr)
   DESHYDRATEUR CENTRIFUGE

Publication
   EP 1141643 B1 20030416 (DE)

Application
   EP 00901054 A 20000103

Priority
   • DE 19900042 A 19990104
   • EP 0000006 W 20000103

Abstract (en)
   [origin: DE19900042A1] The invention relates to a centrifugal dehydrator for separating and dehydrating granulates out of a suspension, in which
   a rotor which is vertically arranged in an outer housing for collecting liquid and which is equipped with delivery blades is coaxially enclosed by a
   hollow body comprised of sieve elements. The suspension comprised of granulates and of liquid is continuously fed to the lower area of the chamber
   situated between the hollow body and the rotor. The granulates are transported upward by the delivery blades, said blades rotating with the rotor,
   while being buffeted and dried between the delivery blades and the sieves. The dried granulates are yielded on the upper end of the rotor. The liquid
   separated out of the granulates passes through the basket and flows out of the drain duct of the outer housing. According to the inventive centrifugal
   dehydrator, the hollow body which encloses the rotor (1, 28) that is equipped with the delivery blades (8, 13, 12, 27) consists of sieve elements (15)
   only in the lower area or does not consist of any sieve elements, rather it is comprised of a non-perforated casing (21, 29) on whose inner wall the
   separated liquid flows downward in a spiral-like manner. An outer housing (17) is thus not required in the area of the non-perforated casing.

IPC 1-7
   F26B 5/08; F26B 17/22

IPC 8 full level
   F26B 5/08 (2006.01); **F26B 17/22** (2006.01); **F26B 17/24** (2006.01)

CPC (source: EP US)
   F26B 5/08 (2013.01 - EP US); **F26B 17/24** (2013.01 - EP US)

Designated contracting state (EPC)
   DE

DOCDB simple family (publication)
   DE 19900042 A1 20000706; DE 50001785 D1 20030522; EP 1141643 A1 20011010; EP 1141643 B1 20030416; US 2002014019 A1 20020207;
   US 6655039 B2 20031202; WO 0040911 A1 20000713

DOCDB simple family (application)
   DE 19900042 A 19990104; DE 50001785 T 20000103; EP 0000006 W 20000103; EP 00901054 A 20000103; US 89745201 A 20010703