

Title (en)
DEVICE FOR DRYING GRANULES

Title (de)
VORRICHTUNG ZUR TROCKNUNG VON GRANULATKÖRNERN

Title (fr)
DISPOSITIF POUR SÉCHER DES GRANULÉS

Publication
EP 3555541 A1 20191023 (DE)

Application
EP 17797049 A 20171016

Priority
• DE 202016006420 U 20161017
• EP 2017001213 W 20171016

Abstract (en)
[origin: WO2018072871A1] The present invention relates to a device for drying granules, having a housing (1) with a granule-process fluid inlet (6), with a granule outlet (7) and with a fluid outlet, and having a rotatable rotor (2) which is arranged in said housing and which has rotor blades (3) arranged thereon, which rotor blades impart a movement direction to the granules and to a process fluid in each case, such that, there, the process fluid in which the granules are originally situated can be separated from the granules in a fluid discharge region with at least one screen (4) which surrounds the rotor (2) at least in sections at the outside and which has screen openings (5) with a size smaller than the granules, by virtue of said process fluid passing through from a screen front side to a screen rear side, wherein the rotor (2) has a hollow rotor shaft (9) with rotor bores (10) therein at least in sections, wherein a fan impeller (11) is attached coaxially to the rotor shaft (9) such that, by means of the fan impeller (11), air can be drawn into the interior of the hollow rotor shaft (9) via the granule outlet (7) and the rotor bores (10) and can be discharged from the housing (1) via a fan impeller air outlet (8).

IPC 8 full level
F26B 17/24 (2006.01); **B29B 9/16** (2006.01); **F26B 5/08** (2006.01)

CPC (source: EP KR US)
B29B 9/16 (2013.01 - KR US); **B29B 13/06** (2013.01 - EP KR US); **F26B 5/08** (2013.01 - EP KR US); **F26B 17/22** (2013.01 - EP US); **F26B 17/24** (2013.01 - EP KR US); **B29B 9/16** (2013.01 - EP); **F26B 2200/08** (2013.01 - EP KR US)

Citation (search report)
See references of WO 2018072871A1

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 202016006420 U1 20161107; CN 109952483 A 20190628; EP 3555541 A1 20191023; JP 2019532252 A 20191107; KR 20190070923 A 20190621; TW 201815541 A 20180501; US 2019240870 A1 20190808; WO 2018072871 A1 20180426

DOCDB simple family (application)
DE 202016006420 U 20161017; CN 201780064261 A 20171016; EP 17797049 A 20171016; EP 2017001213 W 20171016; JP 2019541852 A 20171016; KR 20197010913 A 20171016; TW 106135465 A 20171017; US 201916386556 A 20190417