

Title (en)

LIBERATION AND SEPARATION DEVICE COMPRISING A ROTOR AND AN AIRFLOW GENERATOR FOR CREATING A LOW PRESSURE ZONE IN A PARTICLE CONTACT AREA OF THE ROTOR

Title (de)

BEFREIUNGS- UND ABTRENN- VORRICHTUNG MIT EINEM ROTOR UND LUFTSTROMERZEUGER ZUM ERZEUGEN EINER NIEDERDRUCKZONE IN EINER PARTIKELKONTAKTFLÄCHE DES ROTORS

Title (fr)

DISPOSITIF DE LIBERATION ET SEPARATION COMPRENANT UN ROTOR ET UN GENERATEUR DE FLUX D'AIR POUR CREER UNE ZONE DE BASSE PRESSION DANS UNE ZONE DE CONTACT DES PARTICULES DU ROTOR

Publication

**EP 3154715 B1 20190320 (EN)**

Application

**EP 15736321 A 20150616**

Priority

- NL 2013001 A 20140616
- NL 2015050440 W 20150616

Abstract (en)

[origin: WO2015194949A1] A liberation and separation device (1) for separating a first fraction (2) of particles from a second fraction (3) of particles, comprising: a driven rotor (4), having a rotational axis and rotor blades (5) arranged for rotating around the rotational axis in a rotational direction (6), an infeed device (7) for introducing a particle stream into the liberation and separation device, a distribution device or area (9) for distributing the particle stream towards the rotor in a downwards particle inflow direction (10), to a particle contact area (11) where the particle stream contacts the rotor blades, an airflow generator (12) for generating an airflow towards the rotor in an air inflow direction (13) perpendicular to the particle inflow direction, wherein in the particle contact area the rotational direction is aligned with the air inflow direction for creating a low pressure zone in the particle contact area.

IPC 8 full level

**B07B 4/02** (2006.01); **B07B 7/086** (2006.01)

CPC (source: EP)

**B07B 4/025** (2013.01); **B07B 7/083** (2013.01); **B08B 5/04** (2013.01)

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

DOCDB simple family (publication)

**WO 2015194949 A1 20151223**; EP 3154715 A1 20170419; EP 3154715 B1 20190320; NL 2013001 B1 20160704

DOCDB simple family (application)

**NL 2015050440 W 20150616**; EP 15736321 A 20150616; NL 2013001 A 20140616