

Title (en)

DEVICE FOR MIXING POWDERS BY CRYOGENIC FLUID AND PROCESS

Title (de)

VORRICHTUNG ZUM MISCHEN VON PULVERN MIT KRYOGENEM FLUID UND VERFAHREN

Title (fr)

DISPOSITIF DE MÉLANGE DE POUDRES PAR FLUIDE CRYOGÉNIQUE ET PROCÉDÉ

Publication

**EP 3370855 B1 20191204 (FR)**

Application

**EP 16791565 A 20161103**

Priority

- FR 1560570 A 20151104
- EP 2016076506 W 20161103

Abstract (en)

[origin: WO2017076944A1] The invention relates mainly to a device (1) for mixing powders (P) by cryogenic fluid, characterised in that it comprises at least: a chamber (E1-En) for mixing powders (P), comprising a cryogenic fluid (FC); a chamber (A1, A2) for supplying powders (P) in order to allow the powders (P) to be introduced into the mixing chamber (E1-En); means (2) for agitation in the mixing chamber (E1-En) so as to allow the mixing of the powders (P) placed in suspension in the cryogenic fluid (FC).

IPC 8 full level

**B01F 23/70** (2022.01)

CPC (source: EP RU US)

**B01F 23/51** (2022.01 - US); **B01F 23/53** (2022.01 - US); **B01F 23/551** (2022.01 - US); **B01F 23/60** (2022.01 - RU US);  
**B01F 23/66** (2022.01 - EP US); **B01F 23/69** (2022.01 - EP US); **B01F 23/705** (2022.01 - US); **B01F 25/40** (2022.01 - RU);  
**B01F 25/4523** (2022.01 - EP US); **B01F 27/191** (2022.01 - EP US); **B01F 27/60** (2022.01 - RU); **B01F 27/61** (2022.01 - EP US);  
**B01F 27/80** (2022.01 - US); **B01F 31/80** (2022.01 - RU); **B01F 31/83** (2022.01 - US); **B01F 31/86** (2022.01 - EP US); **B01F 33/052** (2022.01 - US);  
**B01F 33/80** (2022.01 - RU); **B01F 33/811** (2022.01 - EP US); **B01F 35/75471** (2022.01 - US); **B01F 23/58** (2022.01 - US);  
**B01F 33/834** (2022.01 - US); **B01F 2101/57** (2022.01 - US)

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)

**FR 3042985 A1 20170505**; CN 108348874 A 20180731; CN 108348874 B 20210604; EP 3370855 A1 20180912; EP 3370855 B1 20191204;  
JP 2018538526 A 20181227; JP 6804530 B2 20201223; RU 2018120089 A 20191204; RU 2018120089 A3 20200207; RU 2718716 C2 20200414;  
US 10981126 B2 20210420; US 2018318778 A1 20181108; WO 2017076944 A1 20170511

DOCDB simple family (application)

**FR 1560570 A 20151104**; CN 201680064416 A 20161103; EP 16791565 A 20161103; EP 2016076506 W 20161103;  
JP 2018522568 A 20161103; RU 2018120089 A 20161103; US 201615772340 A 20161103