

Title (en)

DEVICE FOR SPRAYING LIQUID COATING PRODUCT

Title (de)

ROTATIONSZERSTÄUBER FÜR BESCHICHTUNGSMITTEL

Title (fr)

DISPOSITIF DE PULVERISATION DE PRODUIT DE REVETEMENT LIQUIDE

Publication

**EP 1480756 B2 20220518 (FR)**

Application

**EP 03722683 A 20030228**

Priority

- FR 0202638 A 20020301
- FR 0300662 W 20030228

Abstract (en)

[origin: WO03074187A1] The invention concerns a device for spraying liquid coating product comprising a hub (13) forming or housing a liquid feed duct and a divergent centrifugal deflector (14) comprising a bell-shaped distributing surface (18). The invention is applicable to electrostatic painting.

IPC 8 full level

**B05B 5/04** (2006.01); **B05B 5/08** (2006.01); **B05B 3/10** (2006.01)

CPC (source: EP US)

**B05B 3/1064** (2013.01 - EP US); **B05B 5/0407** (2013.01 - US); **B05B 15/18** (2018.01 - EP); **B05B 5/0407** (2013.01 - EP)

Citation (opposition)

Opponent :

- US 4928883 A 19900529 - WEINSTEIN RICHARD [US]
- DE 489988 C 19300124 - METALLGESELLSCHAFT AG
- US 2658472 A 19531110 - RANSBURG EDWIN M
- WO 9313867 A1 19930722 - MICRON SPRAYERS LTD [GB]
- FR 1452784 A 19660415 - SAMES MACH ELECTROSTAT
- EP 0032391 A1 19810722 - BEHR HANS [DE]
- GB 2361440 A 20011024 - FORD GLOBAL TECH INC [US]
- DE 8224329 U1 19830105
- Patent Abstracts of Japan vol. 2000, n° 04, (31.08.2000); JP 2000000496 A
- Revue spécialisée JOT 1978, fascicule 10. p.610:617

Cited by

US10413919B2

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PT SE SI SK TR

DOCDB simple family (publication)

**WO 03074187 A1 20030912**; AT E496703 T1 20110215; AU 2003229848 A1 20030916; CN 1323764 C 20070704; CN 1638875 A 20050713; DE 60335861 D1 20110310; EP 1480756 A1 20041201; EP 1480756 B1 20110126; EP 1480756 B2 20220518; ES 2357345 T3 20110425; ES 2357345 T5 20220617; FR 2836638 A1 20030905; FR 2836638 B1 20041210; JP 2005527345 A 20050915; PT 1480756 E 20110329; US 2003164406 A1 20030904; US 6659367 B2 20031209

DOCDB simple family (application)

**FR 0300662 W 20030228**; AT 03722683 T 20030228; AU 2003229848 A 20030228; CN 03804984 A 20030228; DE 60335861 T 20030228; EP 03722683 A 20030228; ES 03722683 T 20030228; FR 0202638 A 20020301; JP 2003572689 A 20030228; PT 03722683 T 20030228; US 16630802 A 20020611