

Title (en)

Rotary atomizer for coating workpieces with an effect laquer

Title (de)

Rotationszerstäuber zum Beschichten von Werkstücken mit Effektlack

Title (fr)

Pulvérisateur rotatif pour le revêtement de pièces avec une laque à effets

Publication

EP 1426113 A3 20040714 (DE)

Application

EP 04002679 A 19990325

Priority

- EP 99106063 A 19990325
- US 7956598 P 19980327

Abstract (en)

[origin: EP0951942A2] The method involves using electrostatic rotation atomizers with a rotating bell plate (22) on whose end surface the paint is fed over a flow surface (30) to a spray edge (32), from which the sprayed droplets containing the effect particles pass to a work piece. The paint material is fed to the spray edge on the flow surface in a surface region bounding on the edge in a direction at an essentially constant angle to the rotation axis. An Independent claim is also included for a rotation atomizer for series coating of work pieces.

IPC 1-7

B05B 5/04

IPC 8 full level

B05B 3/10 (2006.01); **B05B 5/04** (2006.01); **B05B 13/04** (2006.01); **B05B 7/08** (2006.01)

CPC (source: EP US)

B05B 3/1014 (2013.01 - EP US); **B05B 3/1042** (2013.01 - EP US); **B05B 3/1064** (2013.01 - EP US); **B05B 5/0407** (2013.01 - EP US); **B05B 13/0452** (2013.01 - EP US); **B05B 3/1092** (2013.01 - EP US); **B05B 5/0426** (2013.01 - EP US)

Citation (search report)

- [E] EP 0951945 A1 19991027 - ABB KK [JP]
- [XY] DE 3508970 C1 19860731 - WALTER GIERSEIPEN GMBH & CO
- [XY] US 2764712 A 19560925 - JUVINALL JAMES W
- [XY] DE 19506968 A1 19960814 - IND LACKIERANLAGEN SCHMIDT GMB [DE]
- [XY] US 5707009 A 19980113 - SCHNEIDER ROLF [DE]
- [Y] US 4909180 A 19900320 - OISHI SHOGO [JP], et al
- [XY] PATENT ABSTRACTS OF JAPAN vol. 0040, no. 38 (C - 004) 27 March 1980 (1980-03-27)

Cited by

WO2008068005A1; US8827181B2; US8141797B2; FR3087680A1; WO2020089242A1; US11998940B2

Designated contracting state (EPC)

BE DE ES FR GB IT NL SE

DOCDB simple family (publication)

EP 0951942 A2 19991027; **EP 0951942 A3 20020320**; **EP 0951942 B1 20040526**; CA 2267027 A1 19990927; CA 2267027 C 20111122; DE 59909556 D1 20040701; DE 59914567 D1 20080110; EP 1426113 A2 20040609; EP 1426113 A3 20040714; EP 1426113 B1 20071128; ES 2218895 T3 20041116; ES 2295711 T3 20080416; US 2001001946 A1 20010531; US 2001015384 A1 20010823; US 2004000604 A1 20040101; US 6189804 B1 20010220; US 6360962 B2 20020326; US 6623561 B2 20030923; US 7017835 B2 20060328

DOCDB simple family (application)

EP 99106063 A 19990325; CA 2267027 A 19990326; DE 59909556 T 19990325; DE 59914567 T 19990325; EP 04002679 A 19990325; ES 04002679 T 19990325; ES 99106063 T 19990325; US 27147799 A 19990317; US 60698303 A 20030626; US 76970601 A 20010125; US 76970701 A 20010125