

Title (en)

Apparatus for applying powder enamel to articles, in particular ceramic tiles

Title (de)

Vorrichtung zum Auftragen von Emailpulver auf Werkstücke, insbesondere auf Keramikplatten

Title (fr)

Appareil d'application d'email en poudre sur des pièces, en particulier des carreaux de céramique

Publication

EP 1334773 A3 20040102 (EN)

Application

EP 03002807 A 20030207

Priority

IT BO20020069 A 20020208

Abstract (en)

[origin: EP1334773A2] The apparatus for applying powder enamel to ceramic tiles includes a closed housing (2) containing powder enamel dispersed therein. Aspirator means are connected to the housing (2) and take out a flow of mixture containing air and powder enamel in solution from the housing (2), to send it under pressure toward an applicator (4). The applicator includes a half-spherical cap nozzle (45), in which a delivery notch (47) is made for delivering the above mixture of air and enamel in solution, with a preestablished aperture angle, onto a plurality of tiles (100) passing in a application chamber (5). The aperture angle can be adjusted by adjusting means (10). <IMAGE>

IPC 1-7

B05B 7/14; B05B 1/04; B05B 15/12; B05B 1/26; B05B 1/30

IPC 8 full level

B05B 1/04 (2006.01); **B05B 1/26** (2006.01); **B05B 1/30** (2006.01); **B05B 7/14** (2006.01); **B28B 11/04** (2006.01); B05B 1/32 (2006.01); B05B 15/12 (2006.01)

CPC (source: EP)

B05B 1/042 (2013.01); **B05B 1/267** (2013.01); **B05B 1/3073** (2013.01); **B05B 7/1454** (2013.01); **B05B 7/1472** (2013.01); **B05B 7/1486** (2013.01); **B28B 11/044** (2013.01); **B28B 11/048** (2013.01); **B28B 11/049** (2013.01); B05B 1/044 (2013.01); B05B 1/265 (2013.01); B05B 1/32 (2013.01); B05B 14/48 (2018.02)

Citation (search report)

- [XY] US 4730647 A 19880315 - MULDER DOUGLAS C [US]
- [X] US 3291630 A 19661213 - DEYLE OLIN H, et al
- [Y] US 5505566 A 19960409 - GRUBER JOHANN [CH]
- [Y] EP 0319417 A1 19890607 - PICARDIE SOC IND DE [FR]
- [Y] US 3017124 A 19620116 - KNIGHT HOUSTON W
- [Y] WO 8704643 A1 19870813 - NORDSON CORP [US]
- [A] GB 1007304 A 19651013 - ICI AUSTRALIA LTD
- [A] US 3734456 A 19730522 - VARRIN A, et al
- [A] US 2207758 A 19400716 - REHSE PAUL E
- [A] DE 724385 C 19420825 - RAYMOND FELIX SIMONIN

Cited by

CN111186004A; CN112549265A; WO2007066366A1

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)

EP 1334773 A2 20030813; **EP 1334773 A3 20040102**; IT BO20020069 A0 20020208; IT BO20020069 A1 20030808

DOCDB simple family (application)

EP 03002807 A 20030207; IT BO20020069 A 20020208