

Title (en)

DEVICE FOR APPLYING POWDERY GLAZE FOR DECORATING CERAMIC TILES OR SLABS

Title (de)

ANLAGE ZUM AUFTRAGEN EINER PULVERFÖRMIGEN GLASUR FÜR DIE DEKORATION VON KERAMISCHEN TEILEN ODER PLATTEN

Title (fr)

DISPOSITIF D'APPLICATION DE GLACURE EN POUDRE POUR LA DÉCORATION DE CARREAUX OU DALLES CÉRAMIQUES

Publication

**EP 3656521 A1 20200527 (EN)**

Application

**EP 19202323 A 20191009**

Priority

IT 201800009274 A 20181009

Abstract (en)

The applicator device (1) is suitable for transferring a predetermined design or decoration (D) to a ceramic tile or slab (PL), moved by a conveyor line (T) by means of powder glaze (S). The applicator device (1) comprises: dispensing means (2), from which the above powder enamel (S) falls by gravity; a metering unit (3), arranged under the dispensing means (2), in which a mobile resting surface (31), consisting of a plurality of conveyor elements (30) mutually placed side by side, receives the fallen enamel powder (S) and arranges it to form a continuous layer (H); a power element (32) for each conveyor element (30), which can be activated selectively to impart a predetermined incremental advance to it, such that a metered quantity of the respective powder glaze (S) falls, by gravity, onto the underlying tile or slab ceramic (PL) in transit; an electronic processing unit (4), in which a matrix of cells (C) with the instructions for reproducing the aforementioned predetermined design or decoration (D) is stored; a control and command unit (5), enslaved to the electronic processing unit (4), provided to operate each conveyor element (30) in phase relation with the advancement of the aforementioned ceramic tile or plate (PL), so that in each cell (C) is deposited the quantity of powder glaze (S) foreseen in the mentioned matrix.

IPC 8 full level

**B28B 11/04** (2006.01); **B05C 5/00** (2006.01); **B05C 19/04** (2006.01)

CPC (source: EP)

**B05C 19/04** (2013.01); **B28B 11/044** (2013.01); **B28B 11/047** (2013.01)

Citation (search report)

- [A] EP 2760594 B1 20151118 - SACMI [IT]
- [A] CH 329122 A 19580415 - CHANGEWOOD CORP [US]

Cited by

CN112372810A

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

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

**EP 3656521 A1 20200527**; **EP 3656521 B1 20220824**; ES 2929446 T3 20221129; IT 201800009274 A1 20200409

DOCDB simple family (application)

**EP 19202323 A 20191009**; ES 19202323 T 20191009; IT 201800009274 A 20181009