

Title (en)

A roller screen for decoration of tiles with fluid-jet nozzles

Title (de)

Rollensieb zur Dekoration von Fliesen mit Flüssigstrahldüsen

Title (fr)

Un écran rouleau à buses de jet de liquide pour la décoration des carreaux

Publication

EP 1726422 A3 20091021 (EN)

Application

EP 06076001 A 20060504

Priority

IT MO20050126 A 20050523

Abstract (en)

[origin: EP1726422A2] The device of the invention is applicable to ceramic tile decoration machines mounted in typical rotary silk screening machines. Essentially the device comprises a net wound about a roller (1) fixed by ends thereof to flanges (7) and rings (8) connected to the external machine for support and rotation thereof. The roller (1) is impregnated with liquid glaze (6) by the doctors (4,5) and nozzles (12) located inside the body blow a fluid at the net, transferring droplets of glaze (6) entrapped in the net onto the surface of the tile (3) to be decorated. The nozzles (12) are provided with microvalves so that a line of a decoration is formed by a predetermined combination of openings of at least a part of the nozzles (12).

IPC 8 full level

B28B 11/00 (2006.01)

CPC (source: EP)

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Citation (search report)

- [X] EP 1336480 A1 20030820 - GRUPPO CONCORDE SPA [IT]
- [X] WO 2004061347 A2 20040722 - UNIV LOUGHBOROUGH [GB], et al
- [A] WO 9941081 A1 19990819 - STORK BRABANT BV [NL], et al

Cited by

CN110962222A; DE102011015456A1; CN112454628A

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