

Title (en)

A DEVICE AND METHOD FOR INK-JET PRINTING ON SURFACES EXHIBITING RELIEFS OR RECESSES

Title (de)

VORRICHTUNG UND VERFAHREN FÜR TINTENSTRAHLDRUCK AUF OBERFLÄCHEN MIT HERVORHEBUNGEN ODER AUSSPARUNGEN

Title (fr)

DISPOSITIF ET PROCÉDÉ POUR IMPRESSION PAR JETS D'ENCRE SUR DES SURFACES PRÉSENTANT DES RELIEFS OU DES CREUX

Publication

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Application

**EP 11709803 A 20110201**

Priority

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- IT RE20100006 A 20100202

Abstract (en)

[origin: WO2011095865A2] An ink-jet device (20) exhibits at least a group of printing heads (21, 22, 23) which are independent of one another, where each head (21, 22, 23) comprises a plurality of ejector nozzles (25) of ink, aligned to form a line of action (26), a direction of the ink jets (27) issued from the nozzles (25) being perpendicular to the line of action (26), the lines of action (26) of the heads being arranged, in a plan view, parallel to one another. The surface (10) to be printed is moved in relation to the printing device (20), in a transversal direction with respect to the direction of the lines of action (26), internally of a field of action of the device (20). Each head (21, 22, 23) is assigned a respective strip of action (F21, F22, F23) on the surface (10), such that together the heads of the group interest a whole transversal dimension of the surface (10) to be printed on, and each head (21, 22, 23) is arranged with such an inclination that the respective line of action (26) is orientated practically parallel to a mean line of inclination of a transversal profile of the portion (10) of surface subjected to the strip of action (F21, F22, F23) of the head. The method enables printing on surfaces by means of an ink-jet printing device, in particular for ceramic tiles or other modular elements exhibiting reliefs or recesses having heights or depths which are of a relatively large entity, providing results which up to now have not been obtained.

IPC 8 full level

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