

Title (en)

Process for printing on aluminium bars with sublimable inks

Title (de)

Verfahren zum Drucken auf Aluminiumprofilstäbe unter Verwendung von sublimierbaren Druckfarben

Title (fr)

Procédé pour imprimer sur barres en aluminium utilisant des encres sublimables

Publication

EP 0810102 A1 19971203 (EN)

Application

EP 97600004 A 19970409

Priority

GR 96100183 A 19960531

Abstract (en)

A printing process to decorate Architectural Aluminum Profile bars achieved by the following steps. A colored powder coating is applied as a base coat. The coated aluminum profile bar is driven into a tunnel oven (3) for heating and the temperature is checked at the exit from the tunnel oven by optical thermometer (4). The hot bar enters immediately into a printing unit (5). Special constructed pressing silicon cylinders (11) force the transfer paper or transfer fabric (7) to cover the aluminum bar. The sublimable ink on the printing material penetrate the base coat, by sublimation, leaving the pattern on it. The printing materials are automatically removed after use (12). A transparent powder coating is applied as top coat to achieve maximum outdoor resistance. <IMAGE>

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IPC 8 full level

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CPC (source: EP)

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Citation (search report)

- [X] WO 9304872 A1 19930318 - TRUCHAN GARY [US], et al
- [X] EP 0070643 A2 19830126 - METAL BOX PLC [GB]
- [X] EP 0060107 A2 19820915 - BRITISH STEEL CORP [GB]
- [X] US 5337670 A 19940816 - HUANG CHUNG MING [TW]
- [X] EP 0623475 A1 19941109 - INTRON INGENIEUR UNTERNEHMUNG [CH]
- [X] US 4177299 A 19791204 - BIRKMAIER HORST [CH], et al
- [X] DE 9418552 U1 19950119 - PMD PAPIERDRUCK GMBH & CO KG [DE]
- [X] DE 4011215 A1 19901018 - LAVEZZARI S P A [IT]
- [X] DE 3010532 A1 19810924 - METALLOXYD GMBH [DE]
- [PX] WO 9629208 A1 19960926 - VIV INT SPA [IT], et al
- [X] US 4328268 A 19820504 - TSUJI YOSHIHARU, et al
- [X] DATABASE WPI Section Ch Week 9543, Derwent World Patents Index; Class A97, AN 95-335737, XP002022850

Cited by

ES2190835A1; ES2228182A1; ES2160463A1; ITMI20102321A1; EP1055524A1; ES2190834A1; ES2192902A1; US8017297B1; US8726964B2; WO2007129210A3; WO2007063565A1

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