

Title (en)

STRIP COATING METHOD FOR THE PRODUCTION OF A SEMI-FINISHED PRODUCT WITH A SURFACE STRUCTURE

Title (de)

BANDBESCHICHTUNGSVERFAHREN ZUR HERSTELLUNG EINES HALBZEUGS MIT EINER OBERFLÄCHENSTRUKTUR

Title (fr)

PROCEDE DE REVETEMENT DE BANDE DESTINE A LA FABRICATION D'UN SEMI-PRODUIT DOTE D'UNE STRUCTURE DE SURFACE

Publication

**EP 2965827 B1 20190508 (DE)**

Application

**EP 15173796 A 20150625**

Priority

DE 102014109548 A 20140708

Abstract (en)

[origin: RU2664065C2] FIELD: technological processes.SUBSTANCE: invention relates to a method for applying a coating onto strip metal for manufacturing a semi-finished product with a textured surface structure and can be used as a profiled sheet in facade works, when manufacturing garage doors or housings for household appliances. Said method of coating a strip metal for manufacturing a semi-finished product with a three-dimensional surface structure comprises at least one process step a – preparing a flat metal product and technological step b – application of structural coating and / or paint coating with three-dimensional shaping on the flat metal product. To create a structured texture of the coating and / or paint and varnish, a filtration coating application method is used. In the method, the production line for coating the strip of metal roll comprises at least a filtration coating application unit for the creation on a flat metal rolling a structured coating texture and / or a paint coating with three-dimensional shaping. Further, the installation of the filtration coating allows for the realization of the method for manufacturing a semi-finished product with a three-dimensional surface texture according to any of the preceding claims 1–12. And the semi-finished product includes a flat metal roll with a structural coating and / or paint coating applied using the method for applying a coating on a strip of rolled metal according to any one of the preceding claims 1–11.EFFECT: technical result of the invention is an increase in the reproducibility and variety of three-dimensional surface structures of semi-finished products.13 cl, 2 dwg

IPC 8 full level

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Citation (opposition)

Opponent : voestalpine Stahl GmbH

- WO 2011116485 A2 20110929 - COSMOCAN TECHNOLOGY AG [CH], et al
- CN 101745815 A 20100623 - AIMIN GE
- CN 101570079 A 20091104 - AIMIN GE [CN]
- EP 0201268 A2 19861112 - COOPER COATED COIL LTD [GB]
- CN 103144415 A 20130612 - YINGKOU CHAOSHUO FIGURE CODE TECHNOLOGY BOARD CO LTD
- WO 2012135968 A1 20121011 - COSMOBRAIN AG [CH], et al
- EP 0195099 A1 19860924 - HOOGO VENS GROEP BV [NL]
- GB 1581887 A 19801231 - SVENSKT STAL AB
- JP 2010179518 A 20100819 - KOTOBUKI SEIHAN PRINTING CO
- DE 102011015456 A1 20121004 - WALTHER THOMAS [DE]
- US 2013089714 A1 20130411 - MAEDA YUKIYA [JP], et al
- DE 3823742 A1 19900118 - MARTIN ROBERT [DE]
- DE 102010045011 A1 20120315 - WICKEDER WESTFALENSTAHL GMBH [DE]
- DE 102012008616 A1 20131031 - HOERMANN KG [DE]
- WO 2012019777 A1 20120216 - TATA STEEL UK LTD [GB], et al
- WO 2007104069 A2 20070920 - KERBER FRIEDRICH [AT]
- EP 2974875 A1 20160120 - LIAONING CHAOSHUO TOMA TECHNOLOGY STEEL PLATE PRINTING CO LTD [CN]
- CN 203032023 U 20130703 - LIAONING CHAOSHUO TUMA TECHNOLOGY PANEL CO LTD
- CN 202753569 U 20130227 - ZHANG JUN
- CN 101745815 A 20100623 - AIMIN GE
- "Handbuch der Printmedien", 2000, article H. KIPPHAN: "1 Grundlagen", pages: 138, 144 - 145, 430, XP055685706

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