

Title (en)

IMPROVED PROCESS FOR PRODUCING METAL MOULDS, SUCH AS SHEETS, CYLINDERS AND THE LIKE PROVIDED WITH AT LEAST ONE STRUCTURED SURFACE AND METAL STAMPS OBTAINED WITH THIS PROCESS

Title (de)

VERBESSERTES VERFAHREN ZUR HERSTELLUNG VON METALLGIESSFORMEN WIE BOGEN, ZYLINDER UND DERGLEICHEN MIT MINDESTENS EINER STRUKTURIERTEN OBERFLÄCHE UND MIT DIESEM VERFAHREN HERGESTELLTE METALLSTEMPEL

Title (fr)

PROCÉDÉ AMÉLIORÉ DE PRODUCTION DE MOULES MÉTALLIQUES, TELS QUE DES FEUILLES, DES CYLINDRES ET ANALOGUES POURVUS D'AU MOINS UNE SURFACE STRUCTURÉE ET TIMBRES MÉTALLIQUES OBTENUS SELON LEDIT PROCÉDÉ

Publication

**EP 3141399 B1 20210120 (EN)**

Application

**EP 16180441 A 20160720**

Priority

IT UB20153556 A 20150911

Abstract (en)

[origin: EP3141399A1] A process for producing a metal mould (1) provided with at least one structured surface (2) bearing a pattern (3) obtained by applying, to the surface (10) of an initial mould (4), a first protective layer (5) that reproduces said pattern (3) and subsequently treating the surface thus prepared with a corrosive substance suitable to create corroded portions (6), distinct from the uncorroded portions (7) coinciding with said protective layer (5). The invention also provides for applying, to the aforesaid surface (10) of the mould (4) a second protective layer (8) and subsequently treating the surface (10) thus obtained with a matting substance, suitable to form a structured surface (2) having corroded portions (6) with a degree of gloss different from that of the uncorroded portions (7). In relation to the prior art, the process of the invention can be used to obtain a metal mould provided with at least one structured surface in which, as no additional materials are used with respect to those forming the actual mould, the production costs are lower and the method as a whole is also simpler, faster and more effective. In this way, the mould with structured surface of the invention is reliable and durable, also because the absence of coatings on the structured surface of the invention prevents adhesion of the panel to the surface of the mould.

IPC 8 full level

**B44B 5/02** (2006.01); **B44C 1/22** (2006.01); **B44F 1/02** (2006.01)

CPC (source: EP)

**B44B 5/026** (2013.01); **B44C 1/227** (2013.01); **B44F 1/02** (2013.01)

Citation (opposition)

Opponent : HUECK Rheinische GmbH

- EP 2060658 A2 20090520 - HUECK ENGRAVING GMBH & CO KG [DE]
- EP 2497650 A1 20120912 - HUECK RHEINISCHE GMBH [DE]
- EP 2848424 A1 20150318 - HUECK RHEINISCHE GMBH [DE]
- DE 102012107827 A1 20140227 - SANDVIK SURFACE SOLUTIONS DIVISION OF SANDVIK MATERIALS TECHNOLOGY DEUTSCHLAND GMBH [DE]
- DE 202012004375 U1 20120611 - HUECK RHEINISCHE GMBH [DE]

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

DOCDB simple family (publication)

**EP 3141399 A1 20170315**; **EP 3141399 B1 20210120**; ES 2860935 T3 20211005; IT UB20153556 A1 20170311; PL 3141399 T3 20210913; PT 3141399 T 20210331

DOCDB simple family (application)

**EP 16180441 A 20160720**; ES 16180441 T 20160720; IT UB20153556 A 20150911; PL 16180441 T 20160720; PT 16180441 T 20160720