

Title (en)

Process for the manufacture of a mould from a binded material for metal foundry

Title (de)

Verfahren zur Herstellung einer Giessform aus einem Verbundformstoff für Giessereizwecke

Title (fr)

Procédé de fabrication d'un moule pour la fonderie de métaux à partir de matériau avec un liant

Publication

EP 1749596 A1 20070207 (DE)

Application

EP 05016479 A 20050729

Priority

EP 05016479 A 20050729

Abstract (en)

Method of preparing a casting mold from composite molding material for foundries consisting of a composition containing two different molding materials and which is heat resistant to metals. A solid molding body (2) is obtained from a foundry molding material (A) which is partially or completely enveloped by a fluid powdered chemically bonded foundry molding material (B). A molding material block (3) is produced from a block shaped composite molding material after hardening the material (B), which is subjected to a removal process, e.g. milling, boring, turning or grinding. A feedhead system (sic) (4) and storage system (5) using CAD data.

IPC 8 full level

B22C 9/02 (2006.01)

CPC (source: EP)

B22C 9/02 (2013.01)

Citation (applicant)

- JP S61245942 A 19861101 - HONDA MOTOR CO LTD
- NACH AMBOS: "URFORMTECHNIK METALLISCHER WERKSTOFFE", 1982, VERLAG FÜR GRUNDSTOFFINDUSTRIE, pages: 51

Citation (search report)

- [A] DE 10156332 A1 20030528 - ACTECH GMBH ADV CASTING TECH [DE]
- [A] EP 1334785 A1 20030813 - TEND APS X [DK]
- [A] US 6286581 B1 20010911 - GUSTAFSON RONALD [US]
- [A] US 4104347 A 19780801 - OHASHI YOSHINOBU, et al
- [A] EP 0317315 A2 19890524 - ROBERT D SA
- [A] US 2001001893 A1 20010531 - MATSUURA KOHICHI [JP]
- [A] US 2004238144 A1 20041202 - HENTSCHEL BERTRAM [DE], et al
- [A] US 6564852 B1 20030520 - WENDT FLORIAN [DE], et al
- [A] DE 10247715 A1 20040422 - ACTECH GMBH ADV CASTING TECH [DE]
- [A] PATENT ABSTRACTS OF JAPAN vol. 2003, no. 11 5 November 2003 (2003-11-05)
- [A] PATENT ABSTRACTS OF JAPAN vol. 010, no. 381 (M - 547) 19 December 1986 (1986-12-19)
- [A] FERREIRA J C: "Manufacturing core-boxes for foundry with rapid tooling technology", JOURNAL OF MATERIALS PROCESSING TECHNOLOGY, ELSEVIER, AMSTERDAM, NL, vol. 155-156, 30 November 2004 (2004-11-30), pages 1118 - 1123, XP004660993, ISSN: 0924-0136
- [A] AMBOS E ET AL: "MOEGLICHKEITEN UND VERFAHREN FUER DAS RAPID TOOLING VON DRUCKGIESSWERKZEUGEN", GIESSEREI, GIESSEREI VERLAG, DUSSELDORF, DE, vol. 88, no. 7, 10 July 2001 (2001-07-10), pages 31 - 35, XP001111761, ISSN: 0016-9765
- [A] MR. MATTI SIRVIÖ, SIMTECH SYSTEMS INC., "FROM REGIONAL INNOVATION TO INTERNATIONAL COMPETITIVENESS, 29.06.2005 THE BRUSSELS INNOVATION RELAY CENTER", 29 June 2005 (2005-06-29), Brussels, pages 1 - 25, XP002360313
- [A] U. SCHNARE, H.J. HUBENTHAL, F. SINN: "Patternless (tm) casting", TECHNO DIGEST KSB AG, vol. 10, December 2004 (2004-12-01), pages 6 - 9, XP002360314
- [A] VALVE WORLD 2002 CONFERENCE, November 2002 (2002-11-01), pages 1 - 9, XP002360315

Cited by

US8852478B2; DE102021122520A1

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA HR MK YU

DOCDB simple family (publication)

EP 1749596 A1 20070207; EP 1749596 B1 20070613; AT E364462 T1 20070715; DE 502005000878 D1 20070726; DK 1749596 T3 20071008; ES 2287844 T3 20071216

DOCDB simple family (application)

EP 05016479 A 20050729; AT 05016479 T 20050729; DE 502005000878 T 20050729; DK 05016479 T 20050729; ES 05016479 T 20050729