

Title (en)
PRODUCTION LINE AND METHOD FOR THE CONTINUOUS PRODUCTION OF CAST PARTS FROM A MOLTEN METAL, IN PARTICULAR A MOLTEN LIGHT ALLOY

Title (de)
FERTIGUNGSLINIE UND VERFAHREN ZUM IM KONTINUIERLICHEN DURCHLAUF ERFOLGENDEN HERSTELLEN VON GUSSTEILEN AUS EINER METALLISCHEN SCHMELZE, INSBESONDERE EINER LEICHTMETALLSCHMELZE

Title (fr)
LIGNE DE FABRICATION ET PROCEDE POUR REALISER EN CONTINU DES PIECES MOULEES A PARTIR D'UN METAL EN FUSION, EN PARTICULIER D'UN METAL LEGER EN FUSION

Publication
EP 1626830 B1 20060628 (DE)

Application
EP 04820597 A 20041217

Priority
• EP 2004014388 W 20041217
• DE 10360694 A 20031219

Abstract (en)
[origin: US2007169912A1] The invention relates to a production line for the production of cast parts (M) from a metallic melt, in particular a light molten metal, which takes place in a continuous cycle, comprising a plurality of functional units, including a core production unit (2) for the production of casting cores, a mould assembly unit (3) for assembling casting moulds (G) formed as core packages, a casting unit for filling the molten metal into the casting moulds (G), a cooling unit (5 a) for cooling the molten metal respectively contained in the casting moulds (G), and a demoulding unit (5 b) for destructive removal of the casting mould (G) from the cast part (M). A production line of this type allows economical and flexible production of cast parts, in particular motor units, with a high loading capacity and complex form according to the invention in that the functional units (2 to 5 b) successively passed through in each case are directly connected to each other by a respective conveying device (12, 19), and in that the clock with which the production line (1) ejects finished cast parts (M) is determined by the clock with which the core production unit (2) supplies the casting cores produced by it.

IPC 8 full level
B22D 47/02 (2006.01); **B22C 25/00** (2006.01); **B22D 33/00** (2006.01); **B22D 47/00** (2006.01)

CPC (source: EP US)
B22D 47/02 (2013.01 - EP US)

Cited by
DE102019134739B3; FR2911521A1; FR2911522A1; WO2008107558A1; DE102007008149A1; DE202008018001U1; EP2329900A2

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 MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)
US 2007169912 A1 20070726; US 7588070 B2 20090915; AT E331582 T1 20060715; AU 2004305239 A1 20050707; BR PI0414936 A 20061107; CA 2528474 A1 20050707; CN 1822912 A 20060823; DE 10360694 B3 20050630; DE 20320923 U1 20050609; DE 502004000896 D1 20060810; EP 1626830 A1 20060222; EP 1626830 B1 20060628; ES 2268667 T3 20070316; JP 2007514549 A 20070607; MX PA06000096 A 20060407; PL 1626830 T3 20061130; RU 2006104714 A 20070910; WO 2005061156 A1 20050707; WO 2005061156 A8 20050922; ZA 200510103 B 20061227

DOCDB simple family (application)
US 56295904 A 20041217; AT 04820597 T 20041217; AU 2004305239 A 20041217; BR PI0414936 A 20041217; CA 2528474 A 20041217; CN 200480019904 A 20041217; DE 10360694 A 20031219; DE 20320923 U 20031219; DE 502004000896 T 20041217; EP 04820597 A 20041217; EP 2004014388 W 20041217; ES 04820597 T 20041217; JP 2006544351 A 20041217; MX PA06000096 A 20041217; PL 04820597 T 20041217; RU 2006104714 A 20041217; ZA 200510103 A 20051212