

Title (en)
METHOD AND DEVICE FOR CONTINUOUS CASTING AND SUBSEQUENT FORMING OF A STEEL BILLET, ESPECIALLY A BILLET IN THE FORM OF AN INGOT OR A PRELIMINARY SECTION

Title (de)
VERFAHREN UND VORRICHTUNG ZUM STRANGGIESSEN UND ANSCHLIESSENDEM VERFORMEN EINES GIESSSTRANGES AUS STAHL, INSBESONDERE EINES GIESSSTRANGES MIT BLOCKFORMAT ODER VORPROFIL-FORMAT

Title (fr)
PROCEDE ET DISPOSITIF DE COULEE EN CONTINU ET DE FORMAGE SUBSEQUENT D'UNE BARRE DE COULEE EN ACIER, EN PARTICULIER D'UNE BARRE DE COULEE SOUS FORME DE LINGOT OU PREPROFILLEE

Publication
EP 1330321 B1 20040714 (DE)

Application
EP 01980448 A 20010928

Priority
• DE 10051959 A 20001020
• EP 0111222 W 20010928

Abstract (en)
[origin: US2004020633A1] A method and device for continuous casting and subsequent deformation of a cast strand (1) of steel, especially a cast strand (1) of an ingot shape (2) or a preliminary section shape, in which the secondary cooling (4) and the strand support (11) are matched to the cooling state of the cast strand cross section (1a) with respect to steel quality and in which the segregations and porosity are of significance with respect to further processing and the end uses of the product and require steps for improvement of the 10 internal quality and for the surface qualities, in which the secondary cooling (4) in its geometrical configuration is analogously matched to the solidification profile (5) of the cast strand (1) along the respective distance travelled (6) of the cast strand and in which the cast strand support (11) likewise is analogously reduced in dependence upon the solidification profile (5) of the cast strand (1) of the distance/travelled (6).

IPC 1-7
B22D 11/12; **B22D 11/124**

IPC 8 full level
B22D 11/12 (2006.01); **B22D 11/124** (2006.01); **B22D 11/128** (2006.01); **B22D 11/20** (2006.01); **B22D 11/22** (2006.01)

CPC (source: EP KR US)
B22D 11/12 (2013.01 - KR); **B22D 11/1206** (2013.01 - EP US); **B22D 11/1246** (2013.01 - EP US); **B22D 11/20** (2013.01 - EP US); **B22D 11/225** (2013.01 - EP US)

Cited by
DE102010022003A1; DE102010022003B4

Designated contracting state (EPC)
AT DE GB IT

DOCDB simple family (publication)
US 2004020633 A1 20040205; **US 6892794 B2 20050517**; AT E270933 T1 20040715; AU 1228902 A 20020506; CN 1222382 C 20051012; CN 1469789 A 20040121; DE 10051959 A1 20020502; DE 50102870 D1 20040819; EP 1330321 A1 20030730; EP 1330321 B1 20040714; JP 2004525767 A 20040826; KR 100817171 B1 20080327; KR 20030064758 A 20030802; RU 2271895 C2 20060320; UA 75616 C2 20060515; WO 0234432 A1 20020502

DOCDB simple family (application)
US 39974303 A 20030421; AT 01980448 T 20010928; AU 1228902 A 20010928; CN 01817686 A 20010928; DE 10051959 A 20001020; DE 50102870 T 20010928; EP 0111222 W 20010928; EP 01980448 A 20010928; JP 2002537467 A 20010928; KR 20037004264 A 20030325; RU 2003114736 A 20010928; UA 2003054487 A 20010928