

Title (en)
METHOD AND APPARATUS FOR THE VERTICAL CONTINUOUS CASTING OF A STEEL STRIP

Title (de)
VERFAHREN UND ANLAGE ZUM VERTIKALEN STRANGGIESSEN EINES STAHLBANDES

Title (fr)
PROCEDE ET DISPOSITIF DE COULEE CONTINUE VERTICALE D'UN FEUILLARD D'ACIER

Publication
EP 1412110 B1 20050921 (DE)

Application
EP 02724033 A 20020507

Priority
• AT 0200139 W 20020507
• AT 7232001 A 20010507

Abstract (en)
[origin: WO02090018A1] The invention relates to a method for the vertical continuous casting of a steel strip, whereby a billet (11) is firstly cast in a travelling mould (2) with a cross-section having a parallelogram-like form and then the above starting cross-section with thoroughly set longitudinal edges (10) and fluid core, is transformed into a strip (1) with plane parallel cross-section, in which the already set outer shell (9) of the billet (11), becoming increasingly thick with cooling is progressively pressed together in the direction of casting without deranging the longitudinal edges which are set through. According to the invention, advantageous conditions may be achieved, whereby, after pressing the billet (11) to give a strip (1) with a core (16) which is still fluid, the above is merely guided through a mould gap during the setting of the core, with a constant width, corresponding to the thickness of the set longitudinal edges (10) and is thus calibrated.

IPC 1-7
B22D 11/12

IPC 8 full level
B21B 1/46 (2006.01); **B22D 11/04** (2006.01); **B22D 11/06** (2006.01); **B22D 11/12** (2006.01); **B22D 11/128** (2006.01)

CPC (source: EP KR US)
B22D 11/12 (2013.01 - KR); **B22D 11/1206** (2013.01 - EP US); **B21B 1/463** (2013.01 - EP US); **B21B 2201/14** (2013.01 - EP US); **B21B 2201/18** (2013.01 - EP US)

Designated contracting state (EPC)
FR GB IT

DOCDB simple family (publication)
WO 02090018 A1 20021114; AT 410522 B 20030526; AT A7232001 A 20021015; CN 1232369 C 20051221; CN 1520344 A 20040811; DE 10291923 B4 20110630; DE 10291923 D2 20040415; EP 1412110 A1 20040428; EP 1412110 B1 20050921; JP 2004524167 A 20040812; JP 4232867 B2 20090304; KR 100907570 B1 20090714; KR 20030097852 A 20031231; US 2004188057 A1 20040930; US 6945311 B2 20050920

DOCDB simple family (application)
AT 0200139 W 20020507; AT 7232001 A 20010507; CN 02812689 A 20020507; DE 10291923 T 20020507; EP 02724033 A 20020507; JP 2002587136 A 20020507; KR 20037014479 A 20020507; US 47715404 A 20040517