

Title (en)
CONTINUOUS CASTING METHOD FOR SLAB

Title (de)
VERFAHREN ZUM STRANGGIESSEN VON PLATTEN

Title (fr)
PROCÉDÉ DE COULÉE EN CONTINU POUR DALLE

Publication
EP 2857122 A4 20160120 (EN)

Application
EP 12877100 A 20120524

Priority
JP 2012003388 W 20120524

Abstract (en)
[origin: EP2857122A1] A method of continuously casting a strand is characterized by using a movable reduction roll unit including rolls capable of reduction-rolling a strand and movable in a vertical direction from a mold along the strand, wherein, after the withdrawing of the strand is completed, the rolls are moved in a vertical direction and accordingly reduction-roll the stopped strand. The move of the rolls while reduction-rolling the strand may be in a vertically upward direction. In addition, the transverse cross section of the strand may be of a circular shape. With this continuous casting method, it is possible to reduce centerline cavities and porosity in a central region of a strand and shrinkage cavities and centerline cavities in an upper portion of the strand, regardless of the size of its cross sectional area, at a low equipment cost and without causing deterioration of the surface quality.

IPC 8 full level
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CPC (source: CN EP KR)
B21B 1/463 (2013.01 - KR); **B22D 11/041** (2013.01 - CN); **B22D 11/06** (2013.01 - KR); **B22D 11/10** (2013.01 - KR); **B22D 11/12** (2013.01 - KR); **B22D 11/1206** (2013.01 - CN EP KR); **B22D 11/128** (2013.01 - KR); **B22D 11/1281** (2013.01 - CN EP KR); **B22D 11/141** (2013.01 - EP KR); **B22D 11/20** (2013.01 - CN KR); **B22D 11/207** (2013.01 - EP KR); **B22D 11/22** (2013.01 - KR)

Citation (search report)

- [X] JP H08206803 A 19960813 - DAIDO STEEL CO LTD
- [I] EP 0417492 A2 19910320 - DAIDO STEEL CO LTD [JP]
- [E] JP 2013111587 A 20130610 - NIPPON STEEL & SUMITOMO METAL CORP
- [E] JP 2012115898 A 20120621 - SUMITOMO METAL IND
- [A] JP H06190521 A 19940712 - SUMITOMO METAL IND
- See references of WO 2013175536A1

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 2857122 A1 20150408; EP 2857122 A4 20160120; EP 2857122 B1 20170920; CN 104334297 A 20150204; ES 2651136 T3 20180124; IN 8553DEN2014 A 20150515; JP WO2013175536 A1 20160112; KR 20140147883 A 20141230; PL 2857122 T3 20180228; WO 2013175536 A1 20131128

DOCDB simple family (application)
EP 12877100 A 20120524; CN 201280073444 A 20120524; ES 12877100 T 20120524; IN 8553DEN2014 A 20141013; JP 2012003388 W 20120524; JP 2014516513 A 20120524; KR 20147031133 A 20120524; PL 12877100 T 20120524