

Title (en)

METHOD FOR PRODUCING STEEL STRIP OF CARBON STEEL

Title (de)

VERFAHREN ZUR ERZEUGUNG VON STAHLSTREIFEN AUS KOHLENSTOFFSTAHL

Title (fr)

PROCÉDÉ POUR PRODUIRE UNE BANDE D'ACIER EN ACIER AU CARBONE

Publication

EP 2880188 A1 20150610 (EN)

Application

EP 13744440 A 20130729

Priority

- EP 12005543 A 20120730
- EP 2013002241 W 20130729
- EP 13744440 A 20130729

Abstract (en)

[origin: WO2014019673A1] The invention relates to a method for producing steel strip of carbon steel using a thin slab caster such as a DSP or DSC for continuously casting the carbon steel or a conventional slab caster with a hot connect to a hot rolling installation, comprising the following steps: providing a molten steel containing the following elements (in weight %): 0.06 - 0.17 C, max 3.0 Mn, 0.1 - 2.0 Al(zo), max 0.01 Ca and optionally one or more of the following elements: max 1.0 Cr, max 2.0 Si, max 1.0 Mo, max 0.1 P, max 1.0 Cu, max 2.5 Ni, max 0.2 V, max 0.2 Ti, max 0.1 Nb, max 0.01 B the remainder being Fe and unavoidable impurities; providing the molten steel to the mould of a thin slab caster or conventional slab caster with hot connect; casting the steel into a strand; cutting the strand into slabs; rolling the slabs into strips after the slabs have undergone a temperature equalizing or reheating step. The invention also relates to hot rolled and cold rolled and annealed steel strip thus produced.

IPC 8 full level

C21D 8/02 (2006.01); **B21B 1/46** (2006.01); **B22D 11/12** (2006.01); **B22D 11/126** (2006.01); **C22C 38/00** (2006.01); **C22C 38/02** (2006.01); **C22C 38/06** (2006.01); **C22C 38/38** (2006.01)

CPC (source: EP KR)

B22D 11/1206 (2013.01 - EP KR); **C21D 8/021** (2013.01 - EP KR); **C21D 8/0226** (2013.01 - EP KR); **C21D 8/0236** (2013.01 - EP KR); **C22C 38/02** (2013.01 - EP KR); **C22C 38/06** (2013.01 - EP KR); **C22C 38/38** (2013.01 - EP KR)

Citation (search report)

See references of WO 2014019673A1

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

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

WO 2014019673 A1 20140206; CN 104603297 A 20150506; EP 2880188 A1 20150610; EP 2880188 B1 20160727; ES 2586507 T3 20161014; KR 102099488 B1 20200410; KR 20150038499 A 20150408; PL 2880188 T3 20161130

DOCDB simple family (application)

EP 2013002241 W 20130729; CN 201380044513 A 20130729; EP 13744440 A 20130729; ES 13744440 T 20130729; KR 20157005273 A 20130729; PL 13744440 T 20130729