

Title (en)

LOW SURFACE ROUGHNESS CAST STRIP AND METHOD AND APPARATUS FOR MAKING THE SAME

Title (de)

GEGOSSENES BAND MIT GERINGER OBERFLÄCHENRAUIGKEIT UND VERFAHREN UND VORRICHTUNG ZU SEINER HERSTELLUNG

Title (fr)

BANDE DE COULÉE À FAIBLE RUGOSITÉ DE SURFACE, PROCÉDÉ ET APPAREIL POUR FABRIQUER LADITE BANDE

Publication

EP 1989009 A4 20121017 (EN)

Application

EP 07701554 A 20070227

Priority

- AU 2007000227 W 20070227
- US 36268206 A 20060227

Abstract (en)

[origin: WO2007095695A1] A thin cast strip is formed having at least one microstructure selected from the group consisting of polygonal ferrite, acicular ferrite, Widmanstätten, bainite and martensite, a surface roughness of less than 1.5 microns Ra and a scale thickness of less than about 10 microns by applying a mixture of water and oil on the work rolls of the hot rolling mill, passing the thin cast strip at a temperature of less than 1100° C through the hot rolling mill while the mixture of oil and water is applied to the work rolls, and shrouding the thin cast strip from the casting rolls through the hot rolling mill in an atmosphere of less than 5 % oxygen to form the thin cast strip.

IPC 8 full level

B21B 1/26 (2006.01); **B21B 1/46** (2006.01); **B21B 27/10** (2006.01); **B21B 37/00** (2006.01); **B21B 45/02** (2006.01)

CPC (source: EP KR US)

B21B 1/26 (2013.01 - KR); **B21B 1/46** (2013.01 - EP KR US); **B21B 27/10** (2013.01 - KR); **B22D 11/06** (2013.01 - KR); **B21B 1/463** (2013.01 - EP US); **B21B 27/10** (2013.01 - EP US); **B21B 2027/103** (2013.01 - EP US); **B21B 2261/14** (2013.01 - EP US)

Citation (search report)

- [X] EP 0289775 A2 19881109 - VAW VER ALUMINIUM WERKE AG [DE]
- [A] WO 0224355 A1 20020328 - SMS DEMAG AG [DE], et al
- See references of WO 2007095695A1

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 LV MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)

WO 2007095695 A1 20070830; AU 2007219065 A1 20070830; AU 2007219065 B2 20120308; BR PI0708328 A2 20110524; BR PI0708328 B1 20190709; CN 101432083 A 20090513; CN 101432083 B 20130102; EP 1989009 A1 20081112; EP 1989009 A4 20121017; EP 1989009 B1 20141029; JP 2009528168 A 20090806; JP 2014100741 A 20140605; JP 5764282 B2 20150819; KR 101446937 B1 20141006; KR 101446993 B1 20141007; KR 20080096830 A 20081103; KR 20140077218 A 20140623; MA 30275 B1 20090302; MX 2008010670 A 20080905; MY 157942 A 20160830; NZ 571431 A 20110225; PL 1989009 T3 20151030; RU 2008138583 A 20100410; RU 2451566 C2 20120527; UA 94089 C2 20110411; US 2007199627 A1 20070830; US 2009126896 A1 20090521

DOCDB simple family (application)

AU 2007000227 W 20070227; AU 2007219065 A 20070227; BR PI0708328 A 20070227; CN 200780015265 A 20070227; EP 07701554 A 20070227; JP 2008555568 A 20070227; JP 2013249012 A 20131202; KR 20087022414 A 20070227; KR 20147014431 A 20070227; MA 31230 A 20080910; MX 2008010670 A 20070227; MY PI20083240 A 20070227; NZ 57143107 A 20070227; PL 07701554 T 20070227; RU 2008138583 A 20070227; UA A200811548 A 20070227; US 27220708 A 20081117; US 36268206 A 20060227