

Title (en)

METHOD AND DEVICE FOR CONTINUOUSLY PRODUCING A THIN METAL STRIP

Title (de)

VERFAHREN UND VORRICHTUNG ZUM KONTINUIERLICHEN HERSTELLEN EINES DÜNNEN METALLBANDES

Title (fr)

PROCEDE ET DISPOSITIF DE PRODUCTION CONTINUE D'UNE FINE BANDE METALLIQUE

Publication

EP 1799368 B1 20180117 (DE)

Application

EP 05792599 A 20050920

Priority

- EP 2005010129 W 20050920
- AT 17082004 A 20041013

Abstract (en)

[origin: WO2006042606A1] The invention relates to a method for continuously producing a thin metal strip, particularly a steel hot-rolled strip, directly from a metal melt and with a strip casting thickness of < 10 mm after the roll casting process. The cast metal strip is fed to an in-line thickness reduction and to a storage device afterwards. The aim of the invention is to achieve, in a continuous production process, directly from the metal melt and with a low strip casting thickness, a high-quality hot-rolled metal strip with comparable flatness tolerances that, at present, can be obtained during the production of hot-rolled metal strip from continuously cast thin slabs or slabs, with casting thicknesses ranging from 40 to 300 mm. To this end, a measurement of flatness is carried out on the moving metal strip, and the measurement results of this measurement of flatness are drawn upon for specifically influencing the flatness of the metal strip.

IPC 8 full level

B21B 1/46 (2006.01); **B21B 37/28** (2006.01); **B22D 11/06** (2006.01)

CPC (source: EP KR US)

B21B 1/46 (2013.01 - KR); **B21B 1/463** (2013.01 - EP US); **B21B 37/28** (2013.01 - EP KR US); **B22D 11/06** (2013.01 - KR); **B22D 11/0622** (2013.01 - EP US); **B21B 37/44** (2013.01 - EP US); **B21B 38/02** (2013.01 - EP US); **B21B 2261/21** (2013.01 - EP US); **B21B 2263/02** (2013.01 - EP US); **B21B 2263/04** (2013.01 - EP US); **Y10T 29/49991** (2015.01 - EP US)

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 2006042606 A1 20060427; **WO 2006042606 A8 20060629**; AT 501314 A1 20060815; AT 501314 B1 20120315; AU 2005297538 A1 20060427; AU 2005297538 B2 20100701; AU 2005297538 B8 20100715; BR PI0516088 A 20080819; BR PI0516088 B1 20190122; CA 2583295 A1 20060427; CA 2583295 C 20130528; CN 101039762 A 20070919; CN 101039762 B 20121107; EP 1799368 A1 20070627; EP 1799368 B1 20180117; ES 2666163 T3 20180503; JP 2008515647 A 20080515; JP 5096156 B2 20121212; KR 101282163 B1 20130704; KR 20070054261 A 20070528; MX 2007004473 A 20070711; RU 2007117720 A 20081120; RU 2381846 C2 20100220; TW 200611761 A 20060416; TW I418420 B 20131211; US 2009049882 A1 20090226; US 7963136 B2 20110621; ZA 200703672 B 20090930

DOCDB simple family (application)

EP 2005010129 W 20050920; AT 17082004 A 20041013; AU 2005297538 A 20050920; BR PI0516088 A 20050920; CA 2583295 A 20050920; CN 200580035162 A 20050920; EP 05792599 A 20050920; ES 05792599 T 20050920; JP 2007536019 A 20050920; KR 20077009862 A 20050920; MX 2007004473 A 20050920; RU 2007117720 A 20050920; TW 94132752 A 20050922; US 57729705 A 20050920; ZA 200703672 A 20050920