

Title (en)

METHOD AND APPARATUS FOR COOLING AND DRYING A HOT-ROLLED STRIP OR A METAL SHEET IN A ROLLING MILL

Title (de)

VERFAHREN UND VORRICHTUNG ZUR KÜHLUNG UND TROCKNUNG EINES WARMBANDES ODER EINES BLECHS IN EINEM WALZWERK

Title (fr)

PROCÉDÉ ET DISPOSITIF POUR REFROIDIR ET SÉCHER UN FEUILLARD À CHAUD OU UNE TÔLE DANS UN LAMINOIR

Publication

**EP 2326437 B1 20131002 (DE)**

Application

**EP 09777663 A 20090805**

Priority

- EP 2009005660 W 20090805
- DE 102008038277 A 20080818
- DE 102009023359 A 20090529

Abstract (en)

[origin: WO2010020343A1] A method for drying a strip (3) or sheet metal that runs through a rolling mill is characterized in that the strip (3) or the sheet metal is cooled to a lower temperature in a cooling section by means of a coolant, in particular a cooling liquid, downstream of a hot strip mill (1) or, in case of sheet metal, after passing through at least one roll stand (2), and in that the coolant, in particular the cooling liquid, and subsequently the moisture remaining on the strip (3) or the sheet metal is removed from the strip (3) or sheet metal by means of a drying apparatus (10).

IPC 8 full level

**B21B 45/02** (2006.01); **B08B 5/00** (2006.01)

CPC (source: EP KR US)

**B08B 5/00** (2013.01 - KR); **B21B 45/02** (2013.01 - KR); **B21B 45/0281** (2013.01 - EP US); **B26B 13/28** (2013.01 - US); **B26B 21/14** (2013.01 - EP US); **F26B 13/10** (2013.01 - EP US); **F26B 13/28** (2013.01 - EP US); **F26B 21/14** (2013.01 - EP US); **B21B 45/0218** (2013.01 - EP US)

Designated contracting state (EPC)

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 SE SI SK SM TR

DOCDB simple family (publication)

**DE 102009023359 A1 20100225**; BR PI0917303 A2 20151117; CN 102123801 A 20110713; EP 2326437 A1 20110601; EP 2326437 B1 20131002; JP 2012500119 A 20120105; JP 5490799 B2 20140514; KR 101335441 B1 20131202; KR 20110033947 A 20110401; RU 2011110263 A 20120927; US 2011162424 A1 20110707; US 9358598 B2 20160607; WO 2010020343 A1 20100225

DOCDB simple family (application)

**DE 102009023359 A 20090529**; BR PI0917303 A 20090805; CN 200980132207 A 20090805; EP 09777663 A 20090805; EP 2009005660 W 20090805; JP 2011523330 A 20090805; KR 20117004259 A 20090805; RU 2011110263 A 20090805; US 200913059885 A 20090805