

Title (en)

METHOD AND DEVICE FOR PREPARING HOT-ROLLING STOCK

Title (de)

VERFAHREN UND VORRICHTUNG ZUM AUFBEREITEN VON WARMWALZGUT

Title (fr)

PROCÉDÉ ET DISPOSITIF SERVANT À PRÉPARER UN PRODUIT DE LAMINAGE À CHAUD

Publication

EP 2416900 A1 20120215 (DE)

Application

EP 10711199 A 20100322

Priority

- EP 2010053680 W 20100322
- AT 5642009 A 20090409

Abstract (en)

[origin: WO2010115698A1] The invention relates to a method and to a device for preparing hot-rolling stock before shaping in a rolling stand or rolling relay (16). The aim of the invention is to create a method and a device having high energy efficiency and high descaling performance by means of which rolling stock can be produced at high quality. This aim is achieved by a method according to the invention wherein the rolling stock (6) is heated in an induction furnace (7) and then descaled before the rolling stock (14) is rolled in a rolling stand or a rolling relay (16), wherein the heated rolling stock (10) is descaled by at least one rotating water stream from a rotating descaling device (13); at least one temperature each of the descaled rolling stock (14) is then registered by a temperature measurement device (15) and supplied to a controller (18); and the controller (18) determines at least one variable (21) with the help of a control rule and in consideration of a target temperature and supplies a control organ, wherein at least one inductor of the induction furnace (7) is activated such that the temperature of the descaled rolling stock (14) corresponds to the target temperature as much as possible.

IPC 8 full level

B21B 37/74 (2006.01); **B21C 43/00** (2006.01)

CPC (source: EP KR US)

B21B 37/74 (2013.01 - EP KR US); **B21B 45/08** (2013.01 - KR); **B21C 43/00** (2013.01 - EP KR US); **B21B 15/005** (2013.01 - EP US); **B21B 38/00** (2013.01 - EP US); **B21B 38/006** (2013.01 - EP US); **B21B 45/004** (2013.01 - EP US); **B21B 45/06** (2013.01 - EP US); **B21B 45/08** (2013.01 - EP US)

Citation (search report)

See references of WO 2010115698A1

Cited by

RU2630106C2; EP3025799A1; WO2016083439A1

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)

AT 507663 A4 20100715; **AT 507663 B1 20100715**; BR PI1010255 A2 20160322; CN 102387874 A 20120321; CN 102387874 B 20141210; EP 2416900 A1 20120215; EP 2416900 B1 20130501; EP 2416900 B2 20211215; KR 101537539 B1 20150717; KR 20120004515 A 20120112; RU 2011145316 A 20130520; RU 2520302 C2 20140620; US 2012067095 A1 20120322; US 8950227 B2 20150210; WO 2010115698 A1 20101014

DOCDB simple family (application)

AT 5642009 A 20090409; BR PI1010255 A 20100322; CN 201080015748 A 20100322; EP 10711199 A 20100322; EP 2010053680 W 20100322; KR 20117026458 A 20100322; RU 2011145316 A 20100322; US 201013263901 A 20100322