

Title (en)

METHOD OF OPERATION FOR A COOLING TRACK FOR COOLING A ROLLING PRODUCT, WITH COOLING TO AN END ENTHALPY VALUE UNCOUPLED FROM TEMPERATURE

Title (de)

BETRIEBSVERFAHREN FÜR EINE KÜHLSTRECKE ZUM KÜHLEN EINES WALZGUTS MIT VON DER TEMPERATUR LOSGELÖSTER KÜHLUNG AUF EINEN ENDENTHALPIEWERT

Title (fr)

PROCÉDÉ DE GESTION D'UNE LIGNE DE REFROIDISSEMENT QUI REFROIDIT UN PRODUIT LAMINÉ AVEC REFROIDISSEMENT DÉCLENCHÉ PAR LA TEMPÉRATURE JUSQU'À UNE VALEUR FINALE D'ENTHALPIE

Publication

**EP 2244850 A1 20101103 (DE)**

Application

**EP 09715197 A 20090211**

Priority

- EP 2009051530 W 20090211
- DE 102008011303 A 20080227

Abstract (en)

[origin: WO2009106423A1] A control device (8) for a cooling track (1) for cooling a rolling product (5) accepts at least partially characteristic information (TA) for a starting enthalpy value. The control device (8) determines a refrigerant volume progression (K) such that a heat volume corresponding to the difference between the starting enthalpy value (EA) and a prespecified end enthalpy value (EE) is removed from a rolling product segment (12) of the rolling product (5) during the movement of said rolling product through the cooling track (1). The control device (8) determines the refrigerant volume progression (K) independently of whether a prespecified end temperature value (TE) assigned to the end enthalpy value (EE) is reached at the end of application of refrigerant (6) to the rolling product (5). The control device (8) applies refrigerant (6) to the rolling product segment (12) during its passage through the cooling track (1) according to the determined refrigerant volume progression (K).

IPC 8 full level

**B21B 37/76** (2006.01); **C21D 11/00** (2006.01)

CPC (source: EP US)

**B21B 37/76** (2013.01 - EP US)

Citation (search report)

See references of WO 2009106423A1

Cited by

US10413950B2; EP3099430B1

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 TR

Designated extension state (EPC)

AL BA RS

DOCDB simple family (publication)

**WO 2009106423 A1 20090903**; BR PI0907788 A2 20150714; BR PI0907788 A8 20150929; CN 102015137 A 20110413; CN 102015137 B 20130731; DE 102008011303 A1 20090910; DE 102008011303 B4 20130606; EP 2244850 A1 20101103; EP 2244850 B1 20130130; PL 2244850 T3 20130628; RU 2010139433 A 20120410; RU 2507017 C2 20140220; US 2010332015 A1 20101230; US 8369979 B2 20130205

DOCDB simple family (application)

**EP 2009051530 W 20090211**; BR PI0907788 A 20090211; CN 200980106805 A 20090211; DE 102008011303 A 20080227; EP 09715197 A 20090211; PL 09715197 T 20090211; RU 2010139433 A 20090211; US 86780809 A 20090211