

Title (en)

METHOD FOR COOLING HOT-ROLLED STEEL SHEET

Title (de)

KÜHLVERFAHREN FÜR EIN HEISSGEWALZTES STAHLBLECH

Title (fr)

PROCÉDÉ PERMETTANT DE REFROIDIR UNE TÔLE D'ACIER LAMINÉE À CHAUD

Publication

EP 2764932 B1 20180207 (EN)

Application

EP 12873475 A 20121206

Priority

JP 2012081670 W 20121206

Abstract (en)

[origin: EP2764932A1] The method for cooling a hot-rolled steel sheet of the invention includes a target ratio-setting process in which a top and bottom heat transfer coefficient ratio X_1 , at which a temperature standard deviation Y becomes a minimum value Y_{min} , is set as a target ratio X_t based on correlation data between a top and bottom heat transfer coefficient ratio X of the hot-rolled steel sheet and the temperature standard deviation Y of the hot-rolled steel sheet; and a cooling control process in which at least one of an amount of heat dissipated from a top surface by cooling and an amount of heat dissipated from a bottom surface by cooling of the hot-rolled steel sheet in the cooling section is controlled so that the top and bottom heat transfer coefficient ratio X of the hot-rolled steel sheet in the cooling section matches the target ratio X_t .

IPC 8 full level

B21B 37/76 (2006.01); **B21B 45/02** (2006.01)

CPC (source: EP KR)

B21B 37/76 (2013.01 - EP KR); **B21B 45/02** (2013.01 - KR)

Designated contracting state (EPC)

AL 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 RS SE SI SK SM TR

DOCDB simple family (publication)

EP 2764932 A1 20140813; **EP 2764932 A4 20150624**; **EP 2764932 B1 20180207**; BR 112013028835 A2 20170131;
BR 112013028835 B1 20220809; CN 103987470 A 20140813; CN 103987470 B 20150909; JP 5310965 B1 20131009;
JP WO2014087524 A1 20170105; KR 101467724 B1 20141201; KR 20140107102 A 20140904; WO 2014087524 A1 20140612

DOCDB simple family (application)

EP 12873475 A 20121206; BR 112013028835 A 20121206; CN 201280010631 A 20121206; JP 2012081670 W 20121206;
JP 2013512030 A 20121206; KR 20137022932 A 20121206