

Title (en)

DEVICE FOR ROLLING METAL SHEET MATERIAL AND METHOD FOR ROLLING METAL SHEET MATERIAL

Title (de)

VORRICHTUNG ZUM WALZEN VON METALLBLECHMATERIAL UND WALZVERFAHREN ZUM WALZEN VON METALLBLECHMATERIAL

Title (fr)

DISPOSITIF DE LAMAINAGE POUR MATÉRIAU EN FEUILLE MÉTALLIQUE ET PROCÉDÉ DE LAMINAGE POUR MATÉRIAU EN FEUILLE MÉTALLIQUE

Publication

**EP 2626149 A1 20130814 (EN)**

Application

**EP 12761152 A 20120305**

Priority

- JP 2011066153 A 20110324
- JP 2012055515 W 20120305

Abstract (en)

The present invention provides a device for rolling a metal sheet material including: a housing that accommodates roll chocks, includes a pair of first project blocks protruding inwardly and bearing a force in a rolling direction acting on a bottom work roll, and further includes a housing window that bears a force in the rolling direction acting on a top work roll; a first hydraulic cylinder provided to the pair of first project blocks and including a first piston rod that applies an increase-bending force to the top work roll; a second hydraulic cylinder provided to the pair of first project blocks and including a second piston rod that applies an increase-bending force to the bottom work roll; a third hydraulic cylinder provided to a top back up roll chock and including a third piston rod that applies a decrease-bending force to the top work roll, or brings the top work roll into contact with a top back up roll to generate a roll balance force; and, a fourth hydraulic cylinder including a fourth piston rod that applies a decrease-bending force to the bottom work roll.

IPC 8 full level

**B21B 13/14** (2006.01); **B21B 29/00** (2006.01); **B21B 31/20** (2006.01); **B21B 37/38** (2006.01)

CPC (source: EP KR)

**B21B 13/14** (2013.01 - KR); **B21B 29/00** (2013.01 - EP KR); **B21B 31/20** (2013.01 - KR); **B21B 37/38** (2013.01 - KR); **B21B 13/14** (2013.01 - EP); **B21B 31/18** (2013.01 - EP); **B21B 31/203** (2013.01 - EP); **B21B 2013/025** (2013.01 - EP); **B21B 2271/02** (2013.01 - EP)

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 2626149 A1 20130814**; **EP 2626149 A4 20140305**; **EP 2626149 B1 20150429**; CN 103237609 A 20130807; CN 103237609 B 20140528; JP 5059250 B1 20121024; JP WO2012128019 A1 20140724; KR 101392078 B1 20140507; KR 20130069875 A 20130626; TW 201304886 A 20130201; TW I496630 B 20150821; WO 2012128019 A1 20120927

DOCDB simple family (application)

**EP 12761152 A 20120305**; CN 201280003946 A 20120305; JP 2012055515 W 20120305; JP 2012524041 A 20120305; KR 20137013858 A 20120305; TW 101107452 A 20120306