

Title (en)

INTEGRATED BENDING AND BALANCING APPARATUS FOR ROLLING STANDS

Title (de)

INTEGRIERTE BIEGUNGS- UND AUSWUCHTUNGSVORRICHTUNG FÜR WALZGERÜSTE

Title (fr)

APPAREIL DE CINTRAGE ET D'ÉQUILIBRAGE INTÉGRÉ POUR CAGES DE LAMINAGE

Publication

EP 2836316 B1 20160601 (EN)

Application

EP 13725779 A 20130412

Priority

- IT MI20120598 A 20120412
- IB 2013052910 W 20130412

Abstract (en)

[origin: WO2013153533A1] An integrated apparatus (10) for bending and balancing the rolls of a rolling stand, adapted to bend the work rolls (2, 2') and to balance a top back-up roll (4) once the apparatus has been installed in the rolling stand, with the possibility of axially shifting the work rolls during the operation of rolling, the apparatus comprising: a bending device (8), provided with at least one top bending cylinder (9), adapted to operate on a chock (3) of a top work roll (2), and with at least one bottom bending cylinder (9'), adapted to operate on a chock (3') of a bottom work roll (2'); and a balancing device (12), provided with at least one balancing cylinder (13), adapted to operate on a chock (5) of the top back-up roll; wherein the balancing device is directly fixed to the bending device. A rolling stand is described, comprising a system of four apparatuses (10) arranged in pairs at the ends of the work rolls.

IPC 8 full level

B21B 29/00 (2006.01); **B21B 31/20** (2006.01)

CPC (source: EP RU)

B21B 29/00 (2013.01 - EP RU); **B21B 31/203** (2013.01 - EP); **B21B 31/18** (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)

WO 2013153533 A1 20131017; CN 104271276 A 20150107; CN 104271276 B 20160504; EP 2836316 A1 20150218; EP 2836316 B1 20160601; IT MI20120598 A1 20131013; RU 2584099 C1 20160520

DOCDB simple family (application)

IB 2013052910 W 20130412; CN 201380019599 A 20130412; EP 13725779 A 20130412; IT MI20120598 A 20120412; RU 2014145420 A 20130412