

Title (en)
METHOD FOR CALIBRATING VERTICAL ROLLS OF A VERTICAL ROLL STAND, AND ROLLING MILL WITH CALIBRATING ASSEMBLY FOR CARRYING OUT THE METHOD

Title (de)
VERFAHREN ZUR KALIBRIERUNG VON VERTIKALROLLEN EINES VERTIKALWALZGERÜSTS SOWIE WALZSTRASSE MIT EINER KALIBRIERANORDNUNG ZUR DURCHFÜHRUNG DES VERFAHRENS

Title (fr)
PROCÉDÉ D'ÉTALONNAGE DE ROULEAUX VERTICAUX D'UNE CAGE DE LAMINOIR VERTICAL ET LAMINOIR AVEC ENSEMBLE D'ÉTALONNAGE POUR LA MISE EN OEUVRE DU PROCÉDÉ

Publication
EP 4100177 B1 20240417 (DE)

Application
EP 21703693 A 20210205

Priority
• DE 102020201445 A 20200206
• DE 102020213243 A 20201020
• EP 2021052782 W 20210205

Abstract (en)
[origin: WO2021156424A1] The invention relates to a method for automatically calibrating vertical rollers (7) of a vertical roller frame (1), each of which rollers are mounted in a vertical roller unit (3) which is adjustable in relation to a specified center line (2) of a plurality of components arranged in a roller train. The method comprises the method steps of: a) adjusting the vertical roller units (3) to a calibration position crosswise to the center line (2) against at least one stationary stop of the vertical roller frame (1), which has a specific known position in relation to the center line (2), b) calculating a calibrated starting distance A_{kal} between an outside edge (13) of a vertical roller, which outside edge points toward a rolled material or to the center line (2), and the center line (2) in the calibration position, and c) engaging the vertical roller units (3) in a defined operating position. The invention further relates to a calibration arrangement on a vertical roller frame (1) for carrying out the method.

IPC 8 full level
B21B 13/06 (2006.01); **B21B 38/10** (2006.01)

CPC (source: EP US)
B21B 13/06 (2013.01 - EP US); **B21B 38/105** (2013.01 - EP US); **B21B 2261/06** (2013.01 - EP); **B21B 2273/22** (2013.01 - EP US)

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)
DE 102020213239 A1 20210812; CN 115103727 A 20220923; DE 102020213241 A1 20210812; DE 102020213243 A1 20210812; EP 4100177 A1 20221214; EP 4100177 B1 20240417; EP 4100178 A1 20221214; EP 4100178 B1 20240131; EP 4100178 C0 20240131; JP 2023513183 A 20230330; JP 7429302 B2 20240207; US 2023048632 A1 20230216; WO 2021156424 A1 20210812; WO 2021156425 A1 20210812; WO 2021156427 A1 20210812

DOCDB simple family (application)
DE 102020213239 A 20201020; CN 202180013149 A 20210205; DE 102020213241 A 20201020; DE 102020213243 A 20201020; EP 2021052778 W 20210205; EP 2021052780 W 20210205; EP 2021052782 W 20210205; EP 21703693 A 20210205; EP 21703897 A 20210205; JP 2022547869 A 20210205; US 202117796793 A 20210205