

Title (en)

DEVICE AND METHOD FOR ROLLING A METAL STRIP

Title (de)

VORRICHTUNG UND VERFAHREN ZUM WALZEN VON METALLISCHEM BAND

Title (fr)

DISPOSITIF ET PROCÉDÉ DE LAMINAGE D'UNE BANDE MÉTALLIQUE

Publication

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Application

EP 21777433 A 20210909

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Abstract (en)

[origin: WO2022063594A1] The invention relates to a device (10) and a method for rolling a metal strip. According to the invention, a distance between the upper/lower backup roll (18; 20) at at least one point thereof in each case and a predefined upper/lower reference point (P1; P2) is measured by an upper/lower sensor (25) and the measured values from the sensors are transmitted to a control device. Strain on the roll stand (12) is calculated using a mathematical model taking into account the roll force produced. By means of the control device, an absolute size of the roll gap and thus the resulting thickness of the rolling stock is determined on the basis of the measured positions of the backup rolls (18; 20) and the calculated strain on the roll stand (12), and, by means of the control device, this absolute value for the roll gap is compared with a target value for the roll gap and, on the basis thereof, at least one backup roll (18; 20) is then vertically adjusted in order to set the roll gap to the target value in a controlled manner.

IPC 8 full level

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CPC (source: EP US)

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Citation (search report)

See references of WO 2022063594A1

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