

Title (en)

FLATNESS-MEASURING DEVICE, HOT-ROLLING MILL, AND METHOD FOR OPERATING A FLATNESS-MEASURING DEVICE

Title (de)

PLANHEITSMESSVORRICHTUNG, WARMWALZANLAGE UND VERFAHREN ZUM BETREIBEN EINER PLANHEITSMESSVORRICHTUNG

Title (fr)

DISPOSITIF DE MESURE DE PLANÉITÉ, LAMINOIR À CHAUD ET PROCÉDÉ D'ACTIONNEMENT D'UN DISPOSITIF DE MESURE DE PLANÉITÉ

Publication

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Application

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Abstract (en)

[origin: WO2022043069A1] The invention relates to a flatness-measuring device (1) for measuring the flatness of a hot-rolled strip (2) within a hot-rolling mill, comprising: - at least one entry-side deflection roller (3) for contacting a first large side of the hot-rolled strip (2); - at least one exit-side deflection roller (5) for contacting the first large side of the hot-rolled strip (2); and - at least one central deflection roller (7), which is disposed between the entry-side deflection roller (3) and the exit-side deflection roller (5) with respect to a strip running direction (6) of the hot-rolled strip (2), can be placed against a second large side of the hot-rolled strip (2) opposite from the first large side of the hot-rolled strip (2), and is used as a flatness-measuring roller. In order to prevent the hot-rolled strip (2) from running laterally in a hot-rolling mill during a flatness measurement on the hot-rolled strip (2), the flatness-measuring device (1) has at least one sensing apparatus (8) for sensing an actual position (L_{ist}) of the hot-rolled strip (2) and at least one adjusting apparatus (9), which is connected to the sensing apparatus (8) and to at least one of the deflection rollers (3, 5, 7) and is designed to vary an angle (α) between a longitudinal central axis (10) of the deflection roller (3, 5, 7) connected to the adjusting apparatus (9) and a longitudinal axis (11) of the flatness-measuring device (1) running transversely to the deflection rollers (3, 5, 7) in accordance with the deviation of the actual position (L_{ist}) of the hot-rolled strip (2) from a predefined target position (L_{Soll}) of the hot-rolled strip (2).

IPC 8 full level

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