

Title (en)

STRAIGHTENING MACHINE AND METHOD FOR STRAIGHTENING A METAL STRIP OR A FLAT METAL PART

Title (de)

RICHTMASCHINE UND VERFAHREN ZUM RICHTEN EINES METALLBANDES ODER EINES FLÄCHIGEN METALLTEILS

Title (fr)

MACHINE À DRESSER ET PROCÉDÉ DE REDRESSAGE D'UNE BANDE MÉTALLIQUE OU D'UNE PIÈCE MÉTALLIQUE PLATE

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Application

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Abstract (en)

[origin: WO2022002551A1] The present invention relates to a straightening machine (1) and a method for straightening a metal strip or a flat metal part (16) by means of the straightening machine (1), having a number of upper straightening rollers (3) in an upper roller frame (2) and a number of lower straightening rollers (6) in a lower roller frame (5), wherein the upper and lower straightening rollers (3, 6) are arranged such that they form an upper roller frame level (4) and a lower roller frame level (7) and form a straightening nip (11) between the upper and lower roller frame levels (4, 7) between an inlet (12) and an outlet (13) of the straightening machine (1), in order to act at least intermittently on the metal strip (16) or metal part to be straightened from above and below and to guide same through the straightening machine (1) in a working direction (14) from the inlet (12) to the outlet (13) when in a working position in which the upper roller frame level (4) forms a working angle (8) to the lower roller frame level (7), and wherein the straightening nip (11) is changed by adjusting the upper roller frame level (4) relative to the lower roller frame level (7). Before or at the start of a straightening process, the upper and/or lower roller frame (2, 5) is put in a starting position with a widened straightening nip, at least until a front end of the material strip or material part has entered the inlet (12) of the working region of the straightening machine (1), and for the rest of the straightening process, the upper and/or lower roller frame (2, 5) is put in the working position. When put in the starting position, the straightening nip (11) is wider at the inlet (12) than at the outlet (13) or wider at the outlet (13) than at the inlet (12).

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