

Title (en)

METHOD AND APPARATUS FOR WINDING UP METAL STRIPS ONTO A WINDING MANDREL

Title (de)

VERFAHREN UND VORRICHTUNG ZUM AUFWICKELN VON METALLBÄNDERN AUF EINEN WICKELDORN

Title (fr)

PROCÉDÉ ET DISPOSITIF D'ENROULEMENT DE FEUILLARDS MÉTALLIQUES SUR UN MANDRIN D'ENROULEMENT

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Application

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Abstract (en)

[origin: WO2008037395A1] The invention relates to a method and an apparatus for winding up metal strips (2) onto a winding mandrel (3), which is arranged in a reeling shaft (1) and to which the metal strip is passed by a driver having a lower and an upper driver roller (5, 6), wherein a table (7) is provided underneath the metal strip (2) for guidance and a pivotable strip diverter and, adjoining the latter almost up to the winding mandrel (3), a pivotable shaft flap (11) are arranged above the metal strip. By measuring the strip tension in the reeling shaft, it is intended to regulate the driver in such a way that the running of the strip makes it possible for the metal strip to be wound up to form a coil with straight edges. To achieve this, the longitudinal tensile force exerted on the metal strip (2) by the driver is determined by means of a strip tension measuring device (13), which dips into the metal strip from above in the reeling shaft (1), and the measuring signal is passed to a driver regulating device (22) to control the running of the strip by the driver. In the case of an apparatus suitable for this purpose, the strip diverter is formed as a strip tension measuring device (13) which dips into the metal strip (2) from above and is provided with a diverter body, which has a rotatably mounted roller arm (16), carrying a roller (17) at its front end, wherein a force measuring means (20) that is connected in signalling terms to the regulating device (22) is arranged between the diverter body and the roller arm (16).

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