Title (en)
APPARATUS AND METHOD FOR GUIDING A STRIP

Title (de)
VORRICHTUNG UND VERFAHREN ZUM FÜHREN EINES BANDES

Title (fr)
DISPOSITIF ET PROCÉDÉ POUR GUIDER UNE BANDE

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Abstract (en)
[origin: US7827872B2] The invention relates to an apparatus and a method for guiding a strip, in particular a metal strip. Known apparatuses of this type have a carrier device (110) on which bearing blocks (120) arm fastened. Rollers (130) are rotatably mounted in the bearing blocks in order to guide the strip. So that the roller force acting on the roller in the loading case, i.e. during the guidance of the strip, can be measured in a lasting and reliable manner, it is proposed according to the invention to detect the deformation of the bearing block, in particular in the loading case, by means of a sensor device and ten to calculate the roller force required from the deformation of the bearing block by means of an evaluating device.

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EP 2007004753 W 20070530; ES 07725644 T 20070530; JP 2009513575 A 20070530; KR 20087020981 A 20070530;
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