

Title (en)

Method and device for levelling flat metal products, such as metal bands, sheet metal

Title (de)

Verfahren und Vorrichtung zum Richten von flachen metallischen Produkten sowie Blechen, Metallbanden

Title (fr)

Procédé et dispositif de planage de produits plats métalliques, tels que bandes, toles ou feuilles

Publication

EP 0730918 A1 19960911 (FR)

Application

EP 96400488 A 19960308

Priority

FR 9502852 A 19950308

Abstract (en)

A process is claimed for planishing flat metal products (30) such as plates, sheets or strip. The product is passed between two assemblies of planishing rollers (5,51,53). The rollers (51) of one assembly being staggered in the direction of defilement (F) with respect to the rollers (53) of the other assembly. The two assemblies are spaced and positioned in such a manner that the product is subjected to a series of alternate flexions of decreasing amplitude. Compensation is made for the strain of the rollers provoked by the stresses imposed by the product on the rollers. This compensation is applied independently for each roller, in a manner that ensures that all the longitudinal fibres of the product are subjected to the series of bending deformations for which the amplitudes and the variations of the amplitude in the direction of defilement are essentially identical over the width of the product. The device used to put this process into service is also claimed.

Abstract (fr)

Le dispositif de planage selon l'invention comprend au moins un ensemble de deux sommiers (1, 3) pourvus chacun d'un ensemble de rouleaux planeurs (51). Chaque rouleau est pourvu de ses propres moyens de compensation du cé dage (65), réglables indépendamment d'un rouleau à l'autre. On peut ainsi compenser le cé dage de manière indépendante pour chaque rouleau, de manière à soumettre toutes les fibres longitudinales du produit à des successions de déformations de flexion ayant des amplitudes et des variations d'amplitude dans le sens de défilement qui sont sensiblement identiques sur toute la largeur, au moins sur les rouleaux situés en aval vers la sortie de la planeuse. L'invention s'applique au planage de tôles, feuilles ou bandes métalliques, notamment en acier. <IMAGE>

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Citation (search report)

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