

Title (en)

METHOD AND COMPUTER PROGRAM FOR CONTROLLING A ROLLING PROCESS

Title (de)

VERFAHREN UND COMPUTERPROGRAMM ZUM STEUERN EINES WALZPROZESSES

Title (fr)

PROCEDE ET PROGRAMME INFORMATIQUE POUR LA COMMANDE D'UNE OPERATION DE LAMINAGE

Publication

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Application

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Abstract (en)

[origin: US2008127696A1] The invention relates to a method for controlling a rolling process, in which a metal strip is rolled flat by use of at least one roller. It is known from the prior art that the relative position of a neutral point represents a measure of the instantaneous stability of a rolling process. However, traditional methods for calculating the position of the neutral point do not accurately represent the actual properties of metal and therefore have only limited usefulness for predicting the stability of a rolling process. In order to allow better control of a rolling process for rolling a metal strip with regard to the actual behavior of the metal strip, the invention proposes a new method for calculating the relative position of the neutral point, in which in particular the flat yield stress  $k_{\text{SUB}e}$  and the hydrostatic pressure  $p_{\text{SUB}N}$  at the neutral point are incorporated.

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