

Title (en)  
METHOD FOR THE MODEL-BASED DETERMINATION OF ACTUATOR NOMINAL VALUES FOR THE ASYMMETRIC ACTUATORS OF THE ROLL STANDS OF A HOT WIDE STRIP MILL

Title (de)  
VERFAHREN ZUR MODELLBASIERTEN ERMITTLUNG VON STELLGLIED-SOLLWERTEN FÜR DIE ASYMMETRISCHEN STELLGLIEDER DER WALZGERÜSTE EINER WARMBREITBANDSTRASSE

Title (fr)  
PROCÉDÉ DE DÉTERMINATION, BASÉE SUR UN MODÈLE, DE VALEURS THÉORIQUES POUR LES ACTIONNEURS ASYMÉTRIQUES DES CAGES D'UN LAMINOIR À CHAUD À LARGES BANDES

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Application  
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Abstract (en)  
[origin: WO2011038965A1] The invention relates to a design for the model-based determination of actuator nominal values for a hot wide strip mill comprising a plurality of roll stands, by which means the application of the actuator nominal values enables the adjustment of a desired target contour of the roll gaps of the stands. In a first method step, a nominal speed conicity of the hot strip is defined after each stand. In the second step, values for the strip thickness contours at the outlets of the stands are determined by means of strip flatness models. In the third step, roll separating force distributions to be applied for each stand are distributed by means of material flow models. In the fourth step, the target contour for the strip advancement actuators is determined, while in the fifth step, the actuator nominal values are calculated, for each stand, from the target contour by means of an optimising method.

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