

Title (en)

METHOD AND APPARATUS TO SUPPRESS VIBRATIONS IN A ROLLING MILL

Title (de)

VERFAHREN UND VORRICHTUNG ZUR UNTERDRÜCKUNG VON SCHWINGUNGEN IN EINER WALZANLAGE

Title (fr)

PROCÉDÉ ET DISPOSITIF DE SUPPRESSION DES OSCILLATIONS DANS UN SYSTÈME DE LAMINAGE

Publication

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Application

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Abstract (en)

[origin: WO2009153101A1] The present invention relates to a method and to an apparatus for suppression of vibrations in a rolling mill. The problem of the invention is to create a method and an apparatus having a hydraulic roller actuator for the suppression of vibrations in a rolling mill, with which in particular the third-octave vibrations can be effectively suppressed and thereby the quality of the rolled material and/or the productivity of the rolling mill can be improved. This problem is solved by a method in which the control variable is supplied to an electro-hydraulic actuating unit and then due to this actuating unit at least one hydraulic actuator for the roller setting is actuated, wherein the electro-hydraulic actuating unit has a nominal rate of flow = 50 l/min and at least a portion of the frequency response at frequencies $f = 80$ Hz is characterized by a drop in value of = 3 dB, and in this frequency range, the phase drop φ satisfies the conditions (I) and $\varphi < 90^\circ$.

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