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

EP 2285506 A1 20110223 (DE)

Application

EP 09765681 A 20090507

Priority

- EP 2009055526 W 20090507
- AT 9792008 A 20080618

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 ? satisfies the conditions (I) and ? < 90°.

IPC 8 full level

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CPC (source: EP US)

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