Title (en)

COMPENSATION FOR TRANSVERSE VIBRATIONS IN UNBALANCED MASS VIBRATORS

Title (de)

KOMPENSATION VON QUERSCHWINGUNGEN AN UNWUCHTVIBRATOREN

Title (fr)

COMPENSATION DE VIBRATIONS TRANSVERSALES DANS DES VIBRATEURS A BALOURD

Publication

EP 0801596 B1 19990324 (DE)

Application

EP 95927702 A 19950720

Priority

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Abstract (en)

[origin: DE4425905A1] A device and process are proposed for compensating for transverse vibrations in vibrators with a predetermined direction of vibration. Transverse vibrations in vibrators may be undesirable. To compensate for, or at least reduce, transverse vibrations, the proposed solution uses an active method: the transverse vibrations are measured as vibration path components or, in the case of the associated phenomenon of the directional deviation of the driving force, as deviations of the angles of rotation of the unbalanced mass from their preset position. On the basis of these measurements, the energy applied to the drive motors is adjusted using a suitable adjusting element, thereby, by appropriate torque adjustment, altering the resulting driving force so as to reduce the transverse vibrations. The proposed device and process can be used especially with vibrators which use so-called self-synchronisation.

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