

Title (en)

METHOD FOR MONITORING THE OPERATING STATE OF ROTATING ROLLERS IN AN INDUSTRIAL INSTALLATION

Title (de)

VERFAHREN ZUR ÜBERWACHUNG DES BETRIEBSZUSTANDES ROTIERENDER WALZEN IN EINER INDUSTRIELLEN ANLAGE

Title (fr)

PROCEDE DE SURVEILLANCE DE L'ETAT DE FONCTIONNEMENT DES ROULEAUX ROTATIFS D'UNE INSTALLATION INDUSTRIELLE

Publication

EP 1920223 A1 20080514 (DE)

Application

EP 06741658 A 20060620

Priority

- CH 2006000333 W 20060620
- DE 102005040978 A 20050829

Abstract (en)

[origin: WO2007025395A1] The inventive method for monitoring the operating state of rotating rollers in an industrial installation, which contains one or more rotating rollers, comprises the following steps: a) recording, in the form of a time-variable electrical signal, the vibrations, which are generated by the roller when in operation, during a predetermined time interval during operation; b) determining the instantaneous frequency spectrum of the time-variable electrical signal for the predetermined time interval; c) comparing the determined frequency spectrum with a reference frequency spectrum provided beforehand, which corresponds to a defined operating state of the rotating roller, and determining an instantaneous difference between the instantaneous frequency spectrum and the reference instantaneous frequency spectrum, and; d) initiating a measure if the difference between the spectra, which is determined in step c), is greater than a permitted limit difference between the spectra.

IPC 8 full level

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CPC (source: EP)

G01H 1/003 (2013.01); **B02C 4/28** (2013.01)

Citation (search report)

See references of WO 2007025395A1

Citation (examination)

- EP 0209862 A2 19870128 - HITACHI LTD [JP]
- JP H04123807 A 19920423 - TOSHIBA CORP

Designated contracting state (EPC)

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