

Title (en)

METHOD AND ARRANGEMENT FOR MONITORING AN INDUSTRIAL DEVICE SUCH AS, FOR EXAMPLE, A MACHINE OR A SYSTEM

Title (de)

VERFAHREN UND ANORDNUNG ZUR ÜBERWACHUNG EINER TECHNISCHEN EINRICHTUNG WIE Z.B. EINER MASCHINE ODER EINER ANLAGE

Title (fr)

PROCÉDÉ ET SYSTÈME DE SURVEILLANCE D'UN ÉQUIPEMENT TECHNIQUE TEL QU'UNE MACHINE OU UNE INSTALLATION

Publication

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Application

EP 13766918 A 20130912

Priority

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Abstract (en)

[origin: WO2015036021A1] When monitoring an industrial device (2) such as, for example, a machine or a system, wherein the device (2) comprises a rotating component (3) and a bearing (4) for this component, wherein acoustic emissions of the device (2) in a first frequency band (71) in the ultrasound range are recorded during operation of the device (2), acoustic emissions of the device (2) in a second frequency band (72) in the ultrasound range are recorded, wherein the first frequency band (71) and the second frequency band (72) do not overlap, wherein at least one characteristic value for the condition of the bearing (4) is determined from the acoustic emissions of the device (1) in the first frequency band (71), according to the invention at least one characteristic value for a process variable of a process taking place in the device (2) is determined from the acoustic emissions of the device (2) in the second frequency band (72). As a result, the monitoring of an industrial device such as, for example, a machine or a system can be further improved, with the measurement complexity remaining the same or even being reduced.

IPC 8 full level

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CPC (source: EP US)

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