

Title (en)

VIBRATION SENSOR AND METHOD FOR MONITORING THE CONDITION OF ROTATING COMPONENTS AND BEARINGS

Title (de)

SCHWINGUNGSSENSOR UND VERFAHREN ZUR ZUSTANDS BERWACHUNG VON ROTIERENDEN BAUTEILEN UND LAGERN

Title (fr)

DETECTEUR DE VIBRATIONS ET PROCEDE DE SURVEILLANCE D'ETAT DE PIECES ET DE PALIERS TOURNANTS

Publication

**EP 1502086 A2 20050202 (DE)**

Application

**EP 03749854 A 20030414**

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Abstract (en)

[origin: US2005155429A1] A vibration sensor ( 1 ) for monitoring the state of rotating components or bearings, includes a housing ( 2 ), a sensor element ( 3 ), evaluation electronics ( 4 ), and at least one interface ( 5, 6 ). With the vibration sensor ( 1 ), reliable monitoring of the state of rotating components and bearings can be done easily and economically, and in addition the vibration sensor can be easily operated. The evaluation electronics ( 4 ) has an analog-to-digital converter ( 7 ), and a signal conditioning means ( 8 ) having a plurality of signals, which have been acquired by the sensor element ( 3 ), and which are converted into a state value using signal analysis and a diagnosis algorithm.

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IPC 8 full level

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