

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

Priority

- DE 10216575 A 20020413
- DE 10228389 A 20020625
- EP 0303731 W 20030414

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.

IPC 1-7

G01H 1/00

IPC 8 full level

G01H 1/00 (2006.01); **G01N 29/00** (2006.01)

IPC 8 main group level

G01H (2006.01)

CPC (source: EP US)

G01M 13/045 (2013.01 - EP US)

Citation (search report)

See references of WO 03095956A2

Cited by

CN116428130A

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PT RO SE SI SK TR

DOCDB simple family (publication)

US 2005155429 A1 20050721; US 7231303 B2 20070612; AU 2003257412 A1 20031111; AU 2003257412 A8 20031111; EP 1502086 A2 20050202; WO 03095956 A2 20031120; WO 03095956 A3 20041209

DOCDB simple family (application)

US 51103205 A 20050203; AU 2003257412 A 20030414; EP 0303731 W 20030414; EP 03749854 A 20030414