Title (en)

APPARATUS FOR EARLY FAULT RECOGNITION ON MACHINES AND/OR COMPONENTS THEREOF

Title (de)

VORRICHTUNG ZUR STÖRUNGSFRÜHERKENNUNG AN MASCHINEN UND/ODER DEREN BAUTEILEN

Title (fr)

DISPOSITIF DE DÉPISTAGE PRÉCOCE DE DÉFAILLANCES SUR DES MACHINES ET/OU SUR LEURS ÉLÉMENTS

Publication

EP 2100121 A1 20090916 (DE)

Application

EP 07856949 A 20071219

Priority

• EP 2007011226 W 20071219
• DE 102006060382 A 20061220

Abstract (en)

[origin: WO2008074501A1] In an apparatus for early recognition of faults in technical or physical parameters of machines or appliances and/or components thereof, the design is such that the apparatus used for early recognition of faults is at least one static or, in particular, dynamic seal (1) provided for the machine or the component thereof, that the seal (1) is provided with a measuring device (4) for detecting the technical or physical state of the seal (1) itself or a change of state thereof, that the measuring device (4) has at least one sensor element (2) for detecting the change of state of the seal (1) which is brought about by wear or a fault on the seal (1) itself, on the component (5) which is to be sealed by the seal (1) and/or on the overall machine, and that the sensor element (2) detects the resilience of the seal or the resultant deformation thereof and/or the expansion or compression of the seal (1) and/or a pressure-induced alteration in the seal (1) and/or oscillations or vibrations in the machine or in a component (5, 6) thereof.

IPC 8 full level

G01M 13/00 (2006.01); **G01M 99/00** (2011.01)

CPC (source: EP)

F16J 15/3296 (2013.01); **G01M 13/005** (2013.01)

Citation (search report)

See references of WO 2008074501A1

Citation (examination)

US 2006220498 A1 20061005 - KREMER FRIEDRICH [DE]

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