

Title (en)

MEASURING DEVICE FOR DETECTING STRESSES OF A BEARING ARRANGEMENT

Title (de)

MESSVORRICHTUNG ZUM ERFASSEN VON BELASTUNGEN EINER LAGERUNG

Title (fr)

DISPOSITIF DE MESURE SERVANT A DETECTER LES CHARGES S'EXERÇANT SUR UN ROULEMENT

Publication

**EP 1787099 A1 20070523 (DE)**

Application

**EP 05774373 A 20050812**

Priority

- DE 2005001425 W 20050812
- DE 102004043754 A 20040910

Abstract (en)

[origin: WO2006026948A1] The invention relates to a measuring device (1, 16) for detecting stresses of a bearing arrangement (5, 17), said stresses being measurable based on elastic changes in shape. The inventive measuring device (1, 16) comprises at least one light source (2, 20) which is directed onto at least one light passage (4, 19) and at least one light sensor (3, 21). The dimensions of at least one portion of the light (23) that penetrates the light passage (4, 19) and impinges the light sensor (3, 21) can be modified by elastically changing the shape of the light passage (4, 19).

IPC 8 full level

**G01L 5/00** (2006.01); **G01B 11/16** (2006.01); **G01D 5/34** (2006.01); **G01M 13/04** (2006.01)

CPC (source: EP US)

**F16C 19/522** (2013.01 - EP US); **F16C 35/042** (2013.01 - EP US); **G01B 11/16** (2013.01 - EP US); **G01L 5/0009** (2013.01 - EP US)

Citation (search report)

See references of WO 2006026948A1

Citation (examination)

- WO 2005090904 A1 20050929 - FAG KUGELFISCHER AG [DE], et al
- WO 2006026949 A1 20060316 - FAG KUGELFISCHER AG & CO OHG [DE], et al
- FR 2604783 A1 19880408 - CREATI 84 [FR], et al

Designated contracting state (EPC)

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

DOCDB simple family (publication)

**WO 2006026948 A1 20060316**; DE 102004043754 B3 20060420; EP 1787099 A1 20070523; JP 2008512690 A 20080424; US 2008092664 A1 20080424; US 7526967 B2 20090505

DOCDB simple family (application)

**DE 2005001425 W 20050812**; DE 102004043754 A 20040910; EP 05774373 A 20050812; JP 2007532755 A 20050812; US 57499205 A 20050812