

Title (en)
DIAGNOSTIC METHOD AND DIAGNOSTIC DEVICE FOR A SLIDE BEARING

Title (de)
DIAGNOSEVERFAHREN UND DIAGNOSEVORRICHTUNG FÜR EIN GLEITLAGER

Title (fr)
PROCÉDÉ DE DIAGNOSTIC ET DISPOSITIF DE DIAGNOSTIC POUR UN PALIER LISSE

Publication
EP 2543977 B8 20190626 (EN)

Application
EP 11750503 A 20110221

Priority
• JP 2010046767 A 20100303
• JP 2011053734 W 20110221

Abstract (en)
[origin: EP2543977A1] A sign of a minor rubbing abnormality of a slide bearing in a diesel engine is accurately detected. In order to realize the accurate detection, the following is performed: detecting waveform data which represents an acceleration of a vibration which occurs when a slide bearing is in operation; transforming acceleration waveform data into an acceleration spectrum of a frequency domain by applying a Fourier transform to the acceleration waveform data; quantifying a plurality of peak information which occurs at a rotational frequency interval of a shaft to be measured in the acceleration spectrum by performing a predetermined signal process combined with rotational frequency information of the shaft; obtaining a characteristic value; monitoring whether the obtained characteristic value has exceeded a predetermined threshold value; and when the characteristic value has exceeded the threshold value, determining that an abnormality has occurred in the slide bearing.

IPC 8 full level
G01M 13/045 (2019.01); **G01H 1/14** (2006.01)

CPC (source: EP KR US)
G01H 1/00 (2013.01 - KR); **G01H 1/14** (2013.01 - EP US); **G01H 5/00** (2013.01 - KR); **G01H 17/00** (2013.01 - KR);
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Cited by
US11047768B2; GB2602038A; EP4242156A1; EP4043856A4

Designated contracting state (EPC)
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CN 102834701 B 20150408; DK 2543977 T3 20190611; HK 1179338 A1 20130927; JP 2016048267 A 20160407; JP 5968217 B2 20160810;
JP 6111347 B2 20170405; JP WO2011108391 A1 20130624; KR 101497781 B1 20150302; KR 20120129938 A 20121128;
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