Title (en)

Method for forecasting damage to components of a motor vehicle

Title (de)

Verfahren zur Schädigungsvorhersage von Bauteilen eines Kraftfahrzeuges

Title (fr)

Procédé de prévention contre les dommages de composants d'un véhicule automobile

Publication

EP 2056179 A3 20100526 (DE)

Application

EP 08166916 A 20081017

Priority

AT 17712007 A 20071102

Abstract (en)

[origin: EP2056179A2] The method involves providing a damage module (7) for an engine component, and detecting contamination of the component. Wear and damage of the component is detected along with damage length and/or over damage duration. Reference length and/or reference duration is determined based on detected damage length and/or damage duration of the component. The damage length and/or the damage duration are compared with the reference length and/or the reference duration. An acceleration parameter is determined from the damage and reference lengths and/or damage and reference durations.

IPC 8 full level

G05B 23/02 (2006.01); **G01M 99/00** (2011.01); **G07C 5/00** (2006.01); **G07C 5/08** (2006.01)

CPC (source: EP US)

G07C 5/006 (2013.01 - EP US); **G07C 5/0808** (2013.01 - EP US)

Citation (search report)

- [I] WO 2006116758 A2 20061102 - CATERPILLAR INC [US], et al
- [I] US 2006106549 A1 20060518 - OLSSON KARL ERIK [SE]
- [I] DE 10211130 A1 20030925 - ZAHNRADFABRIK FRIEDRICHSHAFEN [DE]
- [A] JÖRG WALLASCHEK AND SEBASTIAN WEDMAN: "Condition Monitoring in mechatronischen Systemen am Beispiel des Lebensdauerbeobachters", VDI-BERICHTE, vol. 1606, 2001, Düsseldorf, pages 243 - 258, XP002577836, ISBN: 3-18-091606-0, Retrieved from the Internet <URL:http://docs.google.com/viewer?a=v&q=cache:2VfzQ63o1mkJ:wwwhni.uni-paderborn.de/en/publications/%3Ftx_hnippview_pi1%255Bpublikation%255D%3D1287%26tx_hnippview_pi1%255Bfelder%255D%255Blade%255D%3D243+condition+monitoring+mechatronischen+lebensdauerbeobachter> [retrieved on 20100415]

Cited by

GB2491045A; GB2491045B; EP3361450A1; US10417614B2; WO2016005086A1; WO2018162198A1; WO2017192998A1; US10318903B2; US10318904B2; US10424132B2; US10692310B2; WO2020074115A1; WO2012079716A1; DE102010054531A1; US10466138B2; US10527520B2

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MT NL NO PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA MK RS

DOCDB simple family (publication)

EP 2056179 A2 20090506; **EP 2056179 A3 20100526**; AT 504028 A2 20080215; AT 504028 A3 20081015; AT 504028 B1 20090315; CN 101424590 A 20090506; CN 101424590 B 20130814; JP 2009115796 A 20090528; US 2009118897 A1 20090507

DOCDB simple family (application)

EP 08166916 A 20081017; AT 17712007 A 20071102; CN 200810175714 A 20081031; JP 2008283496 A 20081104; US 28960308 A 20081030