

Title (en)

PROTECTION METHOD BY PUNCTUALLY ADDING AN ADDITIVE AND THE THEREBY PROTECTED MECHANICAL MACHINE

Title (de)

SCHUTZVERFAHREN DURCH PÜNKTLICHES HINZUFÜGEN EINES ADDITIVS UND DADURCH GESCHÜTZTE MECHANISCHE MASCHINE

Title (fr)

PROCEDE DE PROTECTION PAR AJOUT PONCTUEL D'UN ADDITIF, ET MACHINE MECANIQUE AINSI PROTEGEE

Publication

EP 1945921 A2 20080723 (FR)

Application

EP 06794371 A 20060831

Priority

- FR 2006002009 W 20060831
- FR 0508971 A 20050901

Abstract (en)

[origin: FR2890106A1] The procedure, designed to protect a mechanical machine such as a motor vehicle gearbox operating in critical conditions, consists of injecting an additive e.g. a lubricant when a critical threshold is passed. The additive is injected by a gas generator system (G1, G2, G3) triggered, for example, when threshold levels of temperature, speed of rotation, pressure, torque, vibration, time or distance covered are exceeded. The generator itself can be pyrotechnic, and actuated by an igniter.

IPC 8 full level

F01M 9/02 (2006.01); **F16H 57/04** (2010.01); **F16N 11/10** (2006.01)

CPC (source: EP US)

F01M 9/02 (2013.01 - EP US); **F16H 57/0434** (2013.01 - EP US); **F16H 57/0458** (2013.01 - EP US); **F16H 57/0463** (2013.01 - EP US); **F16N 11/10** (2013.01 - EP US)

Citation (search report)

See references of WO 2007026075A2

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)

FR 2890106 A1 20070302; **FR 2890106 B1 20071012**; EP 1945921 A2 20080723; JP 2009507189 A 20090219; US 2009218171 A1 20090903; WO 2007026075 A2 20070308; WO 2007026075 A3 20070518

DOCDB simple family (application)

FR 0508971 A 20050901; EP 06794371 A 20060831; FR 2006002009 W 20060831; JP 2008528552 A 20060831; US 6532406 A 20060831