Title (en)

METHOD OF IMPROVING AN ENGINE USING A LUBRICATING COMPOSITION COMPRISING A COLLOIDAL DISPERSION OF A RARE EARTH TO CATALYSE THE COMBUSTION OF SOOT

Title (de)

VERFAHREN ZUR VERBESSERUNG EINES MOTORS UNTER VERWENDUNG EINER KOLLODIALEN DISPERSION, WELCHE EINE SELTENE ERDE ENTHÄLT, IN EINER SCHMIERMITTELZUSAMMENSETZUNG ZUM KATALYSIEREN DER VERBRENNUNG VON RUSS

Title (fr)

PROCEDE DE FONCTIONNEMENT D UN MOTEUR UTILISANT UNE COMPOSITION LUBRIFIANTE COMPRENANT UNE DISPERSION COLLOÏDALE D ' UNE TERRE RARE POUR CATALYSER LA COMBUSTION DES SUIES

Publication

EP 1989407 B1 20100331 (FR)

Application

EP 07703988 A 20070118

Priority

- EP 2007050493 W 20070118
- FR 0600838 A 20060130

Abstract (en)

[origin: WO2007085561A1] The invention relates to a method of improving an engine equipped with an exhaust line fitted with a particulate filter, in which the particulates contained in the exhaust gas are trapped on said filter, and the trapped particulates are periodically burnt off, which method is characterized in that, for the purpose of catalysing the combustion of said particles, a composition resulting from mixing a lubricating oil with a colloidal dispersion is used as engine-lubricating composition, which dispersion comprises particles of a compound of at least one rare earth and an amphiphilic agent.

IPC 8 full level

F01N 3/023 (2006.01); **B01J 13/00** (2006.01); **C10M 125/04** (2006.01); **C10M 129/40** (2006.01)

CPC (source: EP US)

C10M 141/02 (2013.01 - EP US); **C10M 141/08** (2013.01 - EP US); **C10M 141/10** (2013.01 - EP US); **F01N 3/023** (2013.01 - EP US); C10M 2201/041 (2013.01 - EP US); C10M 2201/062 (2013.01 - EP US); C10M 2203/02 (2013.01 - EP US); C10M 2203/022 (2013.01 - EP US); C10M 2203/06 (2013.01 - EP US); C10M 2203/102 (2013.01 - EP US); C10M 2203/104 (2013.01 - EP US); C10M 2207/126 (2013.01 - EP US); C10M 2219/044 (2013.01 - EP US); C10M 2223/04 (2013.01 - EP US); C10M 2223/06 (2013.01 - EP US); C10M 2225/00 (2013.01 - EP US); C10N 2010/06 (2013.01 - EP US); C10N 2010/14 (2013.01 - EP US); C10N 2030/38 (2020.05 - EP US); C10N 2030/50 (2020.05 - EP US); C10N 2050/01 (2020.05 - EP US)

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 2007085561 A1 20070802; AT 462875 T 20100415; CN 101375027 A 20090225; CN 101375027 B 20110907; DE 602007005615 D1 20100512; EP 1989407 A1 20081112; EP 1989407 B1 20100331; ES 2343759 T3 20100809; FR 2896824 A1 20070803; FR 2896824 B1 20080307; US 2009241523 A1 20091001

DOCDB simple family (application)

EP 2007050493 W 20070118; AT 07703988 T 20070118; CN 200780003922 A 20070118; DE 602007005615 T 20070118; EP 07703988 A 20070118; ES 07703988 T 20070118; FR 0600838 A 20060130; US 16258507 A 20070118