Title (en)

Apparatus for monitoring the operations of an engine, in particular the engine of a vehicle

Title (de)

Vorrichtung zur Überwachung des Betriebs eines Dieselmotors, insbesondere eines Kraftfahrzeuges

Title (fr)

Dispositif de contrôle du fonctionnement d'un moteur diesel notamment de véhicule automobile

Publication

EP 0838583 B1 20000322 (FR)

Application

EP 97402543 A 19971027

Priority

FR 9613138 A 19961028

Abstract (en)

[origin: EP0838583A1] The apparatus comprises a controller to monitor vibration of the engine during certain phases of it cycle. A vibration detector (2) delivers a signal to a signal processing circuit (5). A time controller (6) establishes time windows for passage of the vibration signal corresponding to the operating cycle of the engine. A set of characteristics are established for the engine by dividing the amplitude of the vibrations by a reference value delivered by a computer (10). The value is the smallest moving average of vibrations measured from each cylinder. When a measured signal moves too far from the reference a look up table is consulted to determine how many revolutions of the engine are permitted, and the engine cut if this number is exceeded.

IPC 1-7

F02D 41/22; F02D 41/38

IPC 8 full level

F02D 41/14 (2006.01); **F02D 41/22** (2006.01); F02B 3/06 (2006.01)

CPC (source: EP)

F02D 41/1497 (2013.01); **F02D 41/22** (2013.01); **F02D 41/221** (2013.01); F02B 3/06 (2013.01)

Designated contracting state (EPC)

CH DE ES GB IT LI PT SE

DOCDB simple family (publication)

EP 0838583 A1 19980429; **EP 0838583 B1 20000322**; DE 69701500 D1 20000427; DE 69701500 T2 20001221; ES 2143289 T3 20000501; FR 2755185 A1 19980430; FR 2755185 B1 19990115; PT 838583 E 20000831

DOCDB simple family (application)

EP 97402543 A 19971027; DE 69701500 T 19971027; ES 97402543 T 19971027; FR 9613138 A 19961028; PT 97402543 T 19971027