

## Title (en)

Alarm and/or control device for diesel engines, especially for automotive vehicles

## Title (de)

Alarm- und/oder Steuervorrichtung für Dieselmotoren, insbesondere für Kraftfahrzeuge

## Title (fr)

Dispositif d'alarme et/ou de commande pour moteur diesel, notamment pour véhicule automobile

## Publication

**EP 1146221 A1 20011017 (FR)**

## Application

**EP 01400675 A 20010314**

## Priority

FR 0004761 A 20000413

## Abstract (en)

The alarm/controller detects misfiring of the engines fuel pump (10). It includes a fuel level sensing unit (34) to which detects when the fuel has fallen below a second level less than a first minimum level from which an alarm (32) is triggered to warn that filling is required. The sensing unit computes the distance traveled from detection of the first minimum fuel level another unit (36) compares this distance with a set limit (Dr). The alarm/controller includes a unit (40), triggered by the sensor, which reduces the engines performance and a unit (52) which slows down the engine operating regime when the sensor indicates falling fuel level, by interrupting the fuel supply. The unit (36) determines fuel consumption from detection of the first minimum level and a unit (42) compares this fuel consumption with a set limit (Vf). The engine includes a fuel filling regulator (20) and the sensor includes a unit (39) to monitor an error signal of the regulator by comparing it with a set limit.

## Abstract (fr)

L'invention est relative à un dispositif d'alerte de la proximité d'un incident dans un véhicule à moteur Diesel. L'incident est le risque de désamorçage d'au moins une pompe d'alimentation en carburant. Le dispositif comprend un moyen (34 ; 36 ; 48) pour détecter que le niveau de carburant est descendu au-dessous d'un second niveau, sensiblement inférieur au premier niveau minimum à partir duquel est déclenchée une alarme (32) conseillant le remplissage de ce réservoir. <IMAGE>

## IPC 1-7

**F02M 37/00**; **F02D 17/04**; **B60K 15/06**

## IPC 8 full level

**F02D 17/04** (2006.01); **F02D 33/00** (2006.01); **F02M 37/00** (2006.01)

## CPC (source: EP)

**F02D 17/04** (2013.01); **F02D 33/006** (2013.01); **F02M 37/0047** (2013.01)

## Citation (search report)

- [X] US 4124013 A 19781107 - RIVALTO MICHAEL A
- [X] GB 2140091 A 19841121 - PETTER REFRIGERATION LTD
- [X] US 4960088 A 19901002 - HAVEMANN ROBERT K [US], et al
- [X] US 5095880 A 19920317 - RICKS ROBERT C [US]

## Cited by

USRE42771E; EP2149693A1

## Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

## DOCDB simple family (publication)

**EP 1146221 A1 20011017**; **EP 1146221 B1 20050831**; AT E303509 T1 20050915; DE 60112984 D1 20051006; DE 60112984 T2 20060622; ES 2248249 T3 20060316; FR 2807790 A1 20011019; FR 2807790 B1 20021011

## DOCDB simple family (application)

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