

Title (en)
Diesel fuel purifier

Title (de)
Dieselkraftstoffreinigungsgesät

Title (fr)
Purificateur de carburant Diesel

Publication
EP 1413741 A3 20060118 (EN)

Application
EP 03256610 A 20031021

Priority
AU 2002301547 A 20021021

Abstract (en)
[origin: EP1413741A2] The present invention relates to diesel purifier that produces a fuel of high purity that meets the full ignition requirements at the combustion chamber of the engine. The purifier is shown in Fig 1 of the attached drawings. The above purification process depends on causing of some differences in the density of contaminants which contributes towards settling of heavy impurities and the light contaminants are separated by wire filter assembly.
[origin: EP1413741A2] A purification chamber (1) encapsulated by an external body (2) has a barrier with conical and cylindrical portions surrounded by a wire filter (7). Fuel flows from an inlet (5) through a pipe (6) to the conical portion, and to an outlet (8) through a final filter (22) secured to the outlet. The upper portion of the diesel fuel purifier has a relief valve (9). The lower portion of the diesel fuel purifier has a heating element (10) and a water cock (11) connected to sound and light indicator (12) at cabin dash board, and the bottom has a drain valve (13). An independent claim is also included for a process of purifying diesel fuel using purifier.

IPC 8 full level
B01D 29/50 (2006.01); **F02M 37/28** (2019.01); **F02M 37/30** (2019.01); **F02M 37/32** (2019.01)

CPC (source: EP KR US)
F02M 37/22 (2013.01 - KR); **F02M 37/28** (2018.12 - EP US); **F02M 37/30** (2018.12 - EP US); **F02M 37/32** (2018.12 - EP US)

Citation (search report)
• [XY] EP 0688594 A2 19951227 - STANADYNE AUTOMOTIVE CORP [US]
• [Y] EP 0553637 A1 19930804 - SCHWAEBISCHE HUETTENWERKE GMBH [DE]
• [A] US 4502956 A 19850305 - WILSON MICHAEL E [US], et al
• [A] EP 0168160 A1 19860115 - DAVCO MFG [US]
• [A] EP 0702144 A2 19960320 - BOSCH GMBH ROBERT [DE]
• [A] PATENT ABSTRACTS OF JAPAN vol. 016, no. 545 (M - 1337) 16 November 1992 (1992-11-16)

Cited by
EP1801408A3

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PT RO SE SI SK TR

DOCDB simple family (publication)
EP 1413741 A2 20040428; EP 1413741 A3 20060118; AP 2003002884 A0 20031231; AU 2002301547 A1 20040506;
AU 2002301547 B2 20100401; CA 2445613 A1 20040421; CA 2445613 C 20070313; CN 1526939 A 20040908; KR 100804112 B1 20080218;
KR 20040034475 A 20040428; MA 26168 A1 20040701; OA 12559 A 20060607; RU 2003129951 A 20050410; RU 2392031 C2 20100620;
SG 115574 A1 20051028; TN SN03087 A1 20050408; TW 200406539 A 20040501

DOCDB simple family (application)
EP 03256610 A 20031021; AP 2003002884 A 20031010; AU 2002301547 A 20021021; CA 2445613 A 20031020;
CN 200310102495 A 20031021; KR 20030071800 A 20031015; MA 27364 A 20031016; OA 1200300269 A 20031010;
RU 2003129951 A 20031008; SG 200306238 A 20031017; TN SN03087 A 20031007; TW 92129358 A 20031021