

Title (en)

Method of on-board fractionation of engine fuel

Title (de)

Verfahren zur On-Board-Fraktionierung von motorischem Kraftstoff

Title (fr)

Procédé pour le fractionnement embarqué de carburant pour moteur

Publication

**EP 0869273 A3 19990616 (DE)**

Application

**EP 98102870 A 19980219**

Priority

DE 19713841 A 19970404

Abstract (en)

[origin: EP0869273A2] The method is for separation of the low-boiling fuel portion on board a motor vehicle. A gas feed pump is used to pump out a fuel tank and generate a underpressure, so that the components of the fuel fraction to be separated are evaporated. This is followed by condensation of the fraction component on the pressure side of the pump. The underpressure is lower than 1 bar, and the pressure on the pressure side during condensation is higher than 1 bar. The pump is a diaphragm pump, and the fuel is for a diesel- or kerosine-powered engine. The fractioned components are used directly in the engine combustion, or are stored in a reservoir chamber.

IPC 1-7

**F02M 1/16**; **F02M 33/00**

IPC 8 full level

**F02M 1/16** (2006.01); **F02M 33/00** (2006.01)

CPC (source: EP US)

**F02M 1/165** (2013.01 - EP US); **F02M 33/00** (2013.01 - EP US)

Citation (search report)

- [XY] US 3807377 A 19740430 - HIRSCHLER D, et al
- [Y] US 3908371 A 19750930 - NAGAI TADASHI, et al
- [A] GB 2295561 A 19960605 - LUCAS IND PLC [GB]
- [A] US 3783841 A 19740108 - HIRSCHLER D, et al
- [A] EP 0441401 A1 19910814 - TOYOTA MOTOR CO LTD [JP]

Cited by

FR2799201A1

Designated contracting state (EPC)

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

DOCDB simple family (publication)

**EP 0869273 A2 19981007**; **EP 0869273 A3 19990616**; DE 19713841 C1 19981112; US 5996562 A 19991207

DOCDB simple family (application)

**EP 98102870 A 19980219**; DE 19713841 A 19970404; US 5530998 A 19980406