

Title (en)

LIQUID FUELS AS DIESEL ENGINE FUEL MIXTURE OR LIGHT HEATING OIL

Title (de)

FLÜSSIGE BRENNSTOFFE ALS DIESELKRAFTSTOFFGEMISCH ODER LEICHTES HEIZÖL

Title (fr)

CARBURANTS LIQUIDES PRÉSENTANT LA FORME D'UN MÉLANGE DE CARBURANTS DIESEL OU DE FIOUL DE CHAUFFAGE LÉGER

Publication

EP 2106434 A1 20091007 (DE)

Application

EP 07856728 A 20071214

Priority

- EP 2007010987 W 20071214
- DE 102006059788 A 20061215
- DE 102007003344 A 20070117

Abstract (en)

[origin: WO2008071434A1] The invention relates to liquid fuels as diesel engine fuel mixture or light heating oil, wherein the diesel engine fuel mixture, as main component, contains fossil diesel engine fuel and/or biodiesel and/or vegetable oil and additives which are conventional per se. Starting from the disadvantages of the known prior art, the object is to provide an alternative mixture component for diesel engine fuels or light heating oil which is suitable not only for fossil diesel engine fuels but also biodiesel or vegetable oil, which may be produced inexpensively and which meets the requirements as a pure bio propellant. For this, as solution, it is proposed that diesel engine fuel mixture or light heating oil contains, as mixture component, diethyl oxalate. As heating oil use can be made of a mixture which originates from the refining of crude oil and is admixed with up to 25% by volume diethyl oxalate. In addition, as heating oil, use can be made of a mixture which, as main component, consists of vegetable oils and up to 50% by volume diethyl oxalate. In the case of a diesel engine fuel mixture having fossil diesel engine fuel as main component which contains, as mixture component, diethyl oxalate, the mixture component can be added in use amounts up to 25% by volume. In the case of biodiesel as main component, the fraction of the mixture component, however, should not be above 50% by volume. In addition, diethyl oxalate can be added to unmodified vegetable oils in any ratio. As a result the viscosity of the vegetable oil or engine fuel mixture is significantly decreased.

IPC 8 full level

C10L 1/19 (2006.01); **C10L 1/02** (2006.01); **C10L 10/02** (2006.01)

CPC (source: EP US)

C10L 1/026 (2013.01 - EP US); **C10L 1/1905** (2013.01 - EP US); **C10L 10/02** (2013.01 - EP US); **Y02E 50/10** (2013.01 - EP US)

Citation (search report)

See references of WO 2008071434A1

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 MT NL PL PT RO SE SI SK TR

DOCDB simple family (publication)

WO 2008071434 A1 20080619; DE 102007003344 B3 20080710; EP 2106434 A1 20091007; US 2010083567 A1 20100408

DOCDB simple family (application)

EP 2007010987 W 20071214; DE 102007003344 A 20070117; EP 07856728 A 20071214; US 51919407 A 20071214