

Title (en)

METHOD AND DEVICE FOR LUBRICATING AND SIMULTANEOUSLY SUPPLYING FUEL IN COMBUSTION ENGINE

Title (de)

VERFAHREN UND VORRICHTUNG ZUR SCHMIERUNG UND GLEICHZEITIGEN KRAFTSTOFFVERSORGUNG EINES VERBRENNUNGSMOTORS

Title (fr)

PROCEDE ET DISPOSITIF PERMETTANT DE LUBRIFIER ET SIMULTANEMENT D'ALIMENTER EN CARBURANT UN MOTEUR A COMBUSTION INTERNE

Publication

EP 1027531 A1 20000816 (DE)

Application

EP 98956878 A 19981027

Priority

- DE 19747853 A 19971030
- EP 9806806 W 19981027

Abstract (en)

[origin: DE19747853A1] The invention relates to a method and a device for lubricating and simultaneously supplying fuel in a combustion engine, whereby a vegetable oil containing additives is continuously supplied as a lubricant during operation and the vegetable oil-lubricant used is fed together with a mixture of fresh vegetable oil and rape oil or rape oil-methyl ester into the engine and burned as a motor fuel.

IPC 1-7

F01M 9/04

IPC 8 full level

F01M 9/04 (2006.01); **F01M 11/04** (2006.01)

CPC (source: EP US)

F01M 9/04 (2013.01 - EP US); **F01M 11/0458** (2013.01 - EP US); **F01M 2011/0475** (2013.01 - EP US)

Designated contracting state (EPC)

AT CH DE ES FI FR GB IT LI NL SE

DOCDB simple family (publication)

US 6382170 B1 20020507; AT E231949 T1 20030215; AU 1336399 A 19990524; DE 19747853 A1 19990506; DE 59807089 D1 20030306; EP 1027531 A1 20000816; EP 1027531 B1 20030129; ES 2191978 T3 20030916; WO 9923365 A1 19990514

DOCDB simple family (application)

US 53039700 A 20000824; AT 98956878 T 19981027; AU 1336399 A 19981027; DE 19747853 A 19971030; DE 59807089 T 19981027; EP 9806806 W 19981027; EP 98956878 A 19981027; ES 98956878 T 19981027