

Title (en)
METHOD FOR CONTINUOUSLY PREPARING A STABLE WATER-FUEL EMULSION AND DEVICE THEREFOR

Title (de)
VERFAHREN ZUR KONTINU-HERSTELLUNG EINER STABILEN WASER-BRENNSTOFFEMULSION UND VORRICHTUNG ZUR DURCHFÜHRUNG DIESES VERFAHREN

Title (fr)
PROCEDE DE PREPARATION EN CONTINU D'UNE EMULSION STABLE EAU-COMBUSTIBLE ET SON DISPOSITIF DE MISE EN OEUVRE

Publication
EP 1240278 A1 20020918 (FR)

Application
EP 00979726 A 20001113

Priority
• FR 0003162 W 20001113
• FR 9914269 A 19991115

Abstract (en)
[origin: WO0136569A1] The invention concerns a method for continuously preparing a water-in-oil emulsified fuel to mix additives, water and a hydrocarbon phase and optionally in recycling the resulting mixture. The method comprises two steps: the first consists in providing at least a phase A consisting of the additives required for stabilising the emulsion and the water in the hydrocarbon phase for a homogeneous spatial distribution of water droplets less than 200 μm in size; and the second phase consists in reducing the size of the droplets by dispersion using an emulsifying device having a peripheral moving speed of at least 10 m/s, preferably higher than 25 m/s and enabling a retention time in the emulsifying device between 1 second and 80 seconds, preferably between 2 and 30 seconds.

IPC 1-7
C10L 1/32; B01F 13/10; B01F 3/08

IPC 8 full level
B01F 3/08 (2006.01); **C10L 1/32** (2006.01)

CPC (source: EP)
B01F 23/49 (2022.01); **C10L 1/328** (2013.01)

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)
WO 0136569 A1 20010525; AU 1712201 A 20010530; AU 781512 B2 20050526; CZ 20021694 A3 20021016; EP 1240278 A1 20020918; FR 2801057 A1 20010518; FR 2801057 B1 20030829; HU P0204165 A2 20030528; MX PA02004745 A 20031014; MY 129893 A 20070531; NZ 518850 A 20031031; PL 356207 A1 20040614; ZA 200203512 B 20021219

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FR 0003162 W 20001113; AU 1712201 A 20001113; CZ 20021694 A 20001113; EP 00979726 A 20001113; FR 9914269 A 19991115; HU P0204165 A 20001113; MX PA02004745 A 20001113; MY PI20005321 A 20001113; NZ 51885000 A 20001113; PL 35620700 A 20001113; ZA 200203512 A 20020503