

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

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Application

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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.

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