

Title (en)

METHOD AND DEVICE FOR PRODUCING A FUEL MIXTURE FOR AN INTERNAL COMBUSTION ENGINE

Title (de)

VERFAHREN UND VORRICHTUNG ZUM ERZEUGEN EINES KRAFTSTOFFGEMISCHS FÜR EINE VERBRENNUNGSKRAFTMASCHINE

Title (fr)

PROCEDE ET DISPOSITIF POUR PRODUIRE UN MELANGE DE CARBURANT DESTINE A UN MOTEUR A COMBUSTION INTERNE

Publication

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Application

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Abstract (en)

[origin: WO0045042A1] The invention relates to a method for producing a fuel mixture consisting of fuel, water and emulsifier for an internal combustion engine. According to the method, a mixture pump (14) located in a fuel circuit (68) ensures that a volume of the fuel mixture used by the internal combustion engine (24) is constantly replaced with an identical volume of fuel, water and emulsifier. The quantity of water and emulsifier added to the mixture and consequently, the mix ratio of the components in the fuel mixture, is measured according to the volume flow of fuel that is drawn from the fuel tank (12) by the mixture pump, as measured by a measuring device (38). The method therefore guarantees faultless operation and does not necessitate any intervention in existing control systems for the internal combustion engine. A device for carrying out the method can be constructed simply by fitting a supplementary equipment set (30) in an existing fuel circuit.

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