

Title (en)

Device and method for preparing emulsions, in particular for preparing water-fuel emulsions

Title (de)

Vorrichtung und Verfahren zur Emulgation, insbesondere zur Emulgation von Wasser in einem Brennstoff

Title (fr)

Dispositif et procédé d'émulsification, notemment d'émulsification eau-carburant

Publication

EP 1241407 A2 20020918 (DE)

Application

EP 02005848 A 20020314

Priority

- DE 10112627 A 20010314
- DE 10133775 A 20010716
- US 12194202 A 20020412

Abstract (en)

The device for the emulsifying especially of water in fuel has a rotor (2) double mounted in a stator. The width of the grinding gap formed between the rotor and stator is smaller than 30 microns. Self-lubricating ball bearings (15) are provided for the support of the rotor or shaft (1) carrying it. The device has at least one mechanical seal constructed in such a way that a spring pack provided in the rotating part of the mechanical seal does not lie in the stream of emulsified or to be emulsified fluids. An Independent claim is included for a procedure for the emulsifying of especially water in fuel using a rotor to swirl the fluid.

Abstract (de)

Bei einer Vorrichtung zur Emulgation, insbesondere zur Emulgation vo Wasser in einem Brennstoff, wird in einem Stator (3) ein drehbar doppelt gelagerter Rotor (2) angebracht. Bei dem entsprechenden Verfahren zur Emulgation wird die zu emulgierende Flüssigkeit von dem im Stator rotierenden Rotor verwirbelt, wobei der Rotor und der Stator einen Mahlspace bilden, der kleiner als 30 µm ist. <IMAGE>

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CPC (source: EP US)

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Citation (applicant)

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