

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 A3 20030226 (DE)**

Application

**EP 02005848 A 20020314**

Priority

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

Abstract (en)

[origin: EP1241407A2] 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.

IPC 1-7

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IPC 8 full level

**F23K 5/12** (2006.01)

CPC (source: EP US)

**F23K 5/12** (2013.01 - EP US)

Citation (search report)

- [XY] DE 8912938 U1 19900208
- [XDY] DE 4142891 A1 19930701 - STACHE HEINO [DE]
- [XY] DE 1457182 A1 19681212 - WACKER CHEMIE GMBH [DE]
- [A] US 3395805 A 19680806 - HOLDEN CLAYTON JAMES

Cited by

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Designated contracting state (EPC)

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**EP 1241407 A2 20020918**; **EP 1241407 A3 20030226**; US 2003193834 A1 20031016

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