

Title (en)  
Plant for the production of an emulsion of water in hydrocarbons

Title (de)  
Anlage zur Herstellung einer Emulsion von Wasser in Kohlenwasserstoffen

Title (fr)  
Installation pour la production d'une emulsion de l'eau dans des hydrocarbures

Publication  
**EP 2340887 A1 20110706 (EN)**

Application  
**EP 09425547 A 20091230**

Priority  
EP 09425547 A 20091230

Abstract (en)  
Plant for the production of an emulsion of water in hydrocarbons, comprising: pump means (13;22) for the drawing and mixing in a first tank (16) of dosed amounts of an hydrocarbon, or of a mixture of hydrocarbons contained in a second tank (12), with an emulsifier contained in a third tank (18); pump means (22) for drawing and introducing dosed amounts of water, drawn from a fourth tank (6) in said mixture of hydrocarbons and emulsifier contained in said first tank (16); pump means (22) for pressure circulating many times said mixture of water, hydrocarbons and emulsifier from said first tank (16) through an emulsifier device (E) and from this again in said first tank (16) until obtaining a stable emulsion of water in hydrocarbons, and for transferring said emulsion from said first tank (16) until obtaining a stable emulsion of water in hydrocarbons, and for transferring said emulsion from said first tank (16) in a stocking tank (37) from which said emulsion may be drawn for the delivery to the users.

IPC 8 full level  
**B01F 23/70** (2022.01); **F23K 5/12** (2006.01)

CPC (source: EP)  
**B01F 23/4105** (2022.01); **B01F 23/411** (2022.01); **B01F 23/70** (2022.01); **B01F 23/705** (2022.01); **B01F 25/45** (2022.01); **B01F 25/45211** (2022.01); **B01F 25/50** (2022.01); **F23K 5/12** (2013.01)

Citation (applicant)  
WO 2004099350 A1 20041118 - LUBRIZOL CORP [US], et al

Citation (search report)

- [XAI] WO 2005037961 A2 20050428 - CLEAN FUELS TECHNOLOGY INC [US], et al
- [IA] WO 2004035716 A1 20040429 - PARK GIL WON [KR], et al
- [XA] FR 2786780 A1 20000609 - ELF ANTAR FRANCE [FR]
- [XA] US 4696638 A 19870929 - DENHERDER MARVIN J [US]
- [A] EP 1095696 A2 20010502 - MARELLI ERNESTO [IT]
- [A] US 6085644 A 20000711 - KLINKSIEK BERND [DE]

Cited by  
EP2832433A1; WO2015015465A1

Designated contracting state (EPC)  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK SM TR

Designated extension state (EPC)  
AL BA RS

DOCDB simple family (publication)  
**EP 2340887 A1 20110706**

DOCDB simple family (application)  
**EP 09425547 A 20091230**