Title (en)

PROCESS FOR MANUFACTURING STABLE, LOW-VISCOSITY OW ANTI-RUST EMULSIONS.

Title (de)

VERFAHREN ZUR HERSTELLUNG STABILER, NIEDRIG-VISKOSER O/W-ROSTSCHUTZEMULSIONEN.

Title (fr)

PROCEDE POUR LA FABRICATION D'EMULSIONS AQUEUSES ANTIROUILLE STABLES ET FAIBLEMENT VISQUEUSES.

Publication

EP 0494884 B1 19941123

Application

EP 90913798 A 19900925

Priority

- DE 3933137 A 19891004
- EP 9001626 W 19900925

Abstract (en)

[origin: WO9105033A1] In the process described, a mixture containing an oil component, water and at least one emulsifier is emulsified at a temperature at which all of the components of the mixture are present in liquid form, and the emulsion formed is brought to a temperature in or above the phase-inversion temperature range of the emulsion; alternatively, the mixture is emulsified at a temperature in or above the phase-inversion temperature range, after which the emulsion is cooled to a temperature below this temperature range and is possibly diluted with water. This process is characterized in that the emulsion is formed by using a mixture having the following composition: a) 10 to 60% by weight of an oil component; b) 1 to 10% by weight of an emulsifying component consisting of at least one addition reaction product of 2 to 20 moles of ethylene oxide and fatty alcohols having 10 to 22 atoms of carbon; c) 1 to 10% by weight of a corrosion inhibitor, consisting of at least one carboxylic acid having the general formula (I): R-COOH (I), whereby R is a straight-chain or branched saturated or unsaturated alkyl residue with 6 to 22 atoms of carbon or a residue having the general formula (II) in which R<1>= a saturated, straight-chain or branched alkyl residue with 8 to 18 carbon atoms; d) 0 to 10% by weight of a co-emulsifier consisting of at least one fatty alcohol with 12 to 22 atoms of carbon; e) the balance being water.

IPC 1-7

C10M 173/00; C23F 11/12

IPC 8 full level

C10M 173/00 (2006.01); **C23F 11/00** (2006.01); **C23F 11/12** (2006.01); C10N 20/02 (2006.01); C10N 30/00 (2006.01); C10N 30/12 (2006.01)

CPC (source: EP KR US)

C10M 101/00 (2013.01 - EP US); **C10M 129/06** (2013.01 - EP US); **C10M 129/26** (2013.01 - EP US); **C10M 129/32** (2013.01 - EP US); **C10M 129/40** (2013.01 - EP US); **C10M 145/36** (2013.01 - EP US); **C10M 173/00** (2013.01 - EP KR US); **C23F 11/126** (2013.01 - EP US); C10M 2201/02 (2013.01 - EP US); C10M 2203/003 (2013.01 - EP US); C10M 2207/021 (2013.01 - EP US); C10M 2207/10 (2013.01 - EP US); C10M 2207/121 (2013.01 - EP US); C10M 2207/122 (2013.01 - EP US); C10M 2207/125 (2013.01 - EP US); C10M 2207/126 (2013.01 - EP US); C10M 2207/129 (2013.01 - EP US); C10M 2207/14 (2013.01 - EP US); C10M 2207/142 (2013.01 - EP US); C10M 2209/104 (2013.01 - EP US); C10M 2209/108 (2013.01 - EP US); C10N 2030/12 (2013.01 - EP US); C10N 2050/01 (2020.05 - EP US); Y10S 516/01 (2013.01 - EP US); Y10S 516/06 (2013.01 - EP US)

Designated contracting state (EPC)

DE

DOCDB simple family (publication)

WO 9105033 A1 19910418; AU 7552591 A 19910428; BR 9007717 A 19920707; CA 2067501 A1 19910405; DE 3933137 A1 19910418; DE 59007778 D1 19950105; EP 0494884 A1 19920722; EP 0494884 B1 19941123; JP H05500988 A 19930225; KR 920703770 A 19921218; US 5230730 A 19930727; ZA 907907 B 19910731

DOCDB simple family (application)

EP 9001626 W 19900925; AU 7552591 A 19900925; BR 9007717 A 19900925; CA 2067501 A 19900925; DE 3933137 A 19891004; DE 59007778 T 19900925; EP 90913798 A 19900925; JP 50668491 A 19900925; KR 920700761 A 19920403; US 83975392 A 19920406; ZA 907907 A 19901003