

Title (en)
PURIFICATION OF INDUSTRIAL LUBRICATING AGENTS

Title (de)
REINIGUNG INDUSTRIELLER SCHMIERMITTEL

Title (fr)
PURIFICATION D'AGENTS DE LUBRIFICATION INDUSTRIELS

Publication
EP 0451160 B1 19960911 (EN)

Application
EP 89912680 A 19891121

Priority
• SE 8804206 A 19881121
• SE 8900677 W 19891121

Abstract (en)
[origin: WO9005768A1] Use of polymeric two-phase systems for removing microbial contaminants from industrial lubricating agents, a method of purifying microbial contaminated lubricating agents by mixing the lubricating agent with a polymeric two-phase system, allowing the mixture to separate so as to form a top-phase containing the lubricating agent and a bottom-phase containing at least part of the microbial contaminants, and separating at least a major part of the microbially enriched bottom-phase from the top-phase, a plant for microbial purification of lubricating agents comprising a mixing tank (4) having means (7, 8) for feeding microbially contaminated lubricating agent (S) to the mixing tank, means (13) for feeding a polymeric two-phase system to the mixing tank, a stirrer (5) in the mixing tank, means (9, 10) for feeding the mixture to a separation device (6) for separating the mixture into a top-phase (T) containing lubricating agents, and a bottom-phase (B) containing microbial contaminants, and means (18) for recovering the top-phase of the two-phase system, and a lubricating agent concentrate, in which at least part of the lubricating agent at the same time forms part of the top-phase component of the polymeric two-phase system.

IPC 1-7
C10M 175/04

IPC 8 full level
C10M 175/02 (2006.01); **C10M 173/02** (2006.01); **C10M 175/00** (2006.01); **C10M 175/04** (2006.01); **C10N 30/16** (2006.01); **C10N 40/22** (2006.01)

CPC (source: EP)
C10M 107/34 (2013.01); **C10M 125/24** (2013.01); **C10M 173/02** (2013.01); **C10M 175/04** (2013.01); **C10M 2201/02** (2013.01); **C10M 2201/08** (2013.01); **C10M 2201/081** (2013.01); **C10M 2201/082** (2013.01); **C10M 2201/084** (2013.01); **C10M 2201/085** (2013.01); **C10M 2209/103** (2013.01); **C10M 2209/1033** (2013.01); **C10M 2209/104** (2013.01); **C10M 2209/1045** (2013.01); **C10M 2209/105** (2013.01); **C10M 2209/1055** (2013.01); **C10M 2209/1065** (2013.01); **C10M 2209/107** (2013.01); **C10M 2209/1075** (2013.01); **C10M 2209/1085** (2013.01); **C10M 2209/1095** (2013.01); **C10N 2040/22** (2013.01); **C10N 2050/01** (2020.05)

C-Set (source: EP)
C10M 173/02 + C10M 107/34 + C10M 125/24

Cited by
EP0724655B1

Designated contracting state (EPC)
AT BE CH DE ES FR GB IT LI LU NL SE

DOCDB simple family (publication)
WO 9005768 A1 19900531; AT E142685 T1 19960915; AU 4519789 A 19900612; AU 645004 B2 19940106; DE 68927180 D1 19961017; DE 68927180 T2 19970220; DK 95591 A 19910709; DK 95591 D0 19910521; EP 0451160 A1 19911016; EP 0451160 B1 19960911; ES 2091767 T3 19961116; FI 105273 B 20000714; FI 912351 A0 19910515; JP 2983235 B2 19991129; JP H04501731 A 19920326; NO 301080 B1 19970908; NO 911912 D0 19910516; NO 911912 L 19910516; SE 462393 B 19900618; SE 8804206 D0 19881121

DOCDB simple family (application)
SE 8900677 W 19891121; AT 89912680 T 19891121; AU 4519789 A 19891121; DE 68927180 T 19891121; DK 95591 A 19910521; EP 89912680 A 19891121; ES 89912680 T 19891121; FI 912351 A 19910515; JP 51173089 A 19891121; NO 911912 A 19910516; SE 8804206 A 19881121