

Title (en)

WATER-MIXED METALWORKING FLUIDS CONTAINING ETHER PYRROLIDONE CARBOXYLIC ACIDS

Title (de)

WASSERGEMISCHTE METALLBEARBEITUNGSFLÜSSIGKEITEN, ENTHALTEND ETHERPYRROLIDONCARBONSÄUREN

Title (fr)

LIQUIDES DE TRAITEMENT DE MÉTAUX MÉLANGÉS À DE L'EAU, CONTENANT DES ACIDES ÉTHERPYRROLIDONE CARBOXYLIQUES

Publication

**EP 2446006 A1 20120502 (DE)**

Application

**EP 10720355 A 20100519**

Priority

- EP 2010003061 W 20100519
- DE 102009030409 A 20090625

Abstract (en)

[origin: WO2010149250A1] The invention relates to compositions containing a basic oil or base oil, 10 to 50 percent by weight of ether pyrrolidone carboxylic acids of formula (1) or the salts thereof of formula (1), wherein R1 represents C8-C30-alkyl, C8-C30-alkenyl, C6-C30-aryl, C7-C30-alkylaryl, M represents hydrogen, alkali metal, alkaline earth metal, or ammonium, X represents C2-C6-alkylene, or a poly(oxyalkylene) group of formula (2), wherein l is a number ranging from 1 to 50, m, n are numbers ranging from 0 to 50 independently of l and independently of one another, R2, R3, and R4 independently represent hydrogen, CH3, or CH2CH3, Y represents C2-C6-alkylene, said compositions further containing a specific amount of a pH regulator/neutralizer such that a 5 percent by weight emulsion of the composition in deionized water has a pH ranging from 7 to 11.

IPC 8 full level

**C10M 173/00** (2006.01); **C10N 30/12** (2006.01); **C10N 30/18** (2006.01); **C10N 50/00** (2006.01)

CPC (source: EP US)

**C10M 173/00** (2013.01 - EP US); **C23F 11/10** (2013.01 - EP US); **C23F 11/143** (2013.01 - EP US); **C23F 11/149** (2013.01 - EP US); **C10M 2201/087** (2013.01 - EP US); **C10M 2203/10** (2013.01 - EP US); **C10M 2203/1006** (2013.01 - EP US); **C10M 2215/042** (2013.01 - EP US); **C10M 2215/223** (2013.01 - EP US); **C10N 2030/12** (2013.01 - EP US); **C10N 2030/18** (2013.01 - EP US); **C10N 2030/24** (2020.05 - EP US); **C10N 2040/20** (2013.01 - EP US); **C10N 2050/011** (2020.05 - EP US); **C10N 2070/02** (2020.05 - EP US)

Citation (search report)

See references of WO 2010149250A1

Designated contracting state (EPC)

AL 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

DOCDB simple family (publication)

**DE 102009030409 A1 20110105**; BR PI1011748 A2 20160322; CN 102369267 A 20120307; CN 102369267 B 20130612; EP 2446006 A1 20120502; JP 2012530817 A 20121206; US 2012088706 A1 20120412; US 9068137 B2 20150630; WO 2010149250 A1 20101229

DOCDB simple family (application)

**DE 102009030409 A 20090625**; BR PI1011748 A 20100519; CN 201080015486 A 20100519; EP 10720355 A 20100519; EP 2010003061 W 20100519; JP 2012516535 A 20100519; US 201013376418 A 20100519