

Title (en)
EMULSIFIERS FOR METAL WORKING FLUIDS

Title (de)
EMULGATOREN FÜR METALLBEARBEITUNGSFLÜSSIGKEITEN

Title (fr)
ÉMULSIFIANTS POUR FLUIDES DE TRAVAIL DES MÉTAUX

Publication
EP 2321392 A1 20110518 (EN)

Application
EP 09778164 A 20090827

Priority
• EP 2009006228 W 20090827
• EP 08015630 A 20080905
• EP 09778164 A 20090827

Abstract (en)
[origin: EP2161327A1] The application pertains to the use of an alkoxyated fatty alcohol characterized by the general formula (I) RO-(CH₂ CH₂ O)_m (CH₂ CHR'-O)_n-H (I) wherein R stands for a saturated and/or unsaturated alkyl moiety, containing 12 to 22 C-Atoms, R' is a methyl-, ethyl- or propyl-group, m represents a number of 1 to 12, and preferably 4 to 10, n represents a number of 1 to 10, and preferably 2 to 8, as emulsifier in metal working fluids, containing at least water and one oily component, non-miscible with water, and optionally further ingredients common for metal working fluids.

IPC 8 full level
C10M 173/00 (2006.01); **C09K 23/42** (2022.01); **C10M 173/02** (2006.01); **C10N 40/20** (2006.01)

CPC (source: EP KR US)
C09K 23/017 (2022.01 - EP US); **C09K 23/42** (2022.01 - EP KR US); **C10M 145/36** (2013.01 - EP US); **C10M 173/00** (2013.01 - EP US); **C10M 173/02** (2013.01 - EP KR US); **C10M 2201/02** (2013.01 - EP US); **C10M 2209/104** (2013.01 - EP US); **C10M 2209/107** (2013.01 - EP US); **C10N 2020/013** (2020.05 - EP US); **C10N 2030/18** (2013.01 - EP US); **C10N 2030/24** (2020.05 - EP US); **C10N 2040/20** (2013.01 - EP KR US); **C10N 2050/011** (2020.05 - EP US); **C10N 2070/02** (2020.05 - EP US)

Citation (search report)
See references of WO 2010025874A1

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 2161327 A1 20100310; AU 2009289864 A1 20100311; BR PI0918803 A2 20151208; CA 2734575 A1 20100311; CN 102144022 A 20110803; EP 2321392 A1 20110518; JP 2012502121 A 20120126; KR 20110065453 A 20110615; MX 2011002295 A 20110510; US 2011162425 A1 20110707; WO 2010025874 A1 20100311

DOCDB simple family (application)
EP 08015630 A 20080905; AU 2009289864 A 20090827; BR PI0918803 A 20090827; CA 2734575 A 20090827; CN 200980134474 A 20090827; EP 09778164 A 20090827; EP 2009006228 W 20090827; JP 2011525451 A 20090827; KR 20117005255 A 20090827; MX 2011002295 A 20090827; US 200913062586 A 20090827