

Title (en)

An overbased metal sulphonate detergent

Title (de)

Überbasisches Metall-Sulphonat-Detergenz

Title (fr)

Détergent à base de sulfonate métallique surbasé

Publication

EP 2045314 B1 20171108 (EN)

Application

EP 08105207 A 20080902

Priority

- EP 07117915 A 20071004
- EP 08105207 A 20080902

Abstract (en)

[origin: EP2045314A1] An overbased metal sulphonate detergent having incorporated therein at least one friction modifier including at least one amine group.

IPC 8 full level

C10M 159/24 (2006.01); **C10M 163/00** (2006.01); **C10N 30/04** (2006.01); **C10N 30/06** (2006.01)

CPC (source: EP)

C10M 159/24 (2013.01); **C10M 163/00** (2013.01); **C10M 2215/042** (2013.01); **C10M 2219/046** (2013.01); **C10N 2010/04** (2013.01); **C10N 2030/04** (2013.01); **C10N 2030/06** (2013.01)

Cited by

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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 MT NL NO PL PT RO SE SI SK TR

DOCDB simple family (publication)

EP 2045314 A1 20090408; **EP 2045314 B1 20171108**; CA 2640400 A1 20090404; CA 2640400 C 20151201; CN 101402898 A 20090408; CN 101402898 B 20140416; JP 2009091576 A 20090430; JP 2015098614 A 20150528; JP 5925929 B2 20160525; SG 151242 A1 20090430

DOCDB simple family (application)

EP 08105207 A 20080902; CA 2640400 A 20081003; CN 200810165981 A 20081006; JP 2008258900 A 20081003; JP 2015044270 A 20150306; SG 2008074601 A 20081003