

Title (en)

NATURAL AND SYNTHETIC SODIUM SULFONATE EMULSIFIER BLENDS

Title (de)

NATÜRLICHE UND SYNTHETISCHE NATRIUMSULFONAT-EMULGATORMISCHUNGEN

Title (fr)

MELANGES D'EMULSIFIANTS DE SULFONATE DE SODIUM SYNTHETIQUES ET NATURELS

Publication

EP 1848525 A1 20071031 (EN)

Application

EP 06736323 A 20060210

Priority

- US 2006006981 W 20060210
- US 32621006 A 20060104
- US 65368505 P 20050215

Abstract (en)

[origin: US2006183649A1] An emulsifier composition includes at least one natural alkali metal petroleum sulfonate and at least one synthetic alkali metal sulfonate. The emulsifier composition can be combined with a lubricant oil to provide a water-miscible lubricating oil concentrate which forms a stable aqueous emulsion upon the addition thereto of an aqueous medium.

IPC 8 full level

C09K 23/02 (2022.01); **C09K 23/08** (2022.01); **C09K 23/12** (2022.01); **C10M 135/10** (2006.01); **C10M 169/04** (2006.01); **C10M 173/00** (2006.01)

CPC (source: EP KR US)

C09K 23/00 (2022.01 - KR); **C10M 135/10** (2013.01 - KR); **C10M 169/04** (2013.01 - EP KR US); **C10M 173/00** (2013.01 - EP KR US); **C10M 2203/065** (2013.01 - EP US); **C10M 2203/1006** (2013.01 - EP US); **C10M 2205/0245** (2013.01 - EP US); **C10M 2205/0265** (2013.01 - EP US); **C10M 2205/0285** (2013.01 - EP US); **C10M 2219/044** (2013.01 - EP US); **C10N 2010/02** (2013.01 - EP US); **C10N 2040/20** (2013.01 - EP US); **C10N 2050/01** (2020.05 - EP US)

Citation (search report)

See references of WO 2006089310A1

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)

US 2006183649 A1 20060817; EP 1848525 A1 20071031; JP 2008529776 A 20080807; KR 20070110282 A 20071116; WO 2006089310 A1 20060824

DOCDB simple family (application)

US 32621006 A 20060104; EP 06736323 A 20060210; JP 2007555393 A 20060210; KR 20077017636 A 20070730; US 2006006981 W 20060210