

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)

C-Set (source: EP US)

1. **C10M 2219/044** + **C10M 2219/044**
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Citation (search report)

See references of WO 2006089310A1

Designated contracting state (EPC)

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