

Title (en)

ADDITIVES FOR LOW-SULPHUR MINERAL OIL DISTILLATES, CONTAINING AN ESTER OF AN ALKOXYLATED POLYOL AND A POLAR NITROGENOUS PARAFFIN DISPERSANT

Title (de)

ADDITIVE FÜR SCHWEFELARME MINERALÖLDESTILLATE, UMFASSEND EINEN ESTER EINES ALKOXYLIERTEN POLYOLS

Title (fr)

ADDITIFS POUR DISTILLATS D'HUILE MINERALE A BASSE TENEUR EN SOUFRE, CONTENANT UN ESTER D'UN POLYOL ALCOXYLE ET UN DISPERSANT PARAFFINIQUE POLAIRE AZOTE

Publication

**EP 1451271 A2 20040901 (DE)**

Application

**EP 02790323 A 20021102**

Priority

- DE 10155774 A 20011114
- EP 0212232 W 20021102

Abstract (en)

[origin: WO03042336A2] The invention relates to additives for middle distillates having a maximal sulphur content of 0.05 wt. %. Said additives contain at least one fatty acid ester of alkoxylated polyols with at least 3 OH groups (A) and at least one polar nitrogenous paraffin dispersant (D).

IPC 1-7

**C10L 1/14**

IPC 8 full level

**C10L 1/18** (2006.01); **C10L 1/14** (2006.01); **C10L 1/19** (2006.01); **C10L 1/192** (2006.01); **C10L 1/195** (2006.01); **C10L 1/198** (2006.01); **C10L 1/22** (2006.01); **C10L 1/223** (2006.01); **C10L 1/224** (2006.01); **C10L 1/234** (2006.01); **C10L 10/14** (2006.01); **C10L 10/18** (2006.01); **C10L 1/16** (2006.01)

CPC (source: EP KR US)

**C10L 1/143** (2013.01 - EP US); **C10L 1/22** (2013.01 - KR); **C10L 1/1616** (2013.01 - EP US); **C10L 1/191** (2013.01 - EP US); **C10L 1/1966** (2013.01 - EP US); **C10L 1/1973** (2013.01 - EP US); **C10L 1/1981** (2013.01 - EP US); **C10L 1/1985** (2013.01 - EP US); **C10L 1/1986** (2013.01 - EP US); **C10L 1/221** (2013.01 - EP US); **C10L 1/2222** (2013.01 - EP US); **C10L 1/224** (2013.01 - EP US); **C10L 1/2364** (2013.01 - EP US); **C10L 1/238** (2013.01 - EP US)

Citation (search report)

See references of WO 03042336A2

Cited by

WO2013160228A1

Designated contracting state (EPC)

BE DE ES FI FR GB IT NL SE

DOCDB simple family (publication)

**WO 03042336 A2 20030522**; **WO 03042336 A3 20031231**; DE 10155774 A1 20030528; DE 10155774 B4 20200702; DE 50208165 D1 20061026; EP 1451271 A2 20040901; EP 1451271 B1 20060913; ES 2272798 T3 20070501; JP 2005509084 A 20050407; KR 101139711 B1 20120426; KR 20050042253 A 20050506; KR 20100083859 A 20100722; US 2005005507 A1 20050113; US 7323019 B2 20080129

DOCDB simple family (application)

**EP 0212232 W 20021102**; DE 10155774 A 20011114; DE 50208165 T 20021102; EP 02790323 A 20021102; ES 02790323 T 20021102; JP 2003544156 A 20021102; KR 20047007311 A 20040513; KR 20107014613 A 20021102; US 49556004 A 20040512