

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