

Title (en)
ADDITIVES FOR SULFUR-POOR MINERAL OIL DISTILLATES COMPRISING AN ESTER OF AN ALKOXYLATED POLYOL AND AN ALKYLPHENOL-ALDEHYDE RESIN

Title (de)
ADDITIVE FÜR SCHWEFELARME MINERALÖLDESTILLATE, UMFASSEND EINEN ESTER EINES ALKOXYLIERTEN POLYOLS UND EIN ALKYLPHENOL-ALDEHYDHARZ

Title (fr)
ADDITIFS POUR DISTILLATS DE PETROLE PAUVRES EN SOUFRE, CONTENANT UN ESTER D'UN POLYOL ALKOXYLE ET UNE RESINE ALDEHYDE ALKYLE PHENOL

Publication
EP 1446464 B1 20050727 (DE)

Application
EP 02802985 A 20021102

Priority
• DE 10155747 A 20011114
• EP 0212235 W 20021102

Abstract (en)
[origin: WO03042338A2] The invention relates to additives for middle distillates with a maximum sulfur content of 0.05 percent by weight, containing at least one fatty acid ester of alkoxyolated polyols with at least 3 OH groups (A) and at least one alkylphenol-aldehyde resin (C).

IPC 1-7
C10L 1/18; **C10L 1/14**; **C10M 157/00**; **C10M 161/00**

IPC 8 full level
C10L 1/18 (2006.01); **C10L 1/14** (2006.01); **C10L 1/183** (2006.01); **C10L 1/19** (2006.01); **C10L 1/192** (2006.01); **C10L 1/197** (2006.01); **C10L 1/22** (2006.01); **C10L 1/222** (2006.01); **C10L 1/224** (2006.01); **C10L 10/14** (2006.01); **C10L 10/18** (2006.01); **C10M 157/00** (2006.01); **C10M 161/00** (2006.01); **C10L 1/16** (2006.01)

CPC (source: EP KR US)
C10L 1/143 (2013.01 - EP KR US); **C10L 1/1616** (2013.01 - KR); **C10L 1/191** (2013.01 - KR); **C10L 1/192** (2013.01 - EP KR US); **C10L 1/1973** (2013.01 - KR); **C10L 1/1981** (2013.01 - KR); **C10L 1/1985** (2013.01 - KR); **C10L 1/221** (2013.01 - KR); **C10M 101/00** (2013.01 - KR); **C10L 1/1616** (2013.01 - EP US); **C10L 1/191** (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 1/221** (2013.01 - EP US); **C10L 1/224** (2013.01 - EP US); **C10L 1/2364** (2013.01 - EP US)

Designated contracting state (EPC)
BE DE ES FI FR GB IT NL SE

DOCDB simple family (publication)
WO 03042338 A2 20030522; **WO 03042338 A3 20031009**; DE 10155747 A1 20030528; DE 10155747 B4 20080911; DE 50203784 D1 20050901; EP 1446464 A2 20040818; EP 1446464 B1 20050727; ES 2243799 T3 20051201; JP 2005509086 A 20050407; KR 101072787 B1 20111014; KR 20050042255 A 20050506; US 2005000152 A1 20050106; US 7377949 B2 20080527

DOCDB simple family (application)
EP 0212235 W 20021102; DE 10155747 A 20011114; DE 50203784 T 20021102; EP 02802985 A 20021102; ES 02802985 T 20021102; JP 2003544158 A 20021102; KR 20047007334 A 20021102; US 49555904 A 20040512