

Title (en)  
LUBRICITY IMPROVER AND A FUEL AND LUBRICANT COMPOSITIONS CONTAINING SAID AGENT

Title (de)  
SCHMIERFÄHIGKEITSVERBESSERER UND DIESE ENTHALTENDE KRAFTSTOFF- UND SCHMIERSTOFFZUSAMMENSETZUNGEN

Title (fr)  
SUBSTANCES AMELIORANT LE POUVOIR LUBRIFIANT ET COMPOSITIONS DE CARBURANT ET DE LUBRIFIANT CONTENANT LESDITES SUBSTANCES

Publication  
**EP 1230328 B1 20041013 (DE)**

Application  
**EP 00985046 A 20001116**

Priority  
• DE 19955354 A 19991117  
• EP 0011382 W 20001116

Abstract (en)  
[origin: WO0136568A1] The invention relates to additive mixtures comprising a) the reaction product formed after reaction of a dicarboxylic acid or a derivative thereof with a long-chain, aliphatic amine; and b) a natural fatty acid ester; c) the use of said additive mixture for improving the lubricity of fuels and for improving engine resistance to wear, in addition to fuel and lubricant compositions containing said additive mixtures.

IPC 1-7  
**C10L 1/14**; **C10L 10/04**; **C10M 141/06**; **C10M 163/00**

IPC 8 full level  
**C10L 1/224** (2006.01); **C10L 1/06** (2006.01); **C10L 1/14** (2006.01); **C10L 1/18** (2006.01); **C10L 1/19** (2006.01); **C10L 10/04** (2006.01); **C10L 10/08** (2006.01); **C10M 141/06** (2006.01); **C10M 163/00** (2006.01); **C10L 1/16** (2006.01); **C10L 1/22** (2006.01)

CPC (source: EP KR)  
**C10L 1/14** (2013.01 - KR); **C10L 1/143** (2013.01 - EP); **C10L 10/08** (2013.01 - EP); **C10M 129/70** (2013.01 - EP); **C10M 129/74** (2013.01 - EP); **C10M 133/16** (2013.01 - EP); **C10M 141/06** (2013.01 - EP); **C10M 159/08** (2013.01 - EP); **C10M 163/00** (2013.01 - EP); **C10L 1/1641** (2013.01 - EP); **C10L 1/1802** (2013.01 - EP); **C10L 1/19** (2013.01 - EP); **C10L 1/191** (2013.01 - EP); **C10L 1/224** (2013.01 - EP); **C10L 1/238** (2013.01 - EP); **C10L 1/2383** (2013.01 - EP); **C10M 2207/281** (2013.01 - EP); **C10M 2207/283** (2013.01 - EP); **C10M 2207/284** (2013.01 - EP); **C10M 2207/40** (2013.01 - EP); **C10M 2207/402** (2013.01 - EP); **C10M 2207/404** (2013.01 - EP); **C10M 2215/08** (2013.01 - EP); **C10M 2215/082** (2013.01 - EP); **C10M 2215/086** (2013.01 - EP); **C10M 2215/12** (2013.01 - EP); **C10M 2215/122** (2013.01 - EP)

Citation (examination)  
US 3544467 A 19701201 - KAUTSKY GEORGE J

Cited by  
US7850744B2; US8814957B2; WO2017006141A1; WO2017006167A1; US11072753B2

Designated contracting state (EPC)  
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)  
**WO 0136568 A1 20010525**; AT E279497 T1 20041015; CA 2391932 A1 20010525; DE 19955354 A1 20010523; DE 50008267 D1 20041118; DK 1230328 T3 20050214; EP 1230328 A1 20020814; EP 1230328 B1 20041013; ES 2228644 T3 20050416; JP 2003514953 A 20030422; KR 20020052212 A 20020702; NO 20022357 D0 20020516; NO 20022357 L 20020626; PT 1230328 E 20050228

DOCDB simple family (application)  
**EP 0011382 W 20001116**; AT 00985046 T 20001116; CA 2391932 A 20001116; DE 19955354 A 19991117; DE 50008267 T 20001116; DK 00985046 T 20001116; EP 00985046 A 20001116; ES 00985046 T 20001116; JP 2001539048 A 20001116; KR 20027006338 A 20020517; NO 20022357 A 20020516; PT 00985046 T 20001116