

Title (en)

FRICTION MODIFIER ADDITIVE COMBINATION

Title (de)

REIBUNGSMODIFIZIERENDE ZUSATZKOMBINATION

Title (fr)

MELANGE D'ADDITIFS A FONCTION DE MODIFICATEUR DE FROTTEMENT

Publication

EP 1299509 B1 20040825 (EN)

Application

EP 01949345 A 20010517

Priority

- EP 0105656 W 20010517
- GB 0011931 A 20000517

Abstract (en)

[origin: WO0188067A2] This invention relates to a friction modifier additive combination comprising (a) an oil-soluble fatty amine compound and (b) an oil-soluble fatty amide compound. Automatic transmission fluids comprising the above additives achieved a green shudder of 0 hour and a shudder resistance time of 110 hours or above.

IPC 1-7

C10M 141/06

IPC 8 full level

C10M 133/02 (2006.01); **C10M 161/00** (2006.01)

CPC (source: EP)

C10M 133/02 (2013.01); **C10M 133/06** (2013.01); **C10M 133/10** (2013.01); **C10M 145/14** (2013.01); **C10M 161/00** (2013.01); **C10M 2209/084** (2013.01); **C10M 2215/00** (2013.01); **C10M 2215/04** (2013.01); **C10M 2215/042** (2013.01); **C10M 2215/044** (2013.01); **C10M 2215/08** (2013.01); **C10M 2215/082** (2013.01); **C10M 2215/26** (2013.01); **C10M 2215/28** (2013.01); **C10N 2040/04** (2013.01); **C10N 2040/042** (2020.05); **C10N 2040/044** (2020.05); **C10N 2040/046** (2020.05)

Cited by

US10947474B2; WO2011046524A1; US7989408B2; US8299005B2

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 0188067 A2 20011122; **WO 0188067 A3 20020411**; AT E274567 T1 20040915; AU 7052501 A 20011126; DE 60105165 D1 20040930; DE 60105165 T2 20050908; EP 1299509 A2 20030409; EP 1299509 B1 20040825; ES 2227234 T3 20050401; GB 0011931 D0 20000705; PT 1299509 E 20050131

DOCDB simple family (application)

EP 0105656 W 20010517; AT 01949345 T 20010517; AU 7052501 A 20010517; DE 60105165 T 20010517; EP 01949345 A 20010517; ES 01949345 T 20010517; GB 0011931 A 20000517; PT 01949345 T 20010517