

Title (en)  
HYDROXY ETHER AMINE FRICTION MODIFIER FOR USE IN POWER TRANSMISSION FLUIDS AND ANTI-WEAR ADDITIVES FOR USE IN COMBINATION THEREWITH

Publication  
**EP 0353854 B1 19930623 (EN)**

Application  
**EP 89306419 A 19890623**

Priority  
US 21124088 A 19880624

Abstract (en)  
[origin: EP0353854A1] Oleaginous compositions comprising a fuel oil or a lubricating oil, a friction modifying amount of a hydroxy ether amine compound such as that having the formula: <CHEM> where X is O or S, R3 is H, R1 is C18 alkylene, R2 is C3 alkylene, and R4 and R5 are C2 alkylene, and, optionally an amount effective to impart anti-wear properties to the composition of an organic phosphite ester, such as triphenyl phosphite, are disclosed.

IPC 1-7  
**C10M 133/08**; **C10M 135/24**; **C10M 139/00**; **C10M 141/10**; **C10M 141/12**; **C10M 167/00**; **C10N 30/06**; **C10N 40/04**; **C10N 60/14**

IPC 8 full level  
**C10M 133/08** (2006.01); **C10M 135/24** (2006.01); **C10M 137/02** (2006.01); **C10M 139/00** (2006.01); **C10M 141/10** (2006.01); **C10M 141/12** (2006.01); **C10M 159/12** (2006.01); **C10M 163/00** (2006.01); **C10M 167/00** (2006.01); **C10N 30/06** (2006.01); **C10N 40/04** (2006.01)

CPC (source: EP)  
**C10M 133/08** (2013.01); **C10M 135/24** (2013.01); **C10M 139/00** (2013.01); **C10M 141/10** (2013.01); **C10M 141/12** (2013.01); **C10M 167/00** (2013.01); **C10M 2215/042** (2013.01); **C10M 2219/084** (2013.01); **C10M 2219/085** (2013.01); **C10M 2223/045** (2013.01); **C10M 2223/049** (2013.01); **C10M 2227/061** (2013.01); **C10N 2030/06** (2013.01); **C10N 2040/04** (2013.01); **C10N 2040/042** (2020.05); **C10N 2040/25** (2013.01); **C10N 2060/14** (2013.01); **C10N 2070/02** (2020.05)

Cited by  
US5817605A; GB2285056A; GB2285056B; CN111108182A; EP0617116A1; FR2702772A1; GB2257158A; GB2257158B; US10955009B2; WO9321289A1

Designated contracting state (EPC)  
DE FR GB

DOCDB simple family (publication)  
**EP 0353854 A1 19900207**; **EP 0353854 B1 19930623**; DE 68907288 D1 19930729; DE 68907288 T2 19931021; JP 2807902 B2 19981008; JP H0260996 A 19900301

DOCDB simple family (application)  
**EP 89306419 A 19890623**; DE 68907288 T 19890623; JP 15983089 A 19890623