

Publication

EP 0561947 A4 19940112

Application

EP 92901347 A 19911202

Priority

- US 62067490 A 19901203
- US 62258590 A 19901203
- US 62779090 A 19901214

Abstract (en)

[origin: WO9209673A1] The reaction products of (1) anhydrides and/or poly-acids and (2) aminoalcohols or aminoalcohols/amides with long chain hydrocarbyl groups attached improve the low-temperature properties of distillate fuel when added thereto.

IPC 1-7

C10L 1/14

IPC 8 full level

C07C 219/04 (2006.01); **C07C 237/08** (2006.01); **C10L 1/18** (2006.01); **C10L 1/19** (2006.01); **C10L 1/222** (2006.01); **C10L 1/224** (2006.01); **C10L 1/2387** (2006.01); **C10L 10/14** (2006.01)

CPC (source: EP KR)

C10L 1/14 (2013.01 - KR); **C10L 1/2222** (2013.01 - EP); **C10L 1/2225** (2013.01 - EP); **C10L 1/224** (2013.01 - EP); **C10L 1/2387** (2013.01 - EP)

Citation (search report)

- [X] EP 0378883 A1 19900725 - MOBIL OIL CORP [US]
- [E] EP 0464489 A1 19920108 - BASF AG [DE]
- [X] US 3836471 A 19740917 - MILLER C
- [X] US 3090795 A 19630521 - CYBA HENRYK A
- [X] US 3116129 A 19631231 - UDELHOFEN JOHN H
- [X] US 3183070 A 19650511 - UDELHOFEN JOHN H
- See references of WO 9209673A1

Designated contracting state (EPC)

AT BE CH DE DK ES FR GB IT LI NL SE

DOCDB simple family (publication)

WO 9209673 A1 19920611; AU 654518 B2 19941110; AU 9101591 A 19920625; EP 0561947 A1 19930929; EP 0561947 A4 19940112; JP H06503836 A 19940428; KR 930703420 A 19931130

DOCDB simple family (application)

US 9108980 W 19911202; AU 9101591 A 19911202; EP 92901347 A 19911202; JP 50811092 A 19911202; KR 930701647 A 19930602