

Title (en)

Amino alkyl phosphonate as antiwear additive for lubricant containing hydrophylic basestock.

Title (de)

Aminoalkylphosphonat als Verschleisschutzadditiv für Schmiermittel mit einem hydrophilen Grundöl.

Title (fr)

Aminoalkyl phosphonate en tant qu'additif anti-usure pour lubrifiant ayant une composition de base hydrophile.

Publication

EP 0608018 A1 19940727 (EN)

Application

EP 94200064 A 19940113

Priority

US 720493 A 19930122

Abstract (en)

Lubricants containing hydrophilic basestocks (e.g., water-based lubricants or organic-based lubricants with polyalkylene glycol basestocks containing free hydroxy groups) can be formulated with an amino alkyl phosphonate antiwear additive.

IPC 1-7

C10M 137/12; **C10M 169/04**; **C10M 173/02**

IPC 8 full level

C10M 137/12 (2006.01); **C10M 169/04** (2006.01); **C10M 173/02** (2006.01)

CPC (source: EP)

C10M 107/34 (2013.01); **C10M 137/10** (2013.01); **C10M 137/12** (2013.01); **C10M 145/10** (2013.01); **C10M 169/04** (2013.01); **C10M 173/02** (2013.01); **C10M 2201/02** (2013.01); **C10M 2209/08** (2013.01); **C10M 2209/082** (2013.01); **C10M 2209/103** (2013.01); **C10M 2209/1033** (2013.01); **C10M 2209/1045** (2013.01); **C10M 2209/1055** (2013.01); **C10M 2209/1065** (2013.01); **C10M 2209/1075** (2013.01); **C10M 2209/1085** (2013.01); **C10M 2209/1095** (2013.01); **C10M 2223/04** (2013.01); **C10M 2223/042** (2013.01); **C10M 2223/045** (2013.01); **C10M 2223/06** (2013.01); **C10M 2223/061** (2013.01); **C10M 2223/065** (2013.01); **C10M 2225/00** (2013.01); **C10M 2225/02** (2013.01); **C10N 2020/01** (2020.05); **C10N 2040/00** (2013.01); **C10N 2040/08** (2013.01); **C10N 2040/20** (2013.01); **C10N 2040/30** (2013.01); **C10N 2040/32** (2013.01); **C10N 2040/34** (2013.01); **C10N 2040/36** (2013.01); **C10N 2040/38** (2020.05); **C10N 2040/40** (2020.05); **C10N 2040/42** (2020.05); **C10N 2040/44** (2020.05); **C10N 2040/50** (2020.05); **C10N 2050/01** (2020.05)

Citation (search report)

- [X] WO 9118073 A1 19911128 - LUBRIZOL CORP [US]
- [X] US 4563299 A 19860107 - FRANGATOS GERASSIMOS [US]
- [X] FR 1222104 A 19600608 - CALIFORNIA RESEARCH CORP
- [X] US 4260499 A 19810407 - FEIN RICHARD S, et al
- [A] US 2635112 A 19530414 - KIRBY FIELDS ELLIS
- [A] US 3498969 A 19700303 - LEWIS MORTON
- [DA] EP 0335701 A2 19891004 - ETHYL PETROLEUM ADDITIVES INC [US]
- [A] DATABASE WPI Section Ch Week 9214, Derwent World Patents Index; Class E16, AN 92-112250

Cited by

EP2570471A1; CN102994192A; CN106244293A; US10563146B2; US11149226B2

Designated contracting state (EPC)

DE FR GB IT NL

DOCDB simple family (publication)

EP 0608018 A1 19940727; CA 2113954 A1 19940723

DOCDB simple family (application)

EP 94200064 A 19940113; CA 2113954 A 19940121