

Title (en)

LUBRICANT AND FUEL COMPOSITIONS CONTAINING AN ORGANO-SUBSTITUTED DIPHENYL SULFIDE

Title (de)

ORGANOSUBSTITUIERTE DIPHENYLSULFIDE ENTHALTENDE SCHMIERMITTEL UND KRAFTSTOFFZUSAMMENSETZUNGEN

Title (fr)

COMPOSITIONS DE LUBRIFIANT ET DE CARBURANT CONTENANT DU SULFURE DE DIPHENYLE SUBSTITUE PAR ORGANO

Publication

EP 0815187 A4 19981021 (EN)

Application

EP 96905480 A 19960214

Priority

- US 9601927 W 19960214
- US 40773895 A 19950320

Abstract (en)

[origin: WO9629381A1] Lubricant and fuel compositions contain a combination of an organo, ring-substituted diphenyl sulfide, e.g. a monoalkyldiphenyl sulfide; a succinic dispersant component which is a polymer-substituted succinimide, succinamide and/or succinic acid ester; a dithiophosphate, e.g., a zinc dithiophosphate. The compositions have superior antiwear and extreme pressure properties.

IPC 1-7

C10M 141/10; **C10L 1/26**

IPC 8 full level

C10L 1/234 (2006.01); **C10L 1/24** (2006.01); **C10L 1/26** (2006.01); **C10L 10/08** (2006.01); **C10L 10/18** (2006.01); **C10M 135/28** (2006.01); **C10M 137/10** (2006.01); **C10M 141/10** (2006.01); **C10M 149/06** (2006.01); **C10M 161/00** (2006.01); **C10M 169/04** (2006.01); **C10N 10/04** (2006.01); **C10N 30/06** (2006.01); **C10N 40/25** (2006.01)

CPC (source: EP)

C10M 101/02 (2013.01); **C10M 105/72** (2013.01); **C10M 129/95** (2013.01); **C10M 133/56** (2013.01); **C10M 135/28** (2013.01); **C10M 137/10** (2013.01); **C10M 141/10** (2013.01); **C10M 169/04** (2013.01); **C10M 2203/1006** (2013.01); **C10M 2203/1025** (2013.01); **C10M 2203/1045** (2013.01); **C10M 2203/1065** (2013.01); **C10M 2203/1085** (2013.01); **C10M 2207/282** (2013.01); **C10M 2207/34** (2013.01); **C10M 2215/04** (2013.01); **C10M 2215/26** (2013.01); **C10M 2215/28** (2013.01); **C10M 2217/046** (2013.01); **C10M 2217/06** (2013.01); **C10M 2219/003** (2013.01); **C10M 2219/021** (2013.01); **C10M 2219/0406** (2013.01); **C10M 2219/0463** (2013.01); **C10M 2219/061** (2013.01); **C10M 2219/081** (2013.01); **C10M 2219/086** (2013.01); **C10M 2219/101** (2013.01); **C10M 2223/045** (2013.01); **C10N 2010/04** (2013.01)

Citation (search report)

- [X] US 5344578 A 19940906 - WEI LIWEN [US], et al
- [X] US 4161451 A 19790717 - LOWE WARREN [US]
- [A] US 4098708 A 19780704 - STUEBE CARL WALTER
- See references of WO 9629381A1

Designated contracting state (EPC)

BE DE FR GB IT NL

DOCDB simple family (publication)

WO 9629381 A1 19960926; AU 4922596 A 19961008; AU 690829 B2 19980430; DE 69621434 D1 20020704; DE 69621434 T2 20020912; EP 0815187 A1 19980107; EP 0815187 A4 19981021; EP 0815187 B1 20020529; JP 3184226 B2 20010709; JP H10510319 A 19981006

DOCDB simple family (application)

US 9601927 W 19960214; AU 4922596 A 19960214; DE 69621434 T 19960214; EP 96905480 A 19960214; JP 52840396 A 19960214