

Title (en)

Polyphenylene ether lubricant containing hydrocarbyl bis(dihydrocarbylphosphate) compound.

Title (de)

Hydrocarbyl Bis(dihydrocarbylphosphat) Verbindung enthaltendes Polyphenylenether Schmiermittel.

Title (fr)

Lubrifiant, polyphénylène éther, contenant un composé bis(dihydrocarbylphosphate) hydrocarbyl.

Publication

**EP 0612837 A1 19940831 (EN)**

Application

**EP 93203669 A 19931223**

Priority

US 100893 A 19930106

Abstract (en)

Polyphenylene ether-based lubricant compositions can be improved in regard to anti-wear properties by inclusion of a hydrocarbyl bis(dihydrocarbylphosphate) compound, for example, at up to about 10% by weight. The preferred compounds contain a hydrocarbyl group derived from a monoaromatic diol such as resorcinol or hydroquinone and are diphenylphosphate species.

IPC 1-7

**C10M 169/04**

IPC 8 full level

**C10M 169/04** (2006.01)

CPC (source: EP)

**C10M 107/32** (2013.01); **C10M 137/04** (2013.01); **C10M 169/04** (2013.01); **C10M 2209/00** (2013.01); **C10M 2209/02** (2013.01); **C10M 2209/10** (2013.01); **C10M 2209/1013** (2013.01); **C10M 2209/1023** (2013.01); **C10M 2223/04** (2013.01); **C10M 2223/041** (2013.01); **C10M 2223/042** (2013.01)

Citation (search report)

- [Y] US 3374175 A 19680319 - SAX KARL J, et al
- [Y] US 2722518 A 19551101 - WATSON FORREST J
- [PY] EP 0521628 A2 19930107 - ETHYL PETROLEUM ADDITIVES INC [US], et al
- [PY] US 5196130 A 19930323 - GSCHWENDER LOIS J [US], et al
- [DY] US 3706668 A 19721219 - CLARK FRANK S
- [DY] US 3492373 A 19700127 - MATSON HOWARD J, et al
- [Y] US 3071548 A 19630101 - GLEIM WILLIAM K T, et al
- [A] US 3169925 A 19650216 - MAHONEY CLARENCE L
- [A] GB 2028823 A 19800312 - GAF CORP
- [DA] US 4212832 A 19800715 - MITSCHKE KARL-HEINZ [DE], et al

Cited by

US9777242B2; FR3110593A1; JP2010189479A; JP6041223B2; JP6041224B2; US9783758B2; WO2021233946A1; JPWO2011118707A1; EP2598489A4; JPWO2011118708A1; EP2397536A4; US2015337233A1; GB2405148A; GB2405148B; US7367587B2; US8703674B2; US8722597B2; US8993498B2; US8623795B2; US8618031B2; CN104937084A; US2016002562A1; US2023242830A1; WO2012015878A1; WO2011118707A1; WO2014115602A1; WO2011118708A1; WO03095463A1; WO2011158595A1; WO2015026566A1; US11230683B2; WO2014115603A1

Designated contracting state (EPC)

DE FR GB IT NL

DOCDB simple family (publication)

**EP 0612837 A1 19940831**; CA 2112775 A1 19940707

DOCDB simple family (application)

**EP 93203669 A 19931223**; CA 2112775 A 19940104