

Title (en)

Overbased lubricating oil additives containing a molybdenum complex, process of preparation and compositions containing the same.

Title (de)

Überbasischen Molybdänkomplex enthaltende Schmieröladditive, Verfahren zu ihrer Herstellung und Zusammensetzung, die sie enthalten.

Title (fr)

Additifs surbasés pour huiles lubrifiantes renfermant un complexe du molybdène, leur procédé de préparation et compositions renfermant lesdits additifs.

Publication

EP 0404650 B1 19931027 (FR)

Application

EP 90401695 A 19900615

Priority

FR 8908095 A 19890619

Abstract (en)

[origin: EP0404650A1] Overbased additives for lubricating oils, containing an organic molybdenum complex which is practically insoluble in hydrocarbons. The complexes are formed with organic compounds such as amines, diamines, alkoxylated amines, glycols and polyols. <??>The additives according to the invention exhibit antiwear, friction reducing and antioxidant properties in lubricant formulations.

IPC 1-7

C10M 159/18; **C10M 159/20**

IPC 8 full level

C10M 159/18 (2006.01); **C10M 159/20** (2006.01); **C10N 10/12** (2006.01); **C10N 30/02** (2006.01); **C10N 30/04** (2006.01); **C10N 30/06** (2006.01); **C10N 30/10** (2006.01); **C10N 40/25** (2006.01); **C10N 60/10** (2006.01); **C10N 70/00** (2006.01); **F02B 1/04** (2006.01)

CPC (source: EP US)

C10M 159/18 (2013.01 - EP US); **C10M 159/20** (2013.01 - EP US); **C10M 2227/09** (2013.01 - EP US); **C10N 2010/12** (2013.01 - EP US); **F02B 1/04** (2013.01 - EP US)

Cited by

WO9637585A1

Designated contracting state (EPC)

BE DE ES GB IT NL

DOCDB simple family (publication)

EP 0404650 A1 19901227; **EP 0404650 B1 19931027**; DE 69004163 D1 19931202; DE 69004163 T2 19940511; ES 2060977 T3 19941201; FR 2648473 A1 19901221; FR 2648473 B1 19940401; JP 2883167 B2 19990419; JP H0335094 A 19910215; US 5143633 A 19920901

DOCDB simple family (application)

EP 90401695 A 19900615; DE 69004163 T 19900615; ES 90401695 T 19900615; FR 8908095 A 19890619; JP 16117990 A 19900619; US 53985690 A 19900618