

Title (en)
Fluorinated lubricants

Title (de)
Fluorierte Schmierfettzusammensetzungen

Title (fr)
Graisses fluorées

Publication
EP 1731592 A3 20070829 (EN)

Application
EP 06010615 A 20060523

Priority
IT MI20051081 A 20050610

Abstract (en)
[origin: EP1731592A2] Fluorinated lubricants comprising "pour point depressant" additives of structure: ##### X 1 -O (CF 2 O) n (CF 2 CF 2 O) m (CF 2 CF 2 CF 2 O) p (CF 2 CF 2 CF 2 CF 2 O) q -X 2 #####(I) wherein -X 1 , X 2 , have formula -(CF 2) z CF 3 wherein z is an integer from 0 to 3; n is an integer between 1 and 200; m is an integer between 0 and 200; p,q are integers between 0 and 10; (p+q)/(p+q+m+n) ≤ 0.05; m/n ≤ 0.7; the number average molecular weight of (I) is between 1,000 and 10,000.

IPC 8 full level
C10M 107/38 (2006.01); **C10M 147/04** (2006.01); **C10M 169/04** (2006.01)

CPC (source: EP US)
C10M 107/38 (2013.01 - EP US); **C10M 147/04** (2013.01 - EP US); **C10M 169/04** (2013.01 - EP US); **C10M 2213/04** (2013.01 - EP US); **C10M 2213/043** (2013.01 - EP US); **C10N 2020/02** (2013.01 - EP US); **C10N 2020/04** (2013.01 - EP US); **C10N 2030/08** (2013.01 - EP US); **C10N 2040/06** (2013.01 - EP US); **C10N 2040/30** (2013.01 - EP US)

Citation (search report)
• [X] US 5624713 A 19970429 - RAMER PAUL [US]
• [DX] US 3665041 A 19720523 - SIANESI DARIO, et al
• [X] US 5202501 A 19930413 - LAGOW RICHARD J [US], et al
• [XD] US 3715378 A 19730206 - BELARDINELLI G, et al

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

Designated extension state (EPC)
AL BA HR MK YU

DOCDB simple family (publication)
EP 1731592 A2 20061213; **EP 1731592 A3 20070829**; CN 1876784 A 20061213; IT MI20051081 A1 20061211; JP 2006348292 A 20061228; US 2006281640 A1 20061214

DOCDB simple family (application)
EP 06010615 A 20060523; CN 200610092737 A 20060609; IT MI20051081 A 20050610; JP 2006161170 A 20060609; US 44867006 A 20060608