

Title (en)

FLUOROCARBON SEAL PROTECTIVE ADDITIVES FOR LUBRICATION OILS

Title (de)

ABDICHTUNGEN AUS FLUORKOHLNSTOFF SCHÜTZENDE ZUSÄTZE FÜR SCHMIERÖLE

Title (fr)

ADDITIFS PROTEGEANT LES JOINTS D'ETANCHEITE AU FLUOROCARBONE DESTINES AUX HUILES DE GRAISSAGE

Publication

EP 0562062 B1 19980107 (EN)

Application

EP 92918231 A 19920825

Priority

- US 9207141 W 19920825
- US 77282191 A 19911008

Abstract (en)

[origin: WO9307242A1] Certain borated aromatic polyols, such as catechol borate, are found to be effective lube oil additives to compatibilize the oil with the fluorocarbon polymer seals when the lube oil contains basic nitrogen.

IPC 1-7

C10M 139/00; **C10M 141/12**

IPC 8 full level

C10M 133/56 (2006.01); **C10M 139/00** (2006.01); **C10M 141/12** (2006.01); **C10M 167/00** (2006.01); **C10N 30/12** (2006.01); **C10N 40/25** (2006.01); **C10N 60/14** (2006.01)

CPC (source: EP)

C10M 133/56 (2013.01); **C10M 137/10** (2013.01); **C10M 139/00** (2013.01); **C10M 141/12** (2013.01); **C10M 143/06** (2013.01); **C10M 143/12** (2013.01); **C10M 159/22** (2013.01); **C10M 159/24** (2013.01); **C10M 167/00** (2013.01); **C10M 2205/00** (2013.01); **C10M 2205/026** (2013.01); **C10M 2205/028** (2013.01); **C10M 2205/06** (2013.01); **C10M 2207/028** (2013.01); **C10M 2207/262** (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 2219/046** (2013.01); **C10M 2219/089** (2013.01); **C10M 2223/045** (2013.01); **C10M 2227/00** (2013.01); **C10M 2227/06** (2013.01); **C10M 2227/061** (2013.01); **C10M 2227/062** (2013.01); **C10M 2227/063** (2013.01); **C10M 2227/065** (2013.01); **C10M 2227/066** (2013.01); **C10N 2010/04** (2013.01); **C10N 2040/25** (2013.01); **C10N 2040/251** (2020.05); **C10N 2040/255** (2020.05); **C10N 2040/28** (2013.01)

Cited by

US8716202B2; CN111718778A; US2012149618A1; US8901050B2; DE102020008047A1; US8993496B2; US9150811B2; DE102020117671A1; WO2022002317A1; DE102020117671B4

Designated contracting state (EPC)

DE FR GB

DOCDB simple family (publication)

WO 9307242 A1 19930415; CA 2097828 A1 19930409; CA 2097828 C 20030708; DE 69223942 D1 19980212; DE 69223942 T2 19980618; EP 0562062 A1 19930929; EP 0562062 A4 19940427; EP 0562062 B1 19980107; JP 3231322 B2 20011119; JP H06505526 A 19940623; SG 48193 A1 19980417

DOCDB simple family (application)

US 9207141 W 19920825; CA 2097828 A 19920825; DE 69223942 T 19920825; EP 92918231 A 19920825; JP 50688293 A 19920825; SG 1996007816 A 19920825