

Title (en)

Lubricating compositions containing alkaline earth metal salts.

Title (de)

Erdalkalimetallsalze enthaltende Schmiermittelzusammensetzungen.

Title (fr)

Compositions lubrifiantes contenant des sels de métaux alcalins-terreux.

Publication

EP 0537840 A1 19930421 (EN)

Application

EP 92203077 A 19921005

Priority

EP 91309170 A 19911007

Abstract (en)

The invention provides a lubricating oil composition comprising a major proportion of a lubricating oil and a minor proportion of an alkaline earth metal salt selected from calcium and magnesium salts of a hydroxyalkyl sulphonic acid of the general formula: <CHEM> wherein each of R<1>, R<2>, R<3> and R4 independently represents a hydrogen atom, or a linear or branched alkyl group, subject to the total number of carbon atoms in R<1>, R<2>, R<3> and R4 taken together being in the range from 8 to 30; lubricating oil concentrates containing said salts; a process for preparing said composition; and the use of said salts as detergent additives in lubricating oil compositions.

IPC 1-7

C07C 309/08; **C10M 135/10**; **C10M 159/24**

IPC 8 full level

C10M 163/00 (2006.01); **C10M 135/10** (2006.01); **C10M 159/20** (2006.01); **C10M 159/24** (2006.01); **C10M 167/00** (2006.01); **C10N 10/04** (2006.01); **C10N 30/04** (2006.01); **C10N 40/25** (2006.01)

CPC (source: EP)

C10M 135/10 (2013.01); **C10M 137/10** (2013.01); **C10M 145/10** (2013.01); **C10M 159/20** (2013.01); **C10M 159/22** (2013.01); **C10M 159/24** (2013.01); **C10M 167/00** (2013.01); **C10M 2207/027** (2013.01); **C10M 2207/028** (2013.01); **C10M 2207/144** (2013.01); **C10M 2207/146** (2013.01); **C10M 2207/26** (2013.01); **C10M 2207/262** (2013.01); **C10M 2209/08** (2013.01); **C10M 2209/084** (2013.01); **C10M 2219/044** (2013.01); **C10M 2219/046** (2013.01); **C10M 2219/089** (2013.01); **C10M 2223/045** (2013.01); **C10N 2010/04** (2013.01); **C10N 2070/02** (2020.05)

Citation (search report)

- [A] EP 0377261 A2 19900711 - SHELL INT RESEARCH [NL]
- [X] US 5108631 A 19920428 - BARRER DANIEL E [US], et al
- [A] US 4137186 A 19790130 - SABOL ALBERT R

Cited by

GB2307916A; WO0015607A1

Designated contracting state (EPC)

BE DE FR GB IT NL

DOCDB simple family (publication)

EP 0537840 A1 19930421; **EP 0537840 B1 19960717**; CA 2079823 A1 19930408; DE 69212265 D1 19960822; DE 69212265 T2 19961212; JP H05239484 A 19930917

DOCDB simple family (application)

EP 92203077 A 19921005; CA 2079823 A 19921005; DE 69212265 T 19921005; JP 26601092 A 19921005