

Title (en)

PROCESS FOR PREPARING AN OVERBASED ADDITIVE CONTAINING A BORON DERIVATIVE, ADDITIVE PRODUCED BY SAID PROCESS AND LUBRICATING COMPOSITIONS CONTAINING SAID ADDITIVE

Publication

EP 0383359 A3 19901107 (FR)

Application

EP 90104404 A 19880316

Priority

- EP 90104404 A 19880316
- FR 8703646 A 19870317

Abstract (en)

[origin: EP0383359A2] Process for preparing a superalkalified additive containing inorganic boron by carbonation of a reaction mixture consisting of a detergent, an alkali metal or alkaline-earth metal and nitrogen- containing and oxygen-containing promoters in a diluent oil and a hydrocarbon solvent. The inorganic boron derivative is introduced into the reaction mixture before the carbonation reaction. The boron additive is employed as an additive with an antiwear effect in lubricants.

IPC 1-7

C10M 159/20; **C10M 159/22**; **C10M 159/24**; **C10M 163/00**

IPC 8 full level

C10M 159/20 (2006.01); **C10M 159/22** (2006.01); **C10M 159/24** (2006.01); **C10M 163/00** (2006.01)

CPC (source: EP)

C10M 133/56 (2013.01); **C10M 159/20** (2013.01); **C10M 159/22** (2013.01); **C10M 159/24** (2013.01); **C10M 163/00** (2013.01); **C10M 2207/028** (2013.01); **C10M 2207/26** (2013.01); **C10M 2207/262** (2013.01); **C10M 2215/28** (2013.01); **C10M 2219/046** (2013.01); **C10M 2219/089** (2013.01)

Citation (search report)

- [XD] US 3679584 A 19720725 - HELLMUTH WALTER W
- [X] GB 789820 A 19580129 - CONTINENTAL OIL CO

Cited by

WO9516011A1

Designated contracting state (EPC)

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