

Title (en)

PROCESS FOR PREPARING CALCIUM-BASED DETERGENT-DISPERSANT ADDITIVES HAVING A VERY HIGH ALKALINITY, AND PRODUCTS OBTAINED BY THIS PROCESS

Publication

EP 0133088 B1 19870520 (FR)

Application

EP 84401440 A 19840706

Priority

FR 8311494 A 19830711

Abstract (en)

[origin: ES8504240A1] Disclosed is a process for preparing very highly alkaline, calcium-based, detergent-dispersant additives for lubricating oils and products produced by such a process. The process includes the steps of reacting an alkylbenzenesulfonic acid, an alkylphenol, diluent oil, halogen ions and lime, removing water formed during the reaction, sulfurizing the resultant product in the presence of glycol and at least one additional alcohol having a boiling point in excess of about 155 DEG C., carbonating the sulfurized product, removing the glycol and heavy alcohol from the sulfurized, carbonated reaction product, and filtering to remove sediment and to obtain a reaction product comprising a highly-alkaline, calcium-based detergent-dispersant additive for lubricating oils.

IPC 1-7

C10M 159/24

IPC 8 full level

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

CPC (source: EP US)

C10M 159/24 (2013.01 - EP US)

Cited by

EP0347104A3; EP0347103A1; FR2584414A1; EP0211722A1; EP0662508A3; EP0259974A3; AU602343B2; US6417148B1; WO9746647A1

Designated contracting state (EPC)

AT BE CH DE FR IT LI NL SE

DOCDB simple family (publication)

EP 0133088 A1 19850213; EP 0133088 B1 19870520; AT E27298 T1 19870615; AU 3040084 A 19850117; AU 574082 B2 19880630; BR 8403428 A 19850625; CA 1217480 A 19870203; DE 3463785 D1 19870625; DK 163131 B 19920120; DK 163131 C 19920609; DK 338184 A 19850112; DK 338184 D0 19840710; ES 534163 A0 19850401; ES 8504240 A1 19850401; FR 2549080 A1 19850118; FR 2549080 B1 19860404; GB 2142928 A 19850130; GB 2142928 B 19870107; GB 8417478 D0 19840815; GR 81650 B 19841211; JP H0225397 B2 19900601; JP S6044595 A 19850309; MX 27008 A 19940331; PH 20608 A 19870224; PT 78881 A 19840801; PT 78881 B 19860602; SG 50187 G 19870828; US 4698170 A 19871006; ZA 845265 B 19850327

DOCDB simple family (application)

EP 84401440 A 19840706; AT 84401440 T 19840706; AU 3040084 A 19840709; BR 8403428 A 19840710; CA 458522 A 19840710; DE 3463785 T 19840706; DK 338184 A 19840710; ES 534163 A 19840710; FR 8311494 A 19830711; GB 8417478 A 19840709; GR 840175249 A 19840709; JP 14076584 A 19840709; MX 2700884 A 19840706; PH 30951 A 19840710; PT 7888184 A 19840710; SG 50187 A 19870606; US 62889584 A 19840709; ZA 845265 A 19840709