

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
6 January 2011 (06.01.2011)

(10) International Publication Number
WO 2011/002675 A3

PCT

(51) International Patent Classification:

C10M 129/00 (2006.01) *C10N 30/08* (2006.01)
C10M 159/22 (2006.01) *C10N 30/10* (2006.01)
C10M 159/24 (2006.01)

(21) International Application Number:

PCT/US2010/039945

(22) International Filing Date:

25 June 2010 (25.06.2010)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

12/496,510 1 July 2009 (01.07.2009) US

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(81) Designated States (unless otherwise indicated, for every

kind of national protection available): AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ,

CA, CH, CL, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PE, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every

kind of regional protection available): ARIPO (BW, GH, GM, KE, LR, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AL, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, SE, SI, SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Declarations under Rule 4.17:

— as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))

— as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii))

Published:

— with international search report (Art. 21(3))

— before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments (Rule 48.2(h))

(88) Date of publication of the international search report:

31 March 2011

(54) Title: LOW TEMPERATURE PERFORMANCE LUBRICATING OIL DETERGENTS AND METHOD OF MAKING THE SAME

(57) Abstract: The present invention is directed to a method for preparing an unsulfurized, carboxylate-containing additive for lubricating oils and the product produced by said method, wherein said method comprises a) neutralization of a mixture of at least two alkyl phenols using an alkaline earth base in the presence of a promoter, to produce a mixture of alkyl phenates, wherein the mixture of at least two alkyl phenols comprises at least a first alkyl phenol wherein the alkyl group is derived from an isomerized alpha olefin and a second alkyl phenol wherein the alkyl group is derived from a branched chain olefin; (b) carboxylation of the mixture of alkyl phenates obtained in step (a) using carbon dioxide under carboxylation conditions sufficient to convert at least 20 mole% of the starting alkyl phenols to alkyl salicylate; and (c) removal of at least about 10% of the starting mixture of at least two alkyl phenols from the product produced in step (b) to produce said additive.



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