

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
14 August 2003 (14.08.2003)

PCT

(10) International Publication Number
WO 03/066584 A1

(51) International Patent Classification⁷: **C07C 407/00**,
409/02, C07D 301/19, C07C 01/24

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(21) International Application Number: PCT/EP03/01259

(22) International Filing Date: 6 February 2003 (06.02.2003)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
02250791.7 6 February 2002 (06.02.2002) EP

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(81) Designated States (*national*): AE, AG, AL, AM, AT, AU,
AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU,
CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,
GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,
LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW,
MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE,
SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ,
VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (*regional*): ARIPO patent (GH, GM,
KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW),
Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE,
ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, SE, SI,
SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN,
GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— with international search report

*For two-letter codes and other abbreviations, refer to the "Guid-
ance Notes on Codes and Abbreviations" appearing at the begin-
ning of each regular issue of the PCT Gazette.*

(54) Title: PROCESS FOR PREPARING ALKYLARYL HYDROPEROXIDE CONTAINING PRODUCT

(57) Abstract: Process for preparing alkylaryl hydroperoxide containing product, which process comprises: (a) oxidation of an alkylaryl compound to obtain reaction product containing alkylaryl hydroperoxide, (b) contacting with water at least part of the alkylaryl hydroperoxide containing reaction product obtained in step (a) which reaction product contains less than 0.05 %wt of sodium, (c) separating the product of step (b) into a hydrocarbonaceous phase containing alkylaryl hydroperoxide and an aqueous phase, (d) optionally repeating process steps (b) and (c) one or more times, (e) contacting at least part of the hydrocarbonaceous phase containing alkylaryl hydroperoxide obtained in step (c) or (d) with olefin and catalyst to obtain alkylaryl hydroxide and oxirane compound, and (f) separating at least part of the oxirane compound from the alkylaryl hydroxide.



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