

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
9 June 2005 (09.06.2005)

PCT

(10) International Publication Number
WO 2005/051939 A1

(51) International Patent Classification⁷: **C07D 317/36**,
C07C 29/12

LANGE, Jean-Paul [BE/NL]; Badhuisweg 3, NL-1031
CM Amsterdam (NL).

(21) International Application Number:
PCT/EP2004/053085

(22) International Filing Date:
24 November 2004 (24.11.2004)

(25) Filing Language: English

(26) Publication Language: English

(81) Designated States (*unless otherwise indicated, for every kind of national protection available*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, 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, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(30) Priority Data:
03257450.1 26 November 2003 (26.11.2003) EP

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

(71) Applicant (*for all designated States except US*): **SHELL INTERNATIONALE RESEARCH MAATSCHAPPIJ B.V.** [NL/NL]; Carel van Bylandtlaan 30, NL-2596 HR The Hague (NL).

(72) Inventors; and

(75) Inventors/Applicants (*for US only*): **BECKERS, Johannes, Gerhardus, Joseph** [NL/NL]; Badhuisweg 3, NL-1031 CM Amsterdam (NL). **VAN DER HEIDE, Evert** [NL/NL]; Badhuisweg 3, NL-1031 CM Amsterdam (NL). **VAN KESSEL, Gerardus, Martinus, Maria** [NL/NL]; Badhuisweg 3, NL-1031 CM Amsterdam (NL).

Published:

— with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: PROCESS FOR THE PREPARATION OF PROPYLENE CARBONATE

(57) Abstract: A process comprising contacting a propylene oxide feed with carbon dioxide in the presence of a suitable catalyst to obtain a reaction mixture comprising propylene carbonate in which process the propylene oxide feed comprises at least 50 ppmw of acids and/or carbonyls.



WO 2005/051939 A1