200406346?

29 OCT 2004

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

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
13 November 2003 (13.11.2003)

PCT

(10) International Publication Number
WO 03/093255 A1

(51) International Patent Classification[7]: C07D 301/12

(21) International Application Number: PCT/EP03/04442

(22) International Filing Date: 29 April 2003 (29.04.2003)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
02009869.5 2 May 2002 (02.05.2002) EP

(71) Applicants: **DEGUSSA AG** [DE/DE]; Bennigsenplatz 1, 40474 Düsseldorf (DE). **UHDE GMBH** [DE/DE]; Friedrich-Uhde-Strasse 15, 44141 Dortmund (DE).

(72) Inventors: **BERGES, José**; Kranzbergring 29, 61137 Schöneck (DE). **BRASSE, Claudia**; Elsa-Brandström-Strasse 5d, 63452 Hanau (DE). **EICKHOFF, Hubertus**; Julius-Pfister-Ring 12, 63755 Alzenau (DE). **HAAS, Thomas**; Lersnerstrasse 30a, 60322 Frankfurt (DE). **HOFEN, Willi**; Südring 54, 63517 Rodenbach (DE). **KAMPEIS, Percy**; Schwerter Strasse 317, 44287 Dortmund (DE). **MOROFF, Gerald**; Bergstrasse 15, 65835 Liederbach (DE). **POHL, Werner**; Henningweg 34, 45149 Essen (DE). **STOCHNIOL, Guido**; Weinbergstrasse 23b, 63571 Gelnhausen (DE). **THIELE, Georg**; Julius-Leber-Strasse 6, 63450 Hanau (DE). **ULLRICH, Norbert**; Auf der Litten 30, 45139 Essen (DE). **WOELL, Wolfgang**; Backesweg 28a, 63477 Maintal (DE).

(74) Agent: **STERNAGEL, FLEISCHER, GODEMEYER & PARTNER**; Braunsberger Feld 29, 51429 Bergisch Gladbach (DE).

(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, NI, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, 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, RO, 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 "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*

*162162*

*ACTION*

WO 03/093255 A1

(54) Title: PROCESS FOR THE EPOXIDATION OF OLEFINS

(57) Abstract: The present invention relates to a process for the epoxidation of olefins by i) reacting an olefin with hydrogen peroxide in presence of an epoxidation catalyst and an alcoholic solvent; ii) separating product olefin oxide and unreacted olefin from the reaction product of step i); iii) recovering a stream comprising the alcoholic solvent,characterized by iv) subjecting the recovered stream of step iii) to hydrogenation.