9905797-8 Ipio

PCT WORLD INTELLECTUAL PROPERTY ORGANIZATION
International Bureau

INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification 6 : C07D 301/10 — A1

(11) International Publication Number: **WO 98/58920**

(43) International Publication Date: 30 December 1998 (30.12.98)

(21) International Application Number: PCT/EP98/02957

(22) International Filing Date: 20 May 1998 (20.05.98)

(30) Priority Data:
08/880,896 23 June 1997 (23.06.97) US

(71) Applicant *(for all designated States except MN)*: ARCO CHEMICAL TECHNOLOGY, L.P. [US/US]; Two Greenville Crossing, Suite 238, 4001 Kennett Pike, Greenville, DE 19807 (US).

(71) Applicant *(for MN only)*: ARCO CHEMIE TECHNOLOGIE NEDERLAND B.V. [NL/NL]; (Theemsweg 14, 3197 KM Botlek Rotterdam), P.O. Box 7195, NL–3000 HD Rotterdam (NL).

(72) Inventors: COOKER, Bernard; 108 Grubb Road, Malvern, PA 19382 (US). GAFFNEY, Anne, M.; 805 Copeland School Road, West Chester, PA 19380 (US). JEWSON, Jennifer, D.; 844 Maple Glen Circle, Pottstown, PA 19464 (US). KAHN, Andrew, P.; 5109 Brandywine Road, Eagleville, PA 19403 (US). PITCHAI, Rangasamy; 207 Fowler Drive, West Chester, PA 19382 (US).

(74) Agents: SMAGGASGALE, Gillian, Helen et al.; Mathys & Squire, 100 Gray's Inn Road, London WC1X 8AL (GB).

(81) Designated States: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, GW, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG).

Published
With international search report.

(54) Title: EPOXIDATION PROCESS USING SUPPORTED SILVER CATALYSTS PRETREATED WITH ORGANIC CHLORIDE

(57) Abstract

A propylene epoxidation process wherein a supported silver catalyst is utilized may be operated at high efficiency even in the absence of any organic chloride in the feedstream, provided the catalyst is first contacted at an elevated temperature with a treatment stream comprised of an organic chloride and molecular oxygen.