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| <b>(51) International Patent Classification <sup>6</sup> :</b><br><b>C07D 301/10, B01J 23/66, 27/10</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | <b>A1</b> | <b>(11) International Publication Number:</b> <b>WO 98/58921</b><br><b>(43) International Publication Date:</b> 30 December 1998 (30.12.98)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <p><b>(21) International Application Number:</b> PCT/EP98/02959</p> <p><b>(22) International Filing Date:</b> 20 May 1998 (20.05.98)</p> <p><b>(30) Priority Data:</b><br/>         08/880,905                      23 June 1997 (23.06.97)                      US</p> <p><b>(71) Applicant (for all designated States except MN):</b> ARCO CHEMICAL TECHNOLOGY, L.P. [US/US]; Two Greenville Crossing, Suite 238, 4001 Kennett Pike, Greenville, DE 19807 (US).</p> <p><b>(71) Applicant (for MN only):</b> ARCO CHEMIE TECHNOLOGIE NEDERLAND B.V. [NL/NL]; Theemsweg 14, P.O. Box 7195, NL-3000 HD Rotterdam (NL).</p> <p><b>(72) Inventors:</b> 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). ONIMUS, Wilson, H.; 154 Maple Avenue, Holmes, PA 19043 (US).</p> <p><b>(74) Agents:</b> SMAGGASGALE, Gillian, Helen et al.; Mathys &amp; Squire, 100 Gray's Inn Road, London WC1X 8AL (GB).</p> |           | <p><b>(81) Designated States:</b> 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).</p> <p><b>Published</b><br/> <i>With international search report.</i></p> |
| <p><b>(54) Title:</b> PROPYLENE EPOXIDATION USING CHLORIDE-CONTAINING SILVER CATALYSTS</p> <p><b>(57) Abstract</b></p> <p>Direct oxidation of propylene to propylene oxide is accomplished using alkaline earth metal compound-supported silver catalysts containing an inorganic chloride promoter and a potassium promoter derived from a potassium salt containing a nitrogen oxyanion or precursor thereof.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |