

(19) World Intellectual Property Organization
International Bureau



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

PCT

(10) International Publication Number
WO 03/066555 A1

- (51) International Patent Classification⁷: C07C 39/15, 37/14, B01J 27/053
- (21) International Application Number: PCT/US03/03230
- (22) International Filing Date: 4 February 2003 (04.02.2003)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
2002103668 8 February 2002 (08.02.2002) RU
10/357,008 3 February 2003 (03.02.2003) US
- (71) Applicant: GENERAL ELECTRIC COMPANY
[US/US]; 1 River Road, Schenectady, NY 12345 (US).
- (72) Inventors: SHAVANDIM, Yury, Alekseevich; ul. Zvezdnaya d. 8, kv. 78, Saint Petersburg, 196193 (RU). DYKMAN, Arkady, Samulovich; pr. Grazhdanskii, 13-20, St.Petersburg, 195220 (RU). KRASY, Boris Vasil'evich; ul. Tambasova, 8, Korpus, 1-204, St.Petersburg, 196193 (RU). PINSON, Viktor Vladimirovich; pr. Primorskii, 41-10, St.Petersburg, 197183 (RU). YAVSHITS, Genrikh Petrovich; ul. Shishkova, 20-14, St.Petersburg, 196605 (RU). ZINENKOV, Andrey Vladimirovich; pr. Gagarina, 14, Korpus, 5-103, St.Petersburg, 196211 (RU). FULLMER, John, W.; 78 Park Ridge Drive, Mount Vernon, IN 47620 (US).
- (74) Agents: WINTER, Catherine, J. et al.; General Electric Company, 3135 Easton Turnpike W3C, Fairfield, CT 06828 (US).
- (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, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, 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 "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: PROCESS AND CATALYST FOR PRODUCING P-CUMYLPHENOL

(57) Abstract: The specification provides a method for producing *p*-cumylphenol phenol by reacting phenol with α -methylstyrene in the presence of a highly efficient heterogeneous aluminum zirconium catalyst.



WO 03/066555 A1