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(21) International Application Number: PCT/US99/03010 (22) International Filing Date: 12 February 1999 (12.02.99) (30) Priority Data: 60/074,691 13 February 1998 (13.02.98) US (71) Applicant (for all designated States except US): EXXON RESEARCH AND ENGINEERING COMPANY [US/US]; 180 Park Avenue, P.O. Box 390, Florham Park, NJ 07932-0390 (US). (72) Inventors; and (75) Inventors/Applicants (for US only): RILEY, Kenneth, Lloyd [US/US]; 1289 Rodney Drive, Baton Rouge, LA 70808 (US). MURPHY, William, John [CA/US]; 16445 Coliseum Avenue, Baton Rouge, LA 70816 (US). CODY, Ian, Alfred [CA/US]; 7942C Wrenwood Boulevard, Baton Rouge, LA 70809 (US). SOLED, Stuart, Leon [US/US]; 21 Cooks Cross Road, Pittstown, NJ 08867 (US). McVICKER, Gary, Brice [US/US]; 65 Main Street, Califon, NJ 07830 (US). MISEO, Sabato [US/US]; 770 County Road 579, Pittstown, NJ 08867 (US).		(74) Agents: SCUORZO, Linda, M. et al.; Exxon Research and Engineering Company, P.O. Box 390, Florham Park, NJ 07932-0390 (US). (81) Designated States: AU, CA, JP, SG, US, European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE). Published <i>With international search report.</i>
(54) Title: IMPROVED WAX HYDROISOMERIZATION PROCESS		
(57) Abstract Waxy feeds are treated under hydroisomerization conditions to produce good yields of an isomerate product of high VI by using a silica-alumina based catalyst in which the silica-alumina has a pore volume less of 0.99 ml/gm (H ₂ O), an alumina content in the range of 35 to 55 wt.% and an isoelectric point in the range of 4.5 to 6.5. A lube fraction of the isomerate is dewaxed to provide a lube basestock of high VI. The silica-alumina may be modified with a rare earth oxide or yttria or boria or magnesia in which instance the modified catalyst has an isoelectric point greater than but no more than 2 points greater than the base silica alumina.		