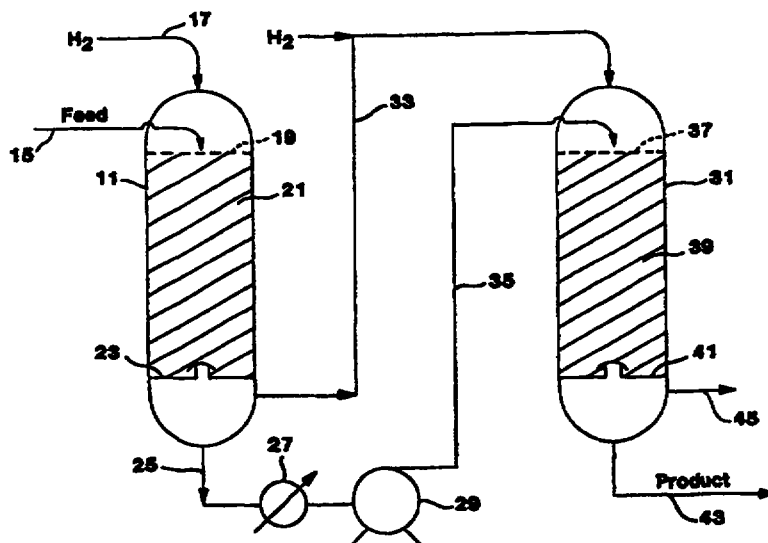




INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification ⁶ : C10G 71/00, 35/06, C07C 5/00, 5/13, 5/22		A1	(11) International Publication Number: WO 99/41336
			(43) International Publication Date: 19 August 1999 (19.08.99)
(21) International Application Number: PCT/US99/03009 (22) International Filing Date: 12 February 1999 (12.02.99) (30) Priority Data: 60/074,650 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): LETA, Daniel, Paul [US/US]; 15 Rustic Trail, Flemington, NJ 08822 (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). HANTZER, Sylvain [US/US]; 37620 Seven Oaks Avenue, Prairieville, LA 70769 (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 With international search report.

(54) Title: PRODUCTION OF LUBRICATING OILS BY A COMBINATION CATALYST SYSTEM



(57) Abstract

A process for preparing a lubricating oil basestock (43) having good low temperature properties is disclosed. The process includes contacting a feed (15) with a first amorphous isomerization catalyst (21) having a pore volume less than 0.99 ml/gm (H₂O), an alumina content in the range of 30-50 % based on the isomerization catalyst and an isoelectric point in the range of 4.5 to 6.5. The isomerization step is followed by a catalytic dewaxing step using an intermediate pore crystalline molecular sieve (39) to produce a product (43). A further embodiment includes a first amorphous isomerization catalyst having a pore volume less than 0.99 ml/gm (H₂O), an alumina content in the range of 30-50 % based on the isomerization catalyst wherein the silica is modified with a rare earth oxide, yttria, boria or magnesia and an isoelectric point greater than but no more than 2 points greater than that of the base silica alumina.