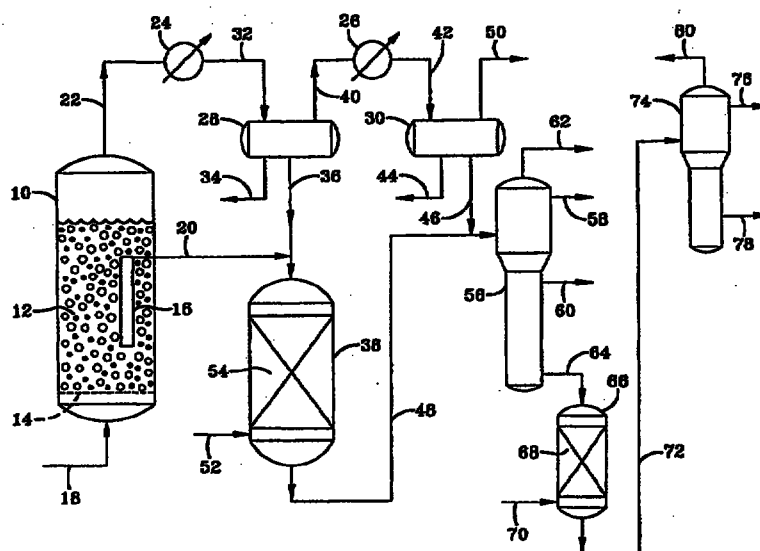




## INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

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| (21) International Application Number: PCT/US99/19533<br>(22) International Filing Date: 27 August 1999 (27.08.99)<br>(30) Priority Data:<br>09/148,381                      4 September 1998 (04.09.98)                      US<br>(71) Applicant: EXXON RESEARCH AND ENGINEERING COMPANY [US/US]; 180 Park Avenue, P.O. Box 390, Florham Park, NJ 07932-0390 (US).<br>(72) Inventors: CLARK, Janet, Renee; 10324 Springdale, Baton Rouge, LA 70810 (US). WITTENBRINK, Robert, Jay; 6018 Riverchase Trail, Kingwood, TX 77345 (US). RYAN, Daniel, Francis; 6211 Gabriel Oaks Drive, Baton Rouge, LA 70820 (US). SCHWEIZER, Albert, Edward; 2069 West Magna Carta Place, Baton Rouge, LA 70815 (US).<br>(74) Agents: SIMON, Jay et al.; Exxon Research and Engineering Company, P.O. Box 390, Florham Park, NJ 07932-0390 (US). |           | (81) Designated States: AU, BR, CA, JP, NO, SG, European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE).<br><br><b>Published</b><br><i>Without international search report and to be republished upon receipt of that report.</i> |

(54) Title: ISOPARAFFINIC BASE STOCKS BY DEWAXING FISCHER-TROPSCH WAX HYDROISOMERATE OVER Pt/H-MORDENITE



## (57) Abstract

A high VI and low pour point lubricant base stock is made by hydro-isomerizing a high purity, waxy, paraffinic Fischer-Tropsch synthesized hydrocarbon fraction having an initial boiling point in the range of 650-750 °F, followed by catalytically dewaxing the hydro-isomcrate using a dewaxing catalyst comprising a catalytic platinum component and an H-mordenite component. The hydrocarbon fraction is preferably synthesized by a slurry Fischer-Tropsch using a catalyst containing a catalytic cobalt component. This combination of the process, high purity, waxy paraffinic feed and the Pt/H-mordenite dewaxing catalyst, produce a relatively high yield of premium lubricant base stock.