



PCT

WORLD INTELLECTUAL PROPERTY ORGANIZATION
International Bureau

INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

| | | |
|--|----|---|
| (51) International Patent Classification ⁴ : C07C 1/04, B01J 29/04 | AI | (11) International Publication Number: WO 86/ 00297 |
| | | (43) International Publication Date: 16 January 1986 (16.01.86) |

(21) International Application Number: PCT/US85/01208

(22) International Filing Date: 26 June 1985 (26.06.85)

(31) Priority Application Number: 625,373

(32) Priority Date: 27 June 1984 (27.06.84)

(33) Priority Country: US

(71) Applicant: UNION CARBIDE CORPORATION (US); 39 Old Ridgebury Road, Danbury, CT 06817 (US).

(72) Inventors: COUGHLIN, Peter, Kevin ; 1444 Pine Brook Ct., Yorktown Heights, NY 10598 (US); RA-BO, Jule, Anthony ; 19 Windmill Road, Armonk, NY 10504 (US).

(74) Agent: FRITSCHLER, Alvin, H.; Union Carbide Corporation, Law Department - E134, 39 Old Ridgebury Road, Danbury, CT 06817 (US).

(81) Designated States: AT (European patent), AU, BE (European patent), BR, CH (European patent), DE (European patent), FR (European patent), GB (European patent), IT (European patent), JP, LU (European patent), NL (European patent), SE (European patent)

Published

With international search report

A.D.I.P. 27 FEB 1986

AUSTRALIAN

20 JAN 1986

PATENT OFFICE

(54) Title: ENHANCED CONVERSION OF SYNGAS TO LIQUID MOTOR FUELS

(57) Abstract

Synthesis gas comprising carbon monoxide and hydrogen is converted to hydrocarbons suitable for use as liquid motor fuels by contact with a dual catalyst system capable of enhancing the selectivity of said conversion to motor fuel range hydrocarbons and the quality of the resulting motor fuel product. The catalyst composition employs a Fischer-Tropsch catalyst, together with a co-catalyst support component comprising SAPO (silicoaluminophosphate) non-zeolitic molecular sieve catalyst.