200002538-7 IPOS

PCT

WORLD INTELLECTUAL PROPERTY ORGANIZATION
International Bureau

INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification 6 : C10G 45/04, 45/06, 69/02

A1

(11) International Publication Number: WO 99/29809

(43) International Publication Date: 17 June 1999 (17.06.99)

(21) International Application Number: PCT/US98/23664

(22) International Filing Date: 6 November 1998 (06.11.98)

(30) Priority Data:
08/986,781 8 December 1997 (08.12.97) US

(81) Designated States: CA, JP, KR, SG, 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.

(71) Applicant: MOBIL OIL CORPORATION [US/US]; 3225 Gallows Road, Fairfax, VA 22037 (US).

(72) Inventor: CHOU, Tai-Sheng; 4 Jordan Court, Cherry Hill, NJ 08003 (US).

(74) Agents: PRATER, Penny, L. et al.; Mobil Oil Corporation, 3225 Gallows Road, Fairfax, VA 22037 (US).

1 PD
1 applⁿ.
1 Inv.
IPC : C10G 45/04
(IPER) C10G 45/06
C10G 69/02

(54) Title: AN IMPROVED PROCESS SCHEME FOR PROCESSING SOUR FEED IN MIDW

(57) Abstract

This invention is directed to an improved process scheme to process sour feed in the reaction section of the process unit, including isomerization dewaxing with zeolite beta. The instant invention employs countercurrent flow in the fixed bed of the MIDW (Mobil Isomerization Dewaxing) reactor (the reactor in which isomerization dewaxing occurs) with recycle gas being the gas stream in the MIDW bed. With this arrangement hydrodesulfurization (HDS) and MIDW occur in an integrated process.