



INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification⁶:

C10G 73/06, 73/32

A1

(11) International Publication Number:

WO 97/39085

(43) International Publication Date:

23 October 1997 (23.10.97)

(21) International Application Number: PCT/US97/05472

(22) International Filing Date: 2 April 1997 (02.04.97)

(30) Priority Data:

08/633,265

16 April 1996 (16.04.96)

US

(71) Applicants: MOBIL OIL CORPORATION [US/US]; 3225 Gallows Road, Fairfax, VA 22037 (US). W.R. GRACE & CO.-CONN. [US/US]; 7500 Grace Drive, Columbia, MD 21044 (US).

(72) Inventors: KLOCZEWSKI, Harold, A.; 8161 Orchard Point Road, Pasadena, MD 21122 (US). SULPIZIO, Thomas, E.; 1329 Eastbrook Drive, Lompoc, CA 93436 (US). WHITE, Lloyd, Steven; 5070 Summer Day Drive, Columbia, MD 21044 (US). MENON, Krishna, S.; 3237 Pine Bluffs Drive, Ellicott City, MD 21042 (US). GOULD, Ronald, Michael; 223 Champion Way, Sewell, NJ 08080 (US).

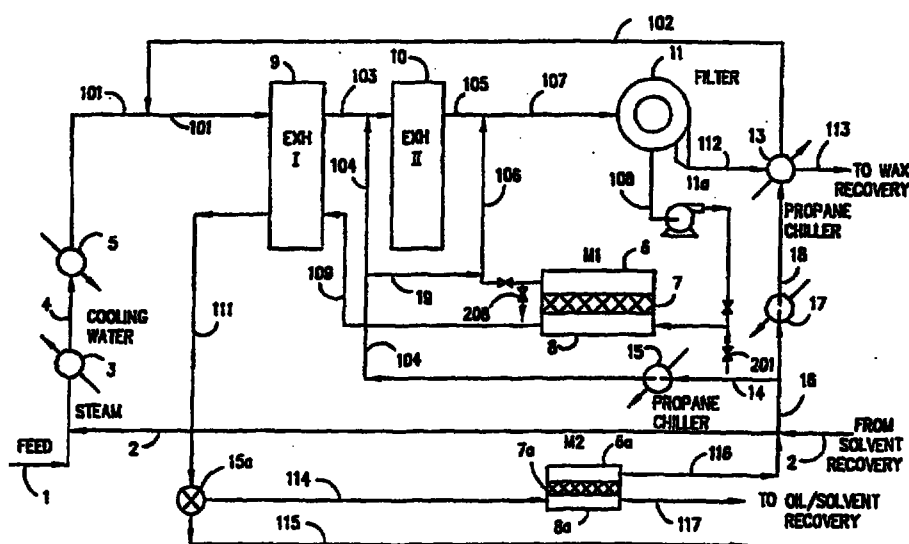
(74) Agents: STEINBERG, Thomas, W. et al.; Mobil Oil Corporation, 3225 Gallows Road, Fairfax, VA 22037 (US).

(81) Designated States: AL, AU, BA, BB, BG, BR, BY, CA, CN, CZ, EE, GE, HU, IL, IS, JP, KR, LC, LK, LR, LT, LV, MG, MK, MN, MX, NO, NZ, PL, RO, SG, SI, SK, TR, TT, UA, UZ, VN, ARIPO patent (GH, KE, LS, MW, SD, SZ, UG), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG).

Published

With international search report.

(54) Title: LUBRICATING OIL DEWAXING WITH MEMBRANE SEPARATION



(57) Abstract

A waxy oil feed is introduced through line (1) and is mixed with MEK/toluene solvent fed through line (2) and is fed to heat exchanger (3) to dissolve all crystals. The waxy feed in line (101) is mixed directly with solvent and fed through line (102) to cool the feed. The cooled waxy oil feed is further cooled by indirect heat exchange in heat exchanger (9).