



(43) International Publication Date
26 January 2006 (26.01.2006)

PCT

(10) International Publication Number
WO 2006/009474 A2

(51) International Patent Classification: Not classified

(21) International Application Number: PCT/NZ2005/000176

(22) International Filing Date: 20 July 2005 (20.07.2005)

(25) Filing Language: English

(26) **Publication Language:** English

(30) Priority Data:
534302 23 July 2004 (23.07.2004) NZ

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(81) **Designated States** (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM,

AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,
KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA,
MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ,
OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL,
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VN, YU, ZA, ZM, ZW.

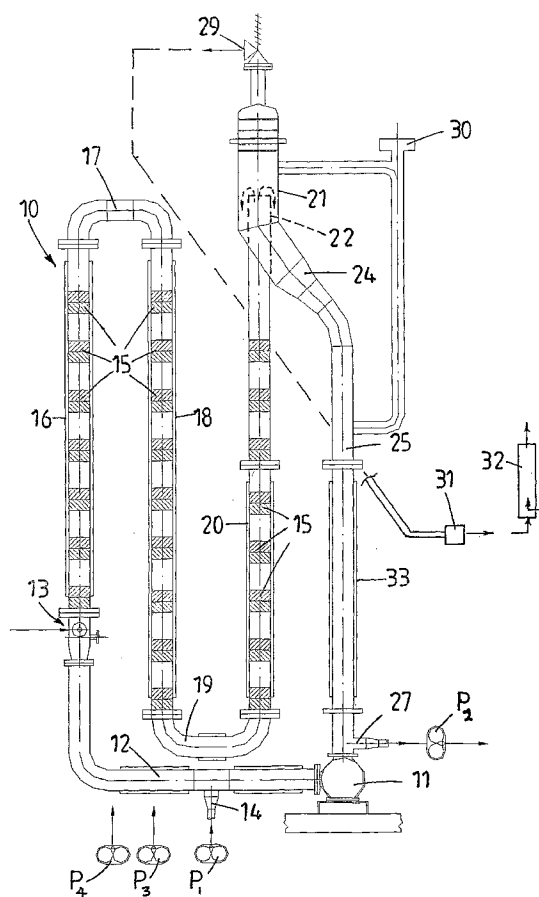
(84) Designated States (*unless otherwise indicated, for every kind of regional protection available*): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GO, GW, ML, MR, NE, SN, TD, TG).

Published:

- *without international search report and to be republished upon receipt of that report*

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: PROCESS AND APPARATUS FOR MODIFYING BITUMEN



(57) Abstract: Apparatus for modifying bitumen. The apparatus includes a multi-section loop tube reactor. A circulation pump (11) circulates bitumen in the reactor (10) and air is introduced at air injection point (13). Bitumen is introduced into the reactor (10) at inlet (14) by variable speed pump P₁. A plurality of mixers (15) are located between the air injection point (13) and a head section (24) beyond which is an outlet (27) where modified bitumen is drawn off by variable speed pump P₂.