

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
15 May 2003 (15.05.2003)

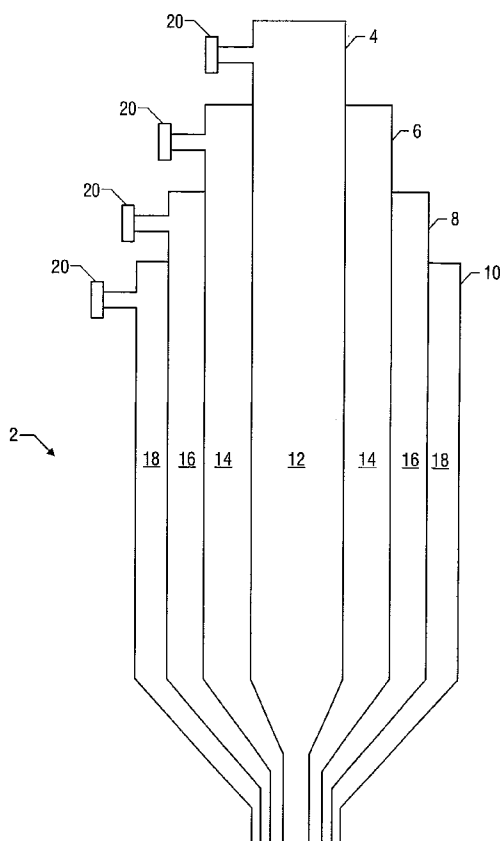
PCT

(10) International Publication Number
WO 03/040028 A1

- (51) International Patent Classification⁷: **C01B 3/24**, 3/26
- (21) International Application Number: PCT/US02/25017
- (22) International Filing Date: 6 August 2002 (06.08.2002)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
10/002,510 2 November 2001 (02.11.2001) US
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- (81) Designated States (*national*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (*regional*): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

[Continued on next page]

(54) Title: PROCESS FOR THE GASIFICATION OF HEAVY OIL BACKGROUND OF THE INVENTION



(57) Abstract: A process whereby a high viscosity hydrocarbonaceous material is fed to a gasifier for conversion to synthesis gas. The feedstock, steam oxygen, and recycled gasification system water are all fed into the gasifier through a four stream feed injector (2), which includes a central cylindrical conduct (4) and second (6), third (8) and outer (10) cylindrical conduits radially spaced from each other. This setup provides a center passage (12), and a first (14), a second (16), and an outer (18) annular coaxial concentric annular passage. The upstream ends of each conduit have a flanged inlet nozzle (20) for the introduction of material. The feedstock in this design is sandwiched between two oxygen streams so as to provide better conversion for the exceptionally heavy feed. The further stream down the central layout (12) of the feed injector (2) provides the flow path for the recycled water.

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Published:

— with international search report

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