

CORRECTED VERSION

(19) World Intellectual Property Organization
International Bureau(43) International Publication Date
22 June 2006 (22.06.2006)

PCT

(10) International Publication Number
WO 2006/065459 A1

(51) International Patent Classification:

C10L 3/10 (2006.01) *C10G 53/08* (2006.01)
B01D 53/86 (2006.01)

(21) International Application Number:

PCT/US2005/042179

(22) International Filing Date:

15 November 2005 (15.11.2005)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

11/016,263 17 December 2004 (17.12.2004) US

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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, KN, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, LY, 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, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, 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, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

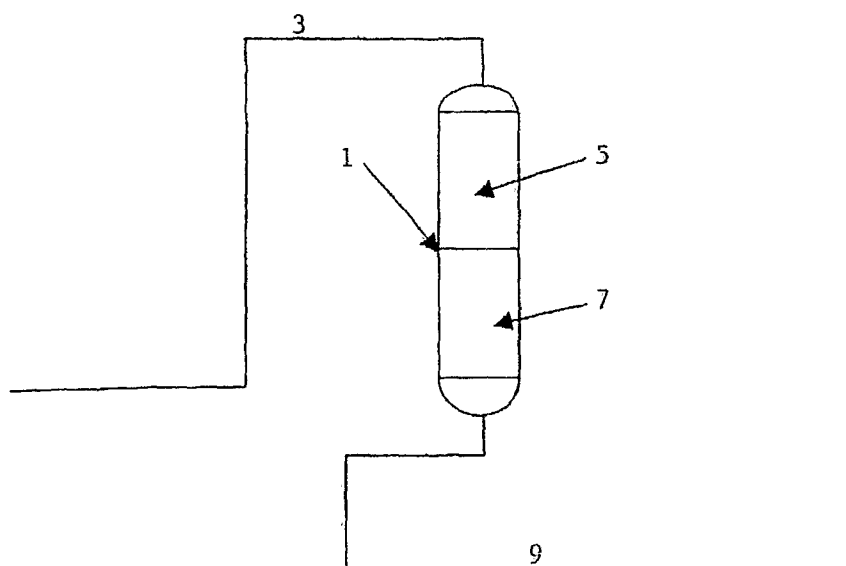
— with international search report

(48) Date of publication of this corrected version:

26 October 2006

[Continued on next page]

(54) Title: SYSTEMS AND PROCESSES FOR REDUCING THE SULFUR CONTENT OF HYDROCARBON STREAMS



(57) Abstract: Systems and processes for removing a first sulfur compound from a hydrocarbon stream. The systems and process utilize at least one reaction vessel incorporating a hydrolysis catalyst suitable for hydrolyzing the first sulfur compound to a second sulfur compound. The reaction vessel also incorporates a sorbent material suitable for absorbing the second sulfur compound. Following hydrolysis of the first sulfur compound to the second sulfur compound and absorption of the second sulfur compound, a hydrocarbon-containing stream having a reduced sulfur content is produced. The hydrolysis catalyst and sorbent material may be provided in separate zones within

the reaction vessel or provided as a mixture in a single zone. The hydrocarbon-containing stream having a reduced sulfur content is suitable for a variety of uses, including as a feedstreams for hydrogen plants, process gas streams for power generation plants, or for other uses for hydrocarbon-containing stream having reduced sulfur content.

WO 2006/065459 A1

**(15) Information about Correction:**

see PCT Gazette No. 43/2006 of 26 October 2006

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