(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

CORRECTED VERSION

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
20 June 2002 (20.06.2002)

PCT

(10) International Publication Number
WO 02/049128 A3

(51) International Patent Classification[7]: B01J 8/00

(21) International Application Number: PCT/US01/51148

(22) International Filing Date:
2 November 2001 (02.11.2001)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/246,005 3 November 2000 (03.11.2000) US
10/015,845 1 November 2001 (01.11.2001) US

(71) Applicant *(for all designated States except US)*: **IDATECH, LLC** [US/US]; P.O. Box 5339, Bend, OR 97708-5339 (US).

(72) Inventor; and
(75) Inventor/Applicant *(for US only)*: **EDLUND, David, J.** [US/US]; 1698 Davenport, Bend, OR 97701 (US).

(74) Agent: **D'ASCENZO, David, S.**; Kolisch, Hartwell, Dickinson, McCormack & Heuser, P.C., Suite 200, 520 S.W. Yamhill Street, Portland, OR 97204 (US).

(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, 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, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW.

(84) Designated States *(regional)*: ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:
— *with international search report*

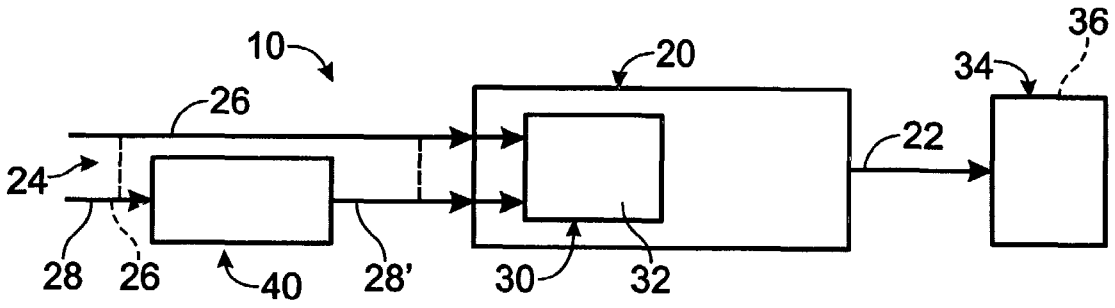
(88) Date of publication of the international search report:
29 August 2002

(48) Date of publication of this corrected version:
20 February 2003

(15) Information about Correction:
see PCT Gazette No. 08/2003 of 20 February 2003, Section II

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: SULFUR-ABSORBENT BED AND FUEL PROCESSING ASSEMBLY INCORPORATING THE SAME



(57) Abstract: A fuel processing system (10) that includes an improved sulfur-removal assembly (40). The fuel processing system (10) includes at least one fuel processor (20) adapted to produce hydrogen gas (22) from water and a carbon-containing feedstock (24), such as at least one hydrocarbon or alcohol. The sulfur-removal assembly (40) includes a sulfur-absorbent bed that contains a sulfur-absorbent material, such as a low-temperature shift catalyst, that is adapted to remove, or reduce the concentration of, sulfur-compounds from the carbon-containing feedstock (24).

WO 02/049128 A3