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

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
20 July 2006 (20.07.2006)

PCT

(10) International Publication Number
WO 2006/076431 A2

(51) International Patent Classification:
B01D 50/00 (2006.01)

(21) International Application Number:
PCT/US2006/000981

(22) International Filing Date: 11 January 2006 (11.01.2006)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
11/035,378 13 January 2005 (13.01.2005) US

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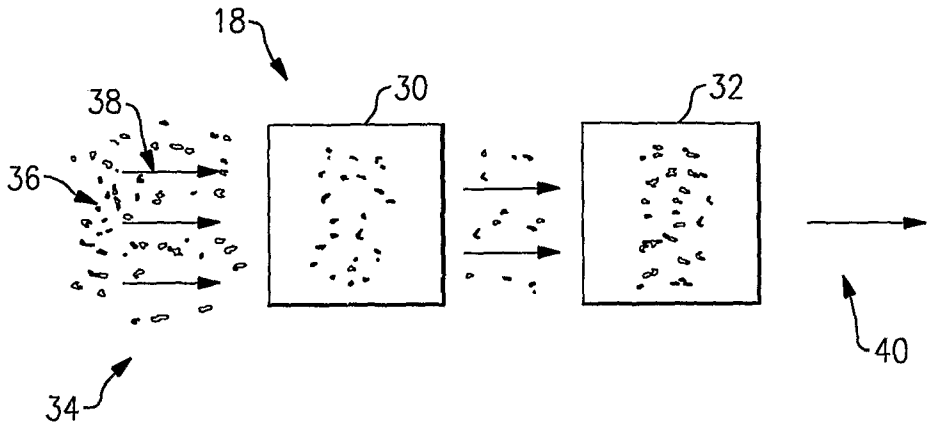
(81) Designated States *(unless otherwise indicated, for every kind of national protection available)*: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LC, 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:
— *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:** GAS TREATMENT ADSORPTION-OXIDATION SYSTEM



(57) **Abstract:** A gas treatment module and method includes a first gas purifier and a second gas purifier that cooperate to control a concentration of contaminants in an outgoing portion of a gas stream when the concentration of the contaminants in an incoming portion of the gas stream temporarily exceeds a threshold concentration. One example gas treatment module includes an adsorbent media that temporarily retains at least a portion of the contaminants in the gas stream when the concentration is greater than or equal to the threshold concentration. The adsorbent media later releases the retained contaminants, either to an outgoing portion of the gas stream or to a photocatalyst, when the concentration is less than the threshold concentration. One example method of gas treatment includes controlling the concentration of contaminants in the outgoing portion of the gas stream when the concentration of the contaminants in the incoming portion of the gas stream temporarily exceeds the threshold concentration.

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