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(21) International Application Number: PCT/US98/21384 (22) International Filing Date: 6 October 1998 (06.10.98) (30) Priority Data: 60/062,043 15 October 1997 (15.10.97) US (71) Applicant: SAES PURE GAS, INC. [US/US]; 4175 Santa Fe Road, San Luis Obispo, CA 93401 (US). (72) Inventors: SUCCI, Marco; Via Lo Monaco, 9, I-20131 Milano (IT). VERGANI, Giorgio; Via della Birona, 27, I-20052 Monza (IT). LORIMER, D'Arcy, H.; 230 Houston Way, Pismo Beach, CA 93449 (US). (74) Agent: HICKMAN, Paul, L.; Hickman & Martine, LLP, P.O. Box 52037, Palo Alto, CA 94303-0746 (US).		(81) Designated States: CN, JP, KR, RU, SG, European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE). Published With international search report. Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.

(54) Title: GAS PURIFICATION SYSTEM WITH SAFETY DEVICE AND METHOD FOR PURIFYING GASES

(57) Abstract

A gas purification system (10) with safety device includes a gas purification unit (12) and one or more safety devices (20a/20b). The gas purification unit includes an enclosure (16) and a purification material disposed within the enclosure that exhibits an exothermic reaction when exposed to certain gas contaminants which may be present within said enclosure. The gas purification unit has an inlet (18) coupled to an unpurified gas input line (24) and an outlet (20) coupled to a purified gas output line (26). The safety device is coupled to one of said unpurified gas input line and said purified output line, and develops an alarm signal (52/58) when gas contaminants within said safety device that are similar to said certain gas contaminants within said gas purification unit are above a given concentration level over a period of time.

