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(21) International Application Number: PCT/IB99/01414 (22) International Filing Date: 13 July 1999 (13.07.99) (30) Priority Data: 09/114,760 13 July 1998 (13.07.98) US (71) Applicant: L'AIR LIQUIDE, SOCIETE ANONYME POUR L'ETUDE ET L'EXPLOITATION DES PROCEDES GEORGES CLAUDE [FR/FR]; 75, quai d'Orsay, F-75321 Paris Cedex 07 (FR). (72) Inventors: McANDREW, James, J., F.; 15425 Purley Court, Lockport, IL 60441 (US). INMAN, Ronald, S.; 8714 W. 45th Place, Lyons, IL 60534 (US).		(81) Designated States: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZA, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SL, SZ, 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), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG). 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: IN-LINE CELL FOR ABSORPTION SPECTROSCOPY (57) Abstract Provided is a novel in-line cell useful in absorption spectroscopy. The cell (200) includes a sample region (202), in a light entry port (214) and a light exit port being the same or separate ports. Each port is in communication with the sample region and contains a light transmissive window (218). A mirror (208) having a light reflective surface faces the sample region, and a heater (222) effective to heat the light transmissive window in the light entry port and/or said light exit port is provided. The cell can be used to determine the concentration of molecular gas impurities in a sample. Particular applicability is found in semiconductor manufacturing in a semiconductor processing tool.		