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<p>(21) International Application Number: PCT/IB97/00943 (22) International Filing Date: 20 May 1997 (20.05.97) (30) Priority Data: 08/650,633 20 May 1996 (20.05.96) US 08/650,634 20 May 1996 (20.05.96) US (71) Applicant: ADVANCED TECHNOLOGY MATERIALS, INC. [US/US]; 7 Commerce Drive, Danbury, CT 06810 (US). (72) Inventors: TOM, Glenn, M.; 2 Powder Horn Lane, New Milford, CT 06776 (US). OLANDER, W., Karl; 2710 North Vincent Street, Tampa, FL 33607 (US). McMANUS, James, V.; 25 Padanaram Road, Danbury, CT 06811 (US). (74) Agent: HULTQUIST, Steven, J.; Intellectual Property/Technology Law, P.O. Box 14329, Research Triangle Park, NC 27709 (US).</p>		<p>(81) Designated States: AU, CA, CN, JP, KR, MX, SG, European patent (AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE). Published <i>With international search report.</i></p>
<p>(54) Title: FLUID STORAGE AND DELIVERY SYSTEM COMPRISING HIGH WORK CAPACITY PHYSICAL SORBENT (57) Abstract An adsorption-desorption apparatus, for storage and dispensing of a sorbable gas, wherein a physical sorbent medium bearing the adsorbed gas to be selectively dispensed is delivered by pressure differential desorption and/or thermal desorption of the sorbate gas from the sorbent material. The sorbent material preferably comprises a material which is characterized by a Sorbent Working Capacity, measured for arsine at 40 Torr and at 650 Torr, of at least 100 grams arsine per liter of bed of the sorbent material, e.g., a sorbent material having the adsorption isotherm characteristic of curve A in Figure 1.</p>		