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(21) International Application Number: PCT/GB96/02367 (22) International Filing Date: 25 September 1996 (25.09.96) (30) Priority Data: 9519503.8 25 September 1995 (25.09.95) GB 9523089.2 10 November 1995 (10.11.95) GB (71) Applicants (for all designated States except US): THE SECRETARY OF STATE FOR DEFENCE [GB/GB]; Defence Research Agency, Farnborough, Hampshire GU14 6TD (GB). LIFE SUPPORT ENGINEERING LTD [GB/GB]; Robell Way, Storrington, Sussex. RH20 3DN (GB). (72) Inventors; and (75) Inventors/Applicants (for US only): COOK, John [GB/GB]; Intellectual Property Dept., R69 Building, Defence Evaluation & Research Agency, DRA Farnborough, Hampshire GU14 6TD (GB). RICHARDS, Brian, John [GB/GB]; Life Support Engineering Ltd., Robell Way, Storrington, Sussex RH20 3DN (GB). (74) Agent: SKELTON, Stephen, Richard; D/IPR (DERA) Formalities, Eoplar 2, MOD (PE) Abbey Wood # 19, P.O. Box 703, Bristol BS12 7DU (GB).		(81) Designated States: AM, AT, AU, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LT, LU, LV, MD, MG, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TT, UA, UG, US, UZ, VN, Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE). Published With international search report.
(54) Title: GAS CONTAINMENT APPARATUS (57) Abstract A gas containment and supply apparatus is described consisting of a gas reservoir vessel (1) capable of pressurised gas containment fitted with a gas supply aperture (8) provided with supply means connectable to the gas supply aperture to provide for supply of the gas and control means to control the rate of supply of the gas, in which the gas reservoir is a toroidal pressure vessel comprising a metallic toroidal shell (2) having wound on its surface a tensile load bearing layer of high tensile strength non-metallic fibre (4), the fibre being aligned in a substantially meridional direction on the toroidal shell. Human portable breathing apparatus is described utilising the above. 		