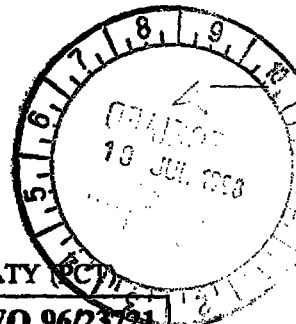
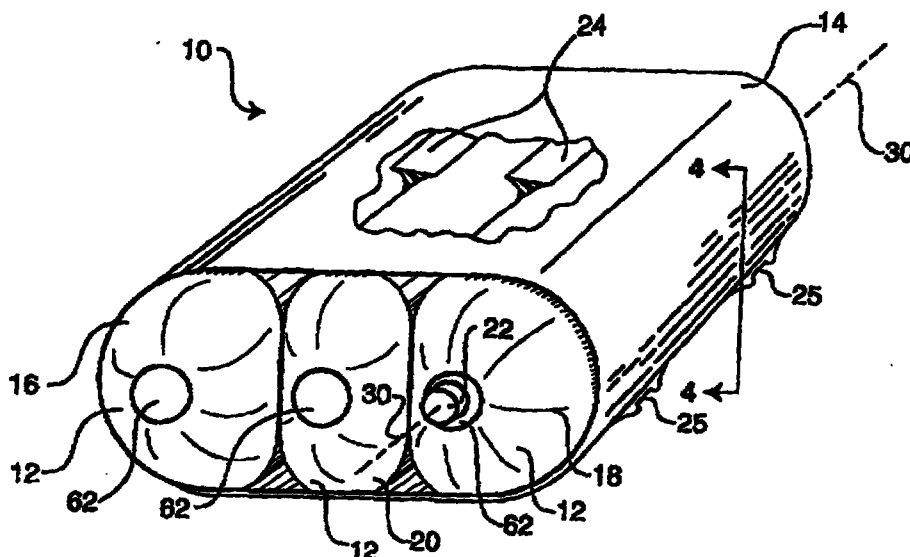


PCTWORLD INTELLECTUAL PROPERTY ORGANIZATION
International BureauRTMP'S
COPY

INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification ⁶ : B65H 81/00, B65D 21/02		A1	(11) International Publication Number: WO 96/23721
			(43) International Publication Date: 8 August 1996 (08.08.96)
(21) International Application Number: PCT/US96/00363 (22) International Filing Date: 11 January 1996 (11.01.96) (30) Priority Data: 08/382,502 2 February 1995 (02.02.95) US (71) Applicant: THIOKOL CORPORATION [US/US]; 2475 Wash- ington Boulevard, Ogden, UT 84401 (US). (72) Inventors: BLAIR, Michael, D.; 3432 North 500 East, North Ogden, UT 84414 (US). KUNZ, Richard; 585 East 3450 North, North Ogden, UT 84414 (US). WARNER, Mark, J.; 562 East 3000 North, North Ogden, UT 84414 (US). DAVIS, Kevin; 491 South 4700 West, Ogden, UT 84401 (US). WOLCOTT, Edward; 290 East 300 South, Providence, UT 84332 (US). TURNER, Darrel; 1007 Sycamore, Brigham City, UT 84302 (US). BENNETT, John; 554 North 300 East, Brigham City, UT 84302 (US). (74) Agents: WITT, Evan, R. et al.; Madson & Metcalf, Suite 950, 170 So. Main Street, Salt Lake City, UT 84101 (US).		(81) Designated States: AL, AM, AT, AU, AZ, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TR, TT, UA, UG, UZ, VN, ARIPO patent (KE, LS, MW, SD, SZ, UG), Eurasian patent (AZ, BY, KZ, RU, TJ, TM), European patent (AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG). Published With international search report.	

(54) Title: COMPOSITE CONFORMABLE PRESSURE VESSEL



(57) Abstract

A pressure vessel (10) for holding a pressurized fluid such as compressed natural gas ("CNG") includes two end cells (12) and zero or more interior cells. The cell geometry ensures that the cells (12) meet one another at tangential circular surfaces, thereby reducing the tendency of adjacent cells to peel apart. A web (14) secured about the cells includes two sheets that are tangent to the cells (12). Unused volumes between the cells (12) and the web contain wedges of foam or rubber. A valve (22) provides fluid communication between the interior of the pressure vessel and a pressurized fluid line. The filled weight of one pressure vessel does not exceed the filled weight of a conventional gasoline tank that occupies substantially the same space as the pressure vessel. The pressure vessel may be configured with exterior recesses for engaging conventional gasoline tank straps.