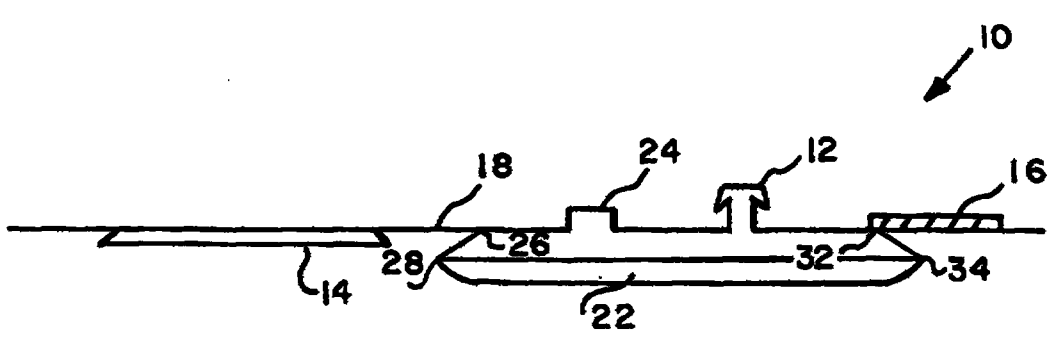


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(21) International Application Number: PCT/US96/03498 (22) International Filing Date: 15 March 1996 (15.03.96) (30) Priority Data: 404,442 15 March 1995 (15.03.95) US (71) Applicants: JOHNS HOPKINS UNIVERSITY [US/US]; 720 Rutland Avenue, Baltimore, MD 21205 (US). CARDIO-LOGIC SYSTEMS, INC. [US/US]; Suite 190, 1500 Joh Avenue, Baltimore, MD 21227 (US). (72) Inventors: GELFAND, Mark; 3800 Baker's Schoolhouse Road, Baltimore, MD 21053 (US). GRUBEN, Kreg, George; 201 South Madison Street, Stoughton, WI 53589 (US). HALPERIN, Henry; 7708 Crossland Road, Baltimore, MD 21208 (US). KEOPSELL, Jeffrey, D.; 1970 Bethany Road, Alpharetta, GA 30201 (US). ROTHMAN, Neil, S.; 5 Crystal Field Court, Baltimore, MD 21209 (US). TSITLIK, Joshua, E.; 121 Northway Road, Reisterstown, MD 21136 (US). (74) Agent: NELSON, Jeffry, H.; Nixon & Vanderhye P.C., 8th floor, 1100 North Glebe Road, Arlington, VA 22201-4714 (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 (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), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG). Published <i>With international search report.</i>
(54) Title: IMPROVED VEST DESIGN FOR A CARDIOPULMONARY RESUSCITATION SYSTEM  (57) Abstract An improved vest design (10) for cardiopulmonary resuscitation is disclosed. The vest (10) includes an inflatable bladder (22) capable of radial expansion to first conform to a patient's chest dimensions and then to apply circumferential pressure. The improved vest design (10) affords ease of placement on a patient without concern for how tightly the vest (10) is initially applied. Also disclosed are various vest designs (88, 90, 92) that reduce the amount of compressed air that must be used for each compression/decompression cycle of the vest (10). These improvements lower the energy consumption and make smaller and portable cardiopulmonary resuscitation systems possible.		