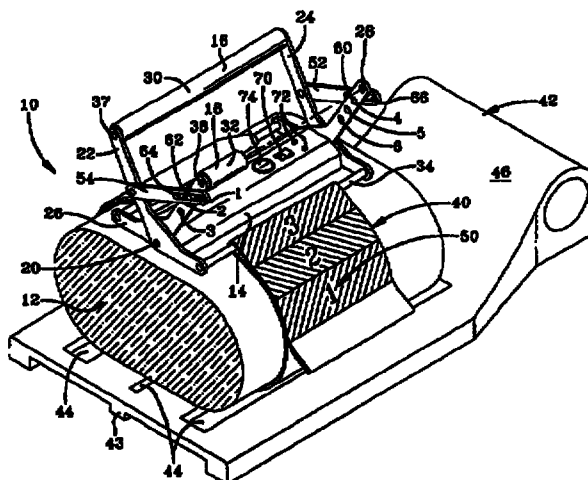


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(21) International Application Number: PCT/US96/18882 (22) International Filing Date: 26 November 1996 (26.11.96) (30) Priority Data: 573,465 15 December 1995 (15.12.95) US (71) Applicant: DECA-MEDICS, INC. [US/US]; 2427 Tremont Road, Columbus, OH 43221 (US). (72) Inventors: LACH, Thomas, E.; 2427 Tremont Road, Columbus, OH 43221 (US). KELLY, Kevin, A.; 744 Amity Road, Galloway, OH 43119 (US). LACH, Ralph, D.; 2427 Tremont Road, Columbus, OH 43221 (US). HANDSHY, Arthur, W.; 6728 Lakeside Circle West, Worthington, OH 43085 (US). (74) Agent: FOSTER, Frank, H.; Kremblas, Foster, Millard & Pollick, 7632 Slate Ridge Boulevard, Reynoldsburg, OH 43068 (US).		(81) Designated States: AL, AM, AT, AU, AZ, BA, 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, LC, 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: CHEST COMPRESSION APPARATUS FOR CARDIAC ARREST**(57) Abstract**

The invention is an apparatus for increasing intrathoracic pressure for resuscitating cardiac arrest patients. The apparatus comprises a flexible, substantially inelastic belt (40) wrapped around the patient's chest (12) and attached to a force converter. The force converter converts a downwardly directed force into a chest resultant, which depresses the sternum, and two belt tightening resultants. The force converter comprises a pair of arm assemblies (16, 18), each having a pair of spaced arms (22, 24), which are pivotally mounted to a base (14). The base is positioned near the patient's sternum and the ends of the belt attach to one end of each arm assembly. The opposite, handle ends (30, 32) of the arm assemblies are depressed toward the chest causing tightening of the belt and compression of the chest cavity.