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(74) Agent: **LOPEZ, Theodore, P.**; MacPherson Kwok Chen & Heid LLP, 1762 Technology Drive, Suite 226, San Jose, California 95110 (US).

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(71) Applicant (for all designated States except US): **VENTURE MANUFACTURING, LLC** [US/US]; 2233 Calle Del Mundo, Santa Clara, CA 95054 (US).

(72) Inventors; and

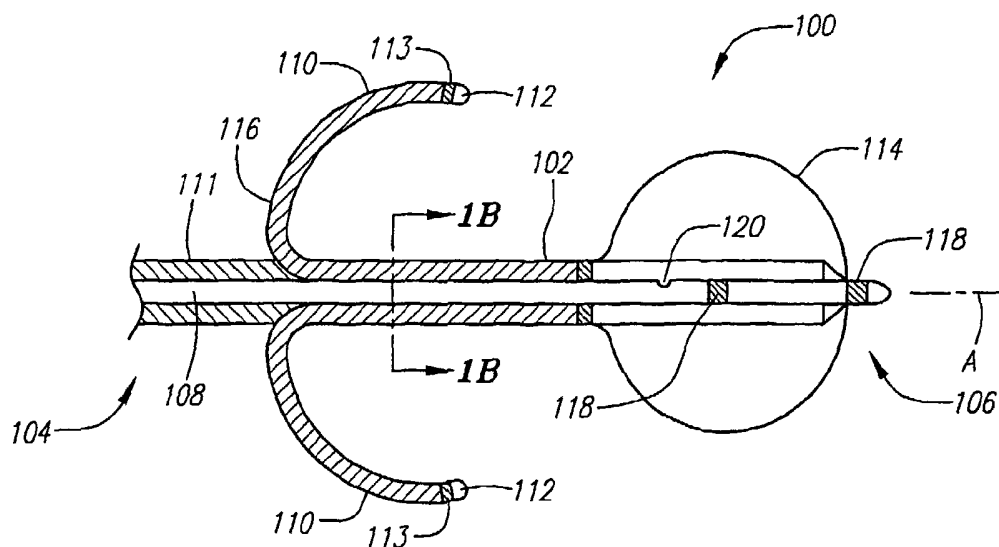
(75) Inventors/Applicants (for US only): **IM, Karl, S.** [US/US]; 508 Villa Centre Way, San Jose, CA 95128 (US). **TO, John, T.** [US/US]; 36514 Dijon Drive, Newark, CA 94560 (US). **PERKINS, Roger, W.** [US/US]; 1059 Lackawanna Court, Sunnyvale, CA 94087 (US).

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[Continued on next page]

(54) Title: **BALLOON CENTERED RADIALY EXPANDING ABLATION DEVICE**



(57) Abstract: A device and associated method for performing ablation procedures on anatomical structures accessible from within the chambers of the heart to form lesions that electrically isolate the tissue. The device including an ablation device having a catheter body concentrically formed with an outer sheath. The device also including a balloon used to perform a centering and anchoring function at an orifice within the cardiac myocardium. At least one ablation element can be positioned proximal to the balloon which can be radially deployed with respect to the central axis of the apparatus for creating a lesion at a lesion creation site in the heart wall.

**Declaration under Rule 4.17:**

- *as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii)) for the following designations AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW, ARIPO patent (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG)*

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According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 606/37, 39-46; 607/99-101, 111-118; 604/20-22

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5366490 A (EDWARDS et al.) 22 November 1994, see entire document	1-67

☐ Further documents are listed in the continuation of Box C.

☐ See patent family annex.

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Name and mailing address of the ISA/US

Mail Stop PCT, Attn: ISA/US
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

Facsimile No. (703) 305-3230

Authorized officer

Rosilaid S Rollins

Telephone No. (571) 272-3700