



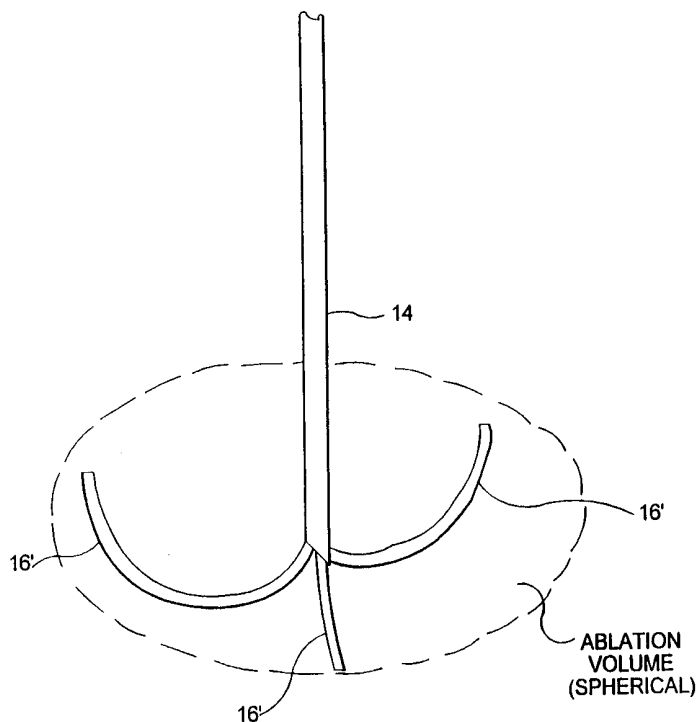
INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification ⁶ : A61B 17/39, A61N 1/40, 5/04	A3	(11) International Publication Number: WO 97/06739 (43) International Publication Date: 27 February 1997 (27.02.97)
(21) International Application Number: PCT/US96/13285 (22) International Filing Date: 15 August 1996 (15.08.96) (30) Priority Data: 08/515,379 15 August 1995 (15.08.95) US (71) Applicant (for all designated States except US): ZOMED INTERNATIONAL, INC. [US/US]; 967 North Shoreline Boulevard, Mountain View, CA 94043 (US). (72) Inventors; and (75) Inventors/Applicants (for US only): GOUGH, Edward, J. [GB/US]; 31 Addison Way, Menlo Park, CA 94025 (US). STEIN, Alan, A. [US/US]; 649 Lancaster Boulevard, Moss Beach, CA 94038 (US). (74) Agent: DAVIS, Paul; Wilson, Sonsini, Goodrich & Rosati, 650 Page Mill Road, Palo Alto, CA 94304-1050 (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, US, 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> (88) Date of publication of the international search report: 7 May 1998 (07.05.98)

(54) Title: APPARATUS FOR ABLATION OF A SELECTED MASS

(57) Abstract

An ablation treatment apparatus has a multiple probe device. The multiple probe device includes a primary electrode/probe/antenna with at least one lumen, a longitudinal axis and an ablative surface area of length L_1 . The multiple probe device also includes a secondary electrode/probe/antenna that is positioned in a lumen of the primary probe as this last is introduced through tissue. A secondary electrode/probe/antenna distal end is slidingly deployed at a selected tissue site from the primary electrode/probe/antenna lumen in a lateral direction relative to the longitudinal axis. A sensor is at least partially positioned at an exterior of the secondary electrode/probe/antenna distal end at a distance L_2 from the primary electrode/probe/antenna along the secondary electrode/probe/antenna distal end. L_2 is at least equal to $1/3 L_1$. An energy source is coupled to the primary electrode/probe/antenna.



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INTERNATIONAL SEARCH REPORT

International Application No

PCT/US 96/13285

A. CLASSIFICATION OF SUBJECT MATTER

IPC 6 A61B17/39 A61N1/40 A61N5/04

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)

IPC 6 A61B A61N

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 practical, 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.
Y	<p>WO 95 19142 A (VIDAMED) 20 July 1995</p> <p>see the whole document see page 7, paragraph 2 ---</p> <p style="text-align: center;">-/-</p>	<p>1,4-8, 10, 14-22, 24,25, 34,37, 45,47, 48, 51-53, 55,56, 58,59</p>

☒ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

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Date of the actual completion of the international search

3 December 1996

Date of mailing of the international search report

17.12.96

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INTERNATIONAL SEARCH REPORT

International Application No.

PCT/US 96/13285

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	WO 94 10925 A (AMERICAN CARDIAC ABLATION) 26 May 1994 see abstract; figures 2,8 ---	1,4-8, 10, 14-22, 24,25, 34,37, 45,47, 48, 51-53, 55,56, 58,59
A	EP 0 608 609 A (CARDIAC PATHWAYS CORP.) 3 August 1994 see abstract; figure 1 ---	1,34,56
A	US 5 417 687 A (NARDELLA) 23 May 1995 see abstract; figure 1 ---	34,56
A	DE 38 38 840 A (STOCKERT) 23 May 1990 see abstract; figures 2,9 ---	1,34
A	US 4 565 200 A (COSMAN) 21 January 1986 cited in the application see abstract -----	

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US 96/13285

Box I Observations where certain claims were found unsearchable (Continuation of Item 1 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☒ Claims Nos.: 26-33, 62-68
because they relate to subject matter not required to be searched by this Authority, namely:
See PCT Rule 39.1 (iv)
2. ☐ Claims Nos.:
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
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Box II Observations where unity of invention is lacking (Continuation of Item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
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Remark on Protest

☐ The additional search fees were accompanied by the applicant's protest.

☐ No protest accompanied the payment of additional search fees.

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/US 96/13285

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US 4565200 A	21-01-86	NONE	