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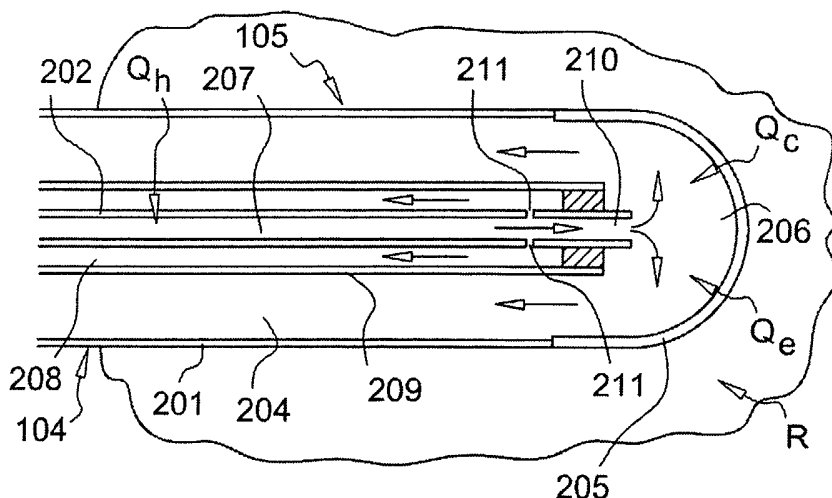
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(54) Title: CRYOSURGICAL DEVICE WITH ENHANCED COOLING POWER



(57) Abstract: The present invention provides a medical device to cold treat desired regions. An injection tube with an open distal end, and at least one aperture proximate thereto is disposed inside of a cooling tube, defining a cooling lumen therebetween. A third outer tube member is disposed around the second cooling member, defining a return lumen therebetween. A supply of fluid, regulated by a controller mechanism coupled to the device, flows through the injection lumen, the apertures and the cooling lumen to insulate and cool the fluid supplied into the injection lumen. The supplied fluid flows through

the injection lumen and its distal end into the return lumen to cool the surrounding areas external to and proximate the distal end of the device.

INTERNATIONAL SEARCH REPORT

International Application No

PCT/CA 02/00245

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 A61B18/02

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 7 A61B

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)

EPO-Internal, PAJ, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5 992 158 A (PENNY LESLIE JOHN ET AL) 30 November 1999 (1999-11-30)	1-4, 6-12,14
Y	column 2, line 29 -column 2, line 58 column 6, line 37 -column 8, line 11 column 10, line 9 -column 10, line 42; figure 2 ---	5,15,16
X	GB 2 283 678 A (SPEMBLY MEDICAL LTD) 17 May 1995 (1995-05-17)	1-4, 6-12,14
Y	page 2, line 27 -page 3, line 16 page 6, line 27 -page 7, line 28; figure 3 ---	5,15,16
Y	EP 0 919 197 A (GALIL MEDICAL LTD) 2 June 1999 (1999-06-02) column 2, line 30 -column 2, line 57 column 5, line 30 -column 7, line 8; claims 1,8; figure 1 ---	5,15,16
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Further documents are listed in the continuation of box C.



Patent family members are listed in annex.

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A	US 5 254 116 A (CHANG ZHAOHUA ET AL) 19 October 1993 (1993-10-19) column 8, line 31 -column 9, line 68; figure 1 -----	1-16

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