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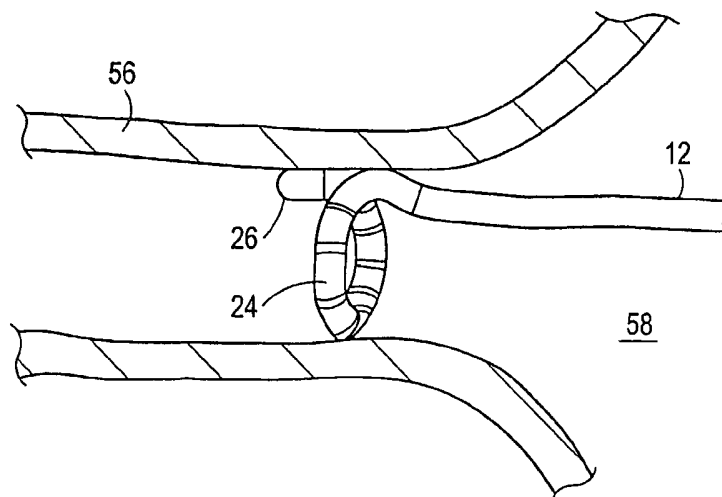
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(54) Title: A THERMALLY EXTENDED SPIRAL CRYOTIP FOR A CRYOABLATION CATHETER



(57) Abstract: A system and method for cryoablating tissue at a target site in a patient includes a cryotip attached to the distal end of a catheter tube. The cryotip is made of a shape memory material that assumes a straight configuration at a first temperature and a coiled configuration at a second temperature. With the cryotip in the straight configuration, the cryotip is guided through the vasculature of a patient to the target site. A refrigerant fluid is introduced into the expansion chamber of the cryotip to cool the cryotip to the second temperature. At the second temperature, the cryotip transforms into the coiled configuration and is placed in contact with circumferential tissue around the target site. The circumferential tissue is then cryoablating in a single-step operation.

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**INTERNATIONAL SEARCH REPORT**

International application No.

PCT/US05/02738

**A. CLASSIFICATION OF SUBJECT MATTER**

IPC: **A61B 18/02**( 2006.01)

USPC: 606/21-23

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. : 606/21-23

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)  
EAST

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X --- Y	US 6,235,048 B1 (DOBAK, III) 22 May 2001, see entire document.	1-5, 7, 8, 10-15 ----- 1-20
Y, E	US 2005/0,027289 A1 (CASTELLANO et al.) 03 February 2005, see entire document.	1-20

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"P" document published prior to the international filing date but later than the priority date claimed	"&" document member of the same patent family

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