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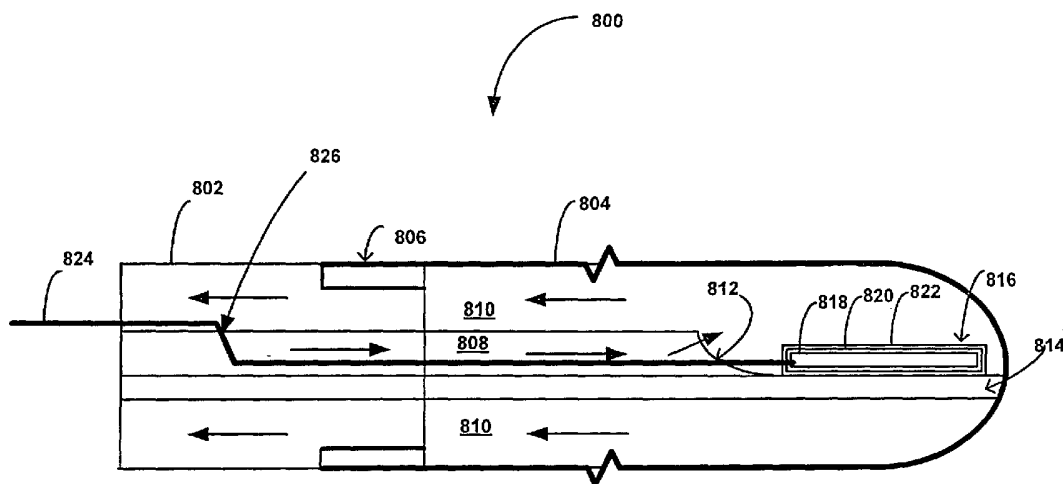
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- (71) Applicant (for all designated States except US): **INNER-COOL THERAPIES, INC.** [US/US]; 3931 Sorrento Valley Blvd., San Diego, CA 92121 (US).
- (72) Inventors: **YON, Steve, A.**; 11226 Moranda Court, San Diego, CA 92128 (US). **MAGERS, Michael**; 2330 Casa Hermosa Court, Encinitas, CA 92024 (US).
- (74) Agent: **WIECZOREK, Mark, D.**; Innercool Therapies, Inc., 3931 Sorrento Valley Blvd., San Diego, CA 92121 (US).
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(54) Title: METHOD AND SYSTEM FOR INDUCING HYPOTHERMIA WITH TEMPERATURE CONTROL EMPLOYING CATHETER-MOUNTED TEMPERATURE SENSOR AND TEMPERATURE PROJECTION ALGORITHM



(57) Abstract: Embodiments of the invention provide a system for temperature control of the human body. The system includes an indwelling catheter (106) with a tip-mounted heat transfer element (102). The catheter is fluidically coupled to a console (544) that provides a heated or cooled heat transfer working fluid to exchange heat with the heat transfer element, thereby heating or cooling blood. The heated or cooled blood then heats or cools the patient's body or a selected portion thereof. In particular, methods and devices, including software, are provided for administering cooling or rewarming and controlling the same based on a projected control temperature measured by a temperature sensor within the catheter.

# INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/05399

## A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : A61F 7/00  
US CL : 607/104-106

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. : 607/104-106

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched  
none

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)  
none

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 6,231,594 B1 (DAE) 15 May 2001 (15.05.2001), See entire document.	42
Y		40
Y	US 6,149,673 A (GINSBURG) 21 November 2000 (21.11.2000), See entire document.	1,3,4,13-15,40,44,47,48,52,54,60,61,63
Y	US 2002/0103519 A1 (DOBAK et al) 01 August 2002 (01.08.2002), See entire document.	44, 61
Y	US 5,906,614 A (STERN et al) 25 May 1999 (25.05.1999), See entire document	52



Further documents are listed in the continuation of Box C.



See patent family annex.

* Special categories of cited documents:	
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"O" document referring to an oral disclosure, use, exhibition or other means	"&" document member of the same patent family
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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

Roy Gibson

Telephone No. 703-308-3520

# INTERNATIONAL SEARCH REPORT

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## Continuation of Item 4 of the first sheet:

19 words

New Title: METHOD AND SYSTEM FOR INDUCING HYPOTHERMIA WITH TEMPERATURE CONTROL EMPLOYING CATHETER-MOUNTED TEMPERATURE SENSOR AND TEMPERATURE PROJECTION ALGORITHM