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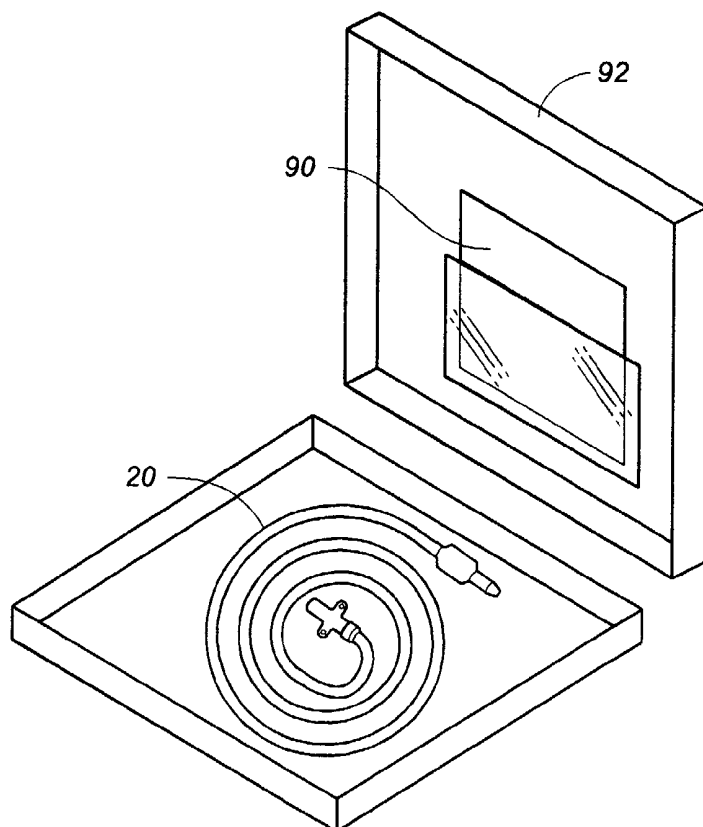
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(54) Title: KIT OF PARTS INCLUDING A CENTRAL VENOUS LINE CATHETER HAVING A TEMPERATURE CONTROL SYSTEM



(57) Abstract: A kit (92) of parts comprises a system and instructions for use (90) for controlling patient temperature which uses a central venous line catheter (20) having a heat exchange element (58). The central venous line catheter (20) is provided with one or more lumens (66) for providing access to the central blood supply of the patient, and with additional lumens (32, 34) for communicating heat exchange fluid to the heat exchange element (58). Heat exchange fluid temperature is controlled through a feedback loop in which patient temperature is sensed and used to control a temperature control unit (50) comprising a heating device (57) and/or a cooling device (57) in heat exchange relationship with the heat exchange fluid. A tubing set (52) transports the heat exchange fluid between the central venous line (20) and the temperature control unit (50), with a pump (not shown) serving to circulate the fluid in a closed fluid circuit in the system.



WO 02/026285 A3



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# INTERNATIONAL SEARCH REPORT

International application No.

PCT/US01/30250

## A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : A61F 7/12  
US CL : 604/113

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. : 604/113, 174, 177, 96.01; 606/27, 28

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.
Y	US 5,624,392 A (SAAB) 29 April 1997, see entire patent.	1-19
Y	US 6,043,273 A (DUHAYLONGSOD) 28 March 2000, see particularly col. 9, lines 64-66, and col. 10, lines 8-9.	1-19
Y	US 5,807,342 A (MUSGRAVE et al) 15 September, 1998, see entire patent.	1-5, 18
Y, P	US 6,231,595 B1 (DOBAK, III) 15 May 2001, see figures 3-5.	2, 12

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

☐ See patent family annex.

* Special categories of cited documents:	"T"
"A" document defining the general state of the art which is not considered to be of particular relevance	later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
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"O" document referring to an oral disclosure, use, exhibition or other means	"&" document member of the same patent family
"P" document published prior to the international filing date but later than the priority date claimed	

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