



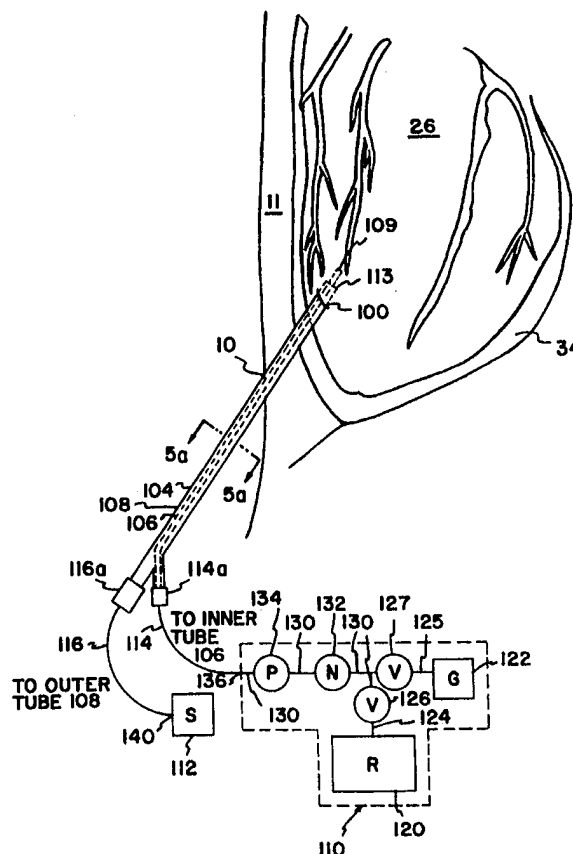
INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

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(21) International Application Number: PCT/US97/22224 (22) International Filing Date: 5 December 1997 (05.12.97) (30) Priority Data: 08/762,379 6 December 1996 (06.12.96) US (71) Applicant: COMEDICUS INCORPORATED [US/US]; Suite 610, 3989 Central Avenue N.E., Columbia Heights, MN 55421 (US). (72) Inventors: SCHMIDT, Cecil, C.; 7400 Edinborough Way #5303, Edina, MN 55435 (US). KLONER, Robert, A.; 4725 Placidia Avenue, Toluca Lake, CA 91602 (US). (74) Agent: BRUESS, Steven, C.; Merchant, Gould, Smith, Edell, Welter & Schmidt, P.A., 3100 Norwest Center, 90 South Seventh Street, Minneapolis, MN 55402-4131 (US).		(81) Designated States: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZW, ARIPO patent (GH, KE, LS, MW, SD, SZ, UG, ZW), 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 With international search report. Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments. (88) Date of publication of the international search report: 22 October 1998 (22.10.98)

(54) Title: TREATMENT METHOD VIA THE PERICARDIAL SPACE

(57) Abstract

A method for treating the heart (26) and associated vessels and tissues by controlling the temperature of the pericardial space (34) and/or introducing therapeutic agents thereto includes providing a fluid, liquid, gas or mixtures thereof with or without therapeutic agents, and heating and/or cooling this fluid (110). At a time proximate to the heating and/or cooling of the fluid, the pericardial space is accessed by pericardial centesis (100), such that the pericardium (24) is punctured, the pericardial space (34) is instrumented at a location, and in particular a location where treatment is desired. The heated and/or cooled fluid is then delivered to the pericardial space (34). At a time after delivery, the fluid is withdrawn from the pericardium (24) through the same instrument (104), or through another instrument a different point along the pericardium (24) that was also instrumented by standard pericardial centesis procedures. This delivery and withdrawal of the fluid (110) may be coordinated so as to form a circuit.



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INTERNATIONAL SEARCH REPORT

 International application No.
 PCT/US97/22224

A. CLASSIFICATION OF SUBJECT MATTER

 IPC(6) : A61B 19/00
 US CL : 128/898

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. : 128/898; 604/49

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)

DIALOG, APS, IS&R, MEDLINE, STN, MEDLARS

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X --- A	US 5,452,733 A (STERMAN et al.) 26 September 1995, entire document.	1-11, 14-21, 23-25 ----- 12, 13, 22, 26, 27
A, E	US 5,735,290 A (STERMAN et al.) 7 April 1998, entire document.	1-27

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