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(54) **Pressure/temperature/flow monitoring device for vascular implantation**

(57) A medical monitoring apparatus designed to be implanted in the vascular system is capable of sensing and transmitting via a telemetry link to an external monitor both pressure and temperature information. An internally or externally powered microcircuit component is supported on a stent-like structure and adapted to be placed in the vascular system. Placement in the ventricular septum permits measurement of pressure and temperature in the left ventricle without introducing thrombus generating materials in the left ventricle.

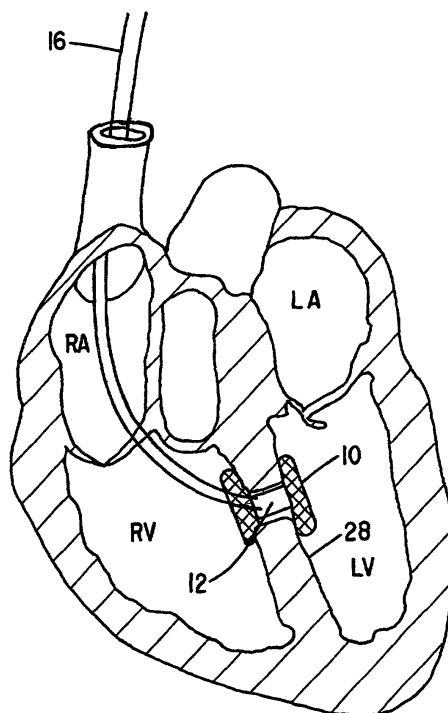


FIG. 3



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Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.7)
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The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 9 September 2003	Examiner Visser, R
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document			

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EUROPEAN SEARCH REPORT

Application Number
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The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 9 September 2003	Examiner Visser, R
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document			

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**ANNEX TO THE EUROPEAN SEARCH REPORT
ON EUROPEAN PATENT APPLICATION NO.**

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This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report.
The members are as contained in the European Patent Office EDP file on
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For more details about this annex : see Official Journal of the European Patent Office, No. 12/82

专利名称(译)	用于血管植入的压力/温度/流量监测装置		
公开(公告)号	EP1050265A3	公开(公告)日	2003-11-05
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CPC分类号	A61F2/82 A61B5/0031 A61B5/02055 A61B5/0215 A61B5/026 A61B5/413 A61B5/6882 A61B2017/00575 A61B2017/00592 A61B2017/00606 A61B2017/00623		
优先权	09/416661 1999-10-12 US 09/303634 1999-05-03 US		
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摘要(译)

设计成植入血管系统的医学监测设备能够通过遥测链路感测和传输压力和温度信息到外部监测器。内部或外部供电的微电路部件支撑在支架状结构上并适于放置在血管系统中。在室间隔中的放置允许测量左心室中的压力和温度，而不在左心室中引入血栓生成材料。

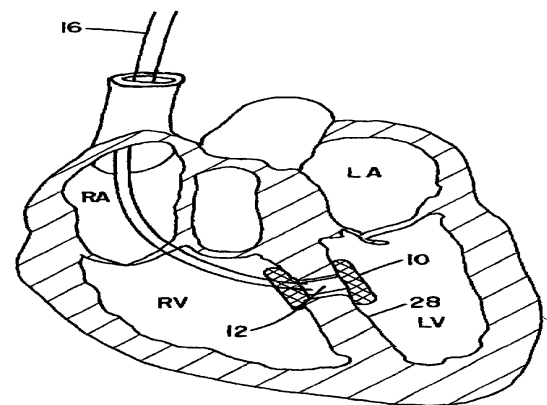


FIG. 3