

US005411552A

United States Patent [19]

Andersen et al.

Patent Number:

5,411,552

Date of Patent: [45]

May 2, 1995

[54]	VALVE PROTHESIS FOR IMPLANTATION
	IN THE BODY AND A CATHETER FOR
	IMDI ANTING CIICH VAI VE DDOTHECIC

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137/844, 316; 251/358; 606/108

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[21] Appl. No.: 261,235

[22] Filed: Jun. 14, 1994

Related U.S. Application Data

[63] Continuation of Ser. No. 961,891, Jan. 11, 1993, aban-

[30]	Foreign A	pplication Priority Data	
May 18,	1990 [DK]	Denmark	1246/90

[51]	Int. Cl.6	A61F 2/24
		623/2; 623/900;
		137/343; 137/844; 251/358
[58]	Field of Search	623/2, 900: 137/343,

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Primary Examiner-David H. Willse Attorney, Agent, or Firm-Watson, Cole, Grindle & Watson

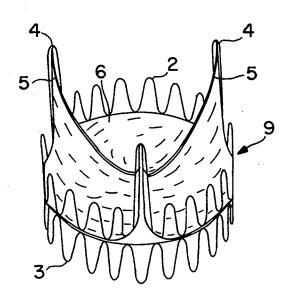
ABSTRACT [57]

A valve prosthesis (9) for implantation in the body by use of catheter (11) comprises a stent made from an expandable cylinder-shaped thread structure (2,3) comprising several spaced apices (4). The elastically collapsible valve (4) is mounted on the stent as the commissural points (5) of the valve (6) are secured to the projecting apices (4).

The valve prosthesis (9) can be compressed around the balloon means (13) of the balloon catheter (11) and be inserted in a channel, for instance in the aorta (10). When the valve prosthesis is placed correctly the balloon means (13) is inflated thereby expanding the stent and wedging it against the wall of aorta. The balloon means is provided with beads (14) to ensure a steady fastening of the valve prosthesis on the balloon means during insertion and expansion.

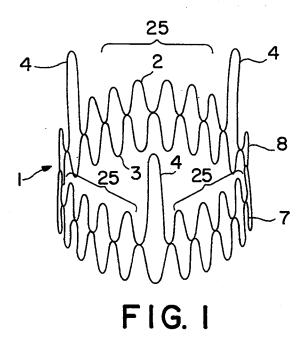
The valve prosthesis (9) and the balloon catheter (11) make it possible to insert a cardiac valve prosthesis without a surgical operation comprising opening the thoracic cavity.

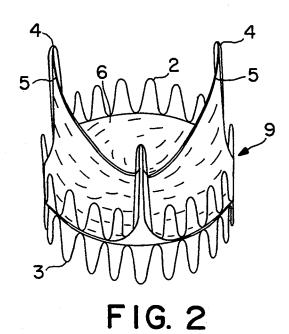
8 Claims, 4 Drawing Sheets

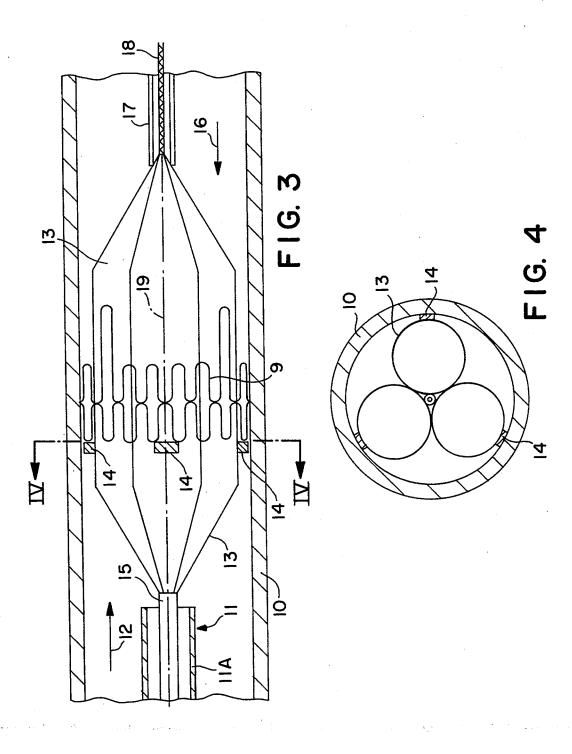


NORRED EXHIBIT 2216 - Page 1 Medtronic, Inc., Medtronic Vascular, Inc., Medtronic Corevalve, LLC

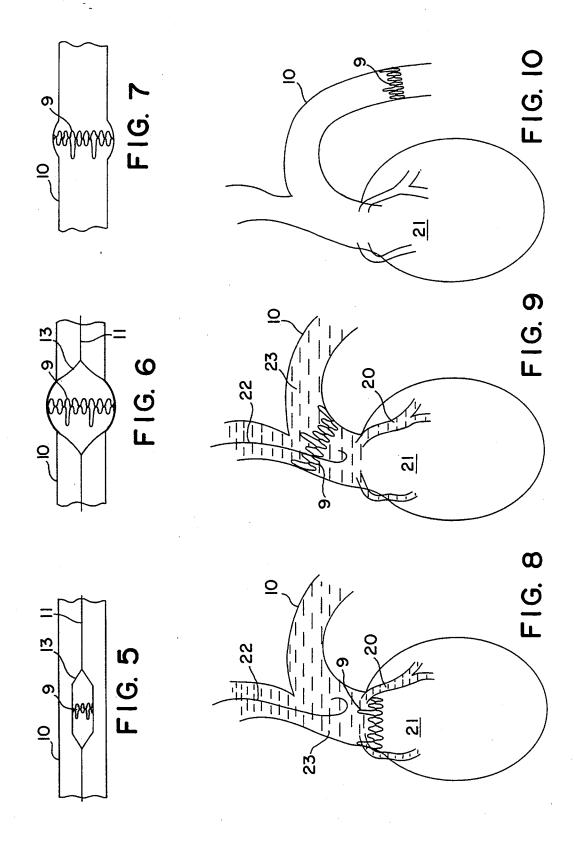




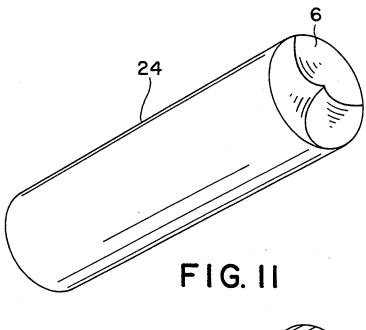


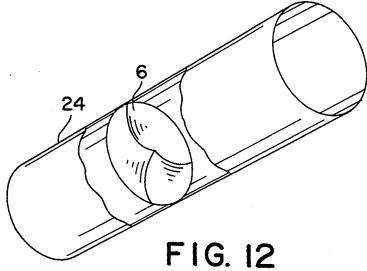












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