

(12) **United States Patent**
Bailey et al.

(10) **Patent No.:** **US 6,458,153 B1**
(45) **Date of Patent:** **Oct. 1, 2002**

(54) **ENDOLUMINAL CARDIAC AND VENOUS VALVE PROSTHESES AND METHODS OF MANUFACTURE AND DELIVERY THEREOF**

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(73) Assignee: **ABPS Venture One, Ltd.**, San Antonio, TX (US)

(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

(21) Appl. No.: **09/477,120**

(22) Filed: **Dec. 31, 1999**

(51) Int. Cl.⁷ **A61F 2/06**

(52) U.S. Cl. **623/1.24; 623/1.26**

(58) Field of Search **623/1.24, 1.25, 623/1.26**

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Primary Examiner—Corrine McDermott

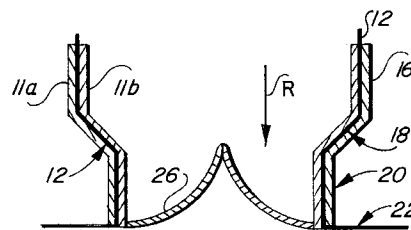
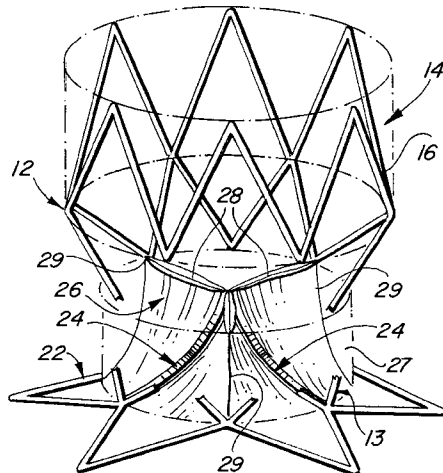
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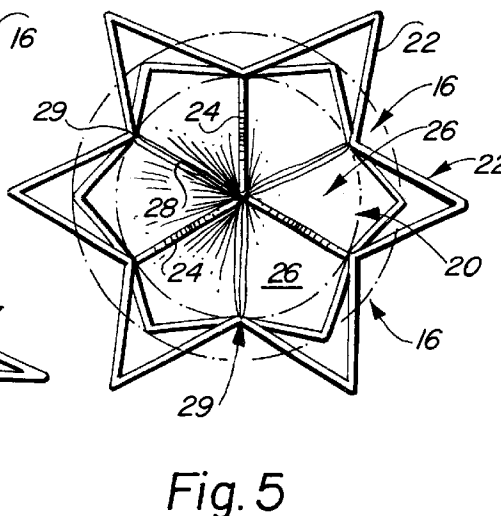
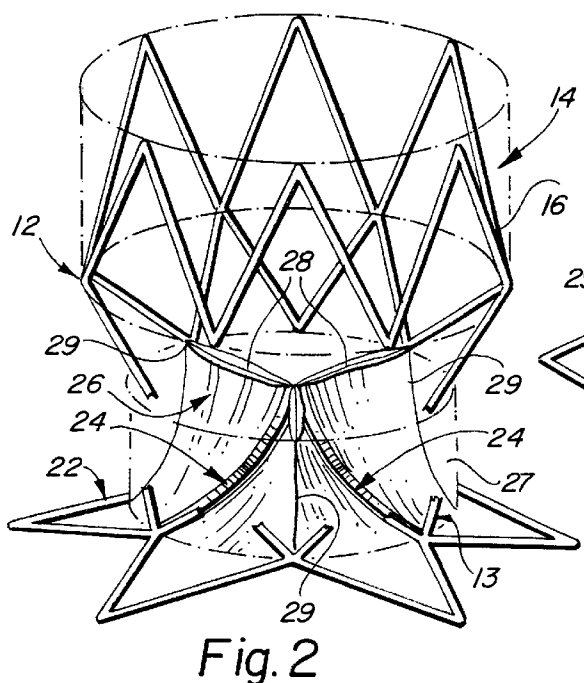
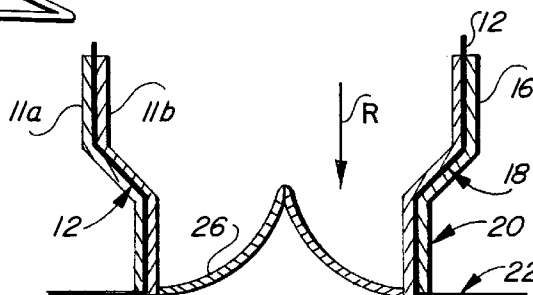
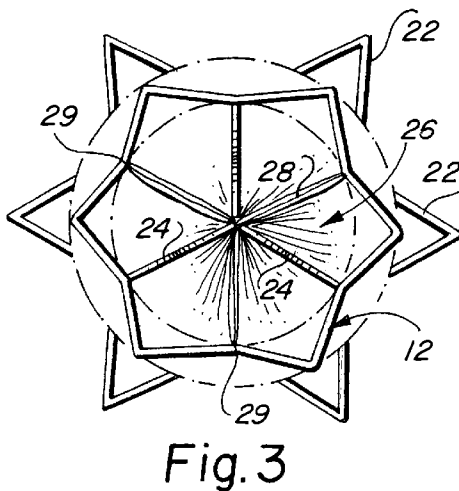
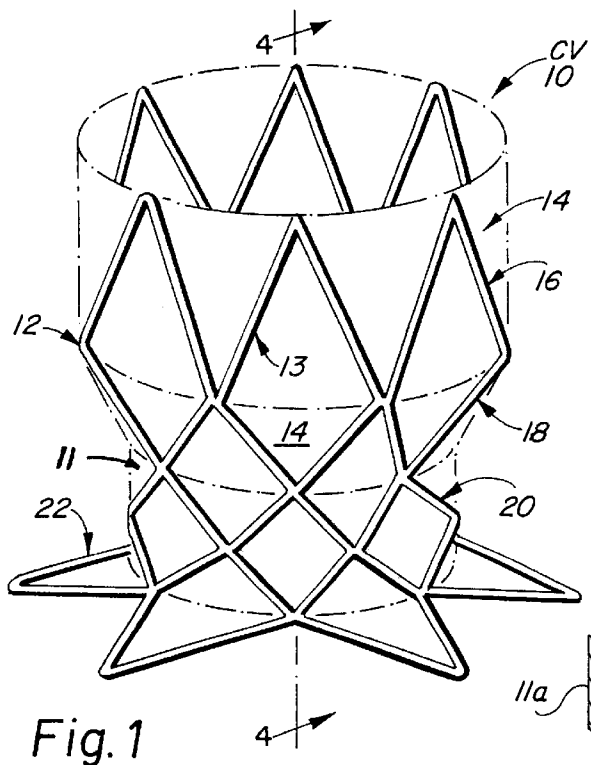
(57) **ABSTRACT**

This invention relates to prosthetic cardiac and venous valves and a single catheter device and minimally invasive techniques for percutaneous and transluminal valvuloplasty and prosthetic valve implantation.

25 Claims, 6 Drawing Sheets



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Medtronic, Inc., Medtronic Vascular, Inc.,
& Medtronic Corevalve LLC



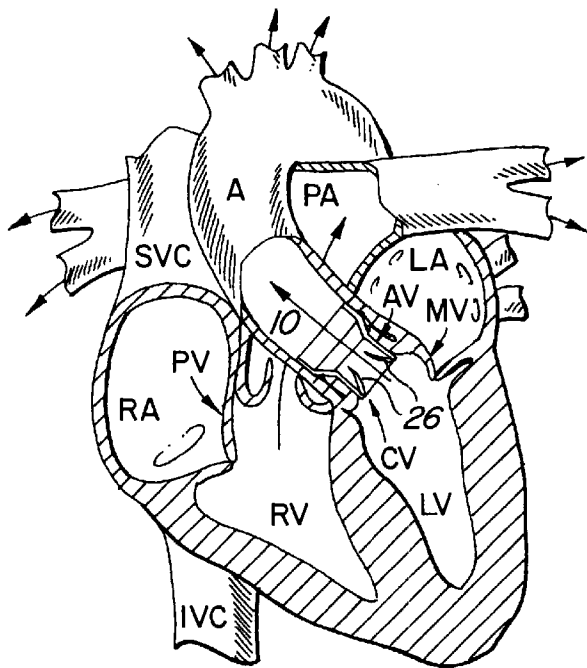


Fig. 6A

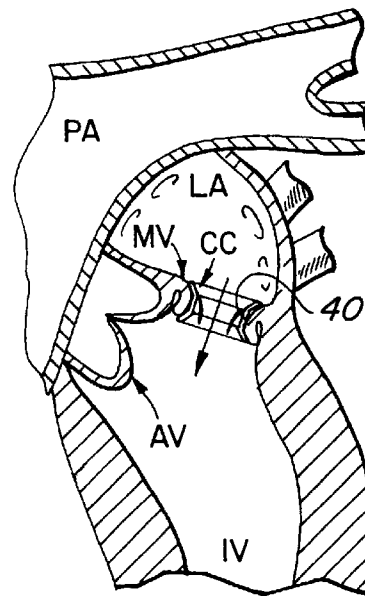


Fig. 12A

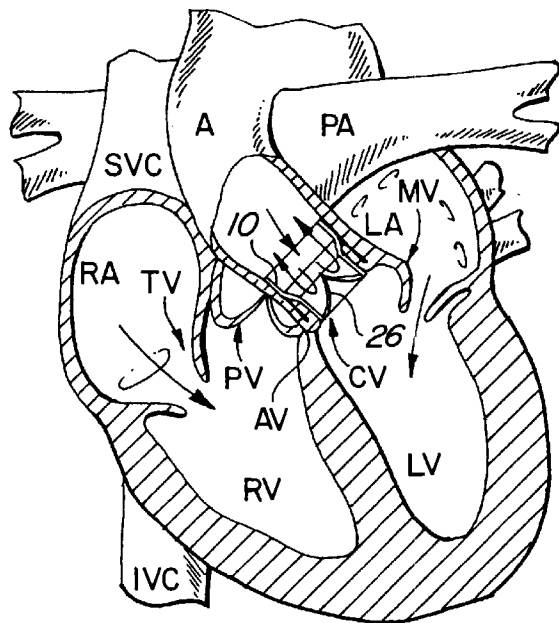


Fig. 6B

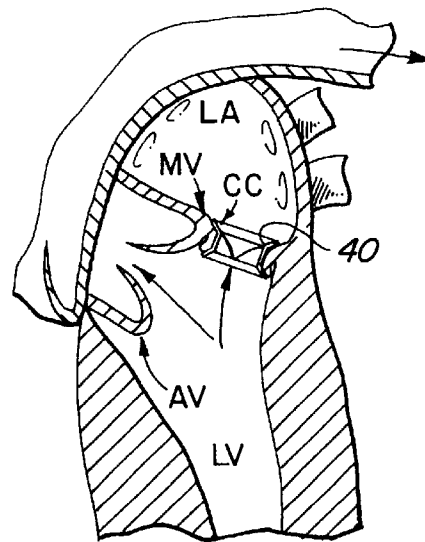


Fig. 12B

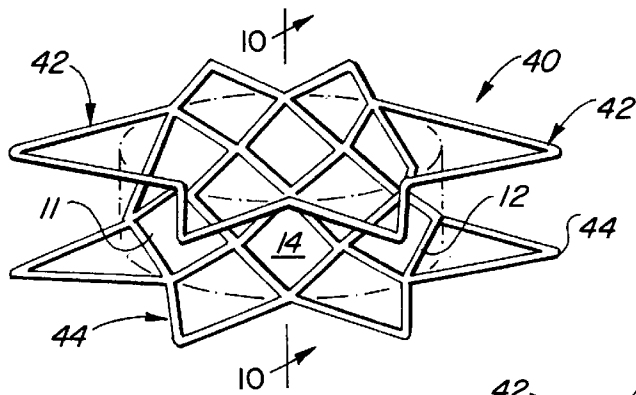


Fig. 7

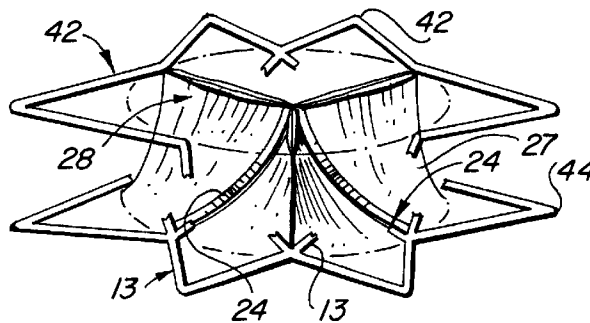


Fig. 8

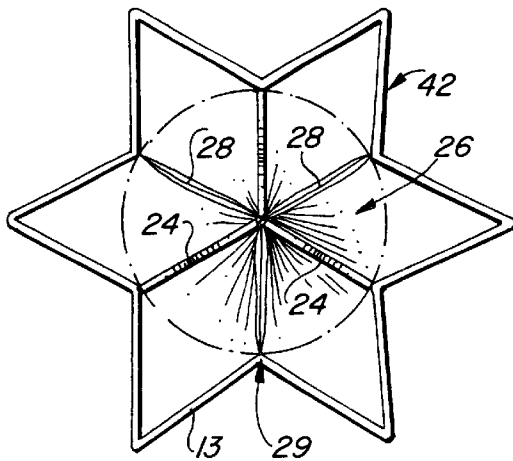


Fig. 9

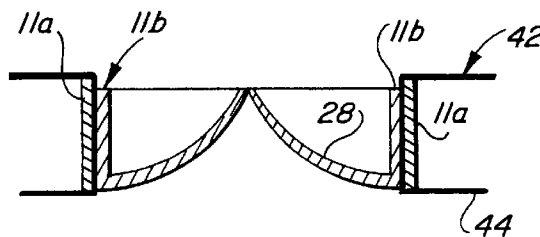


Fig. 10

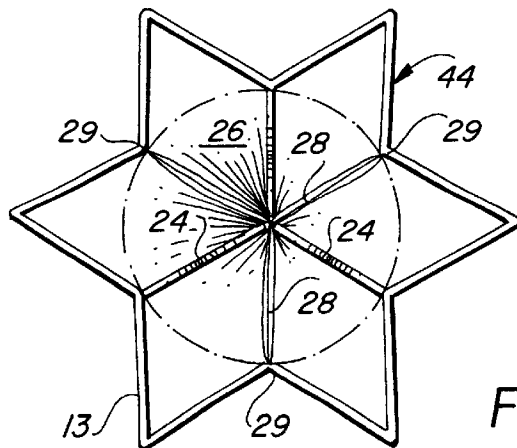


Fig. 11

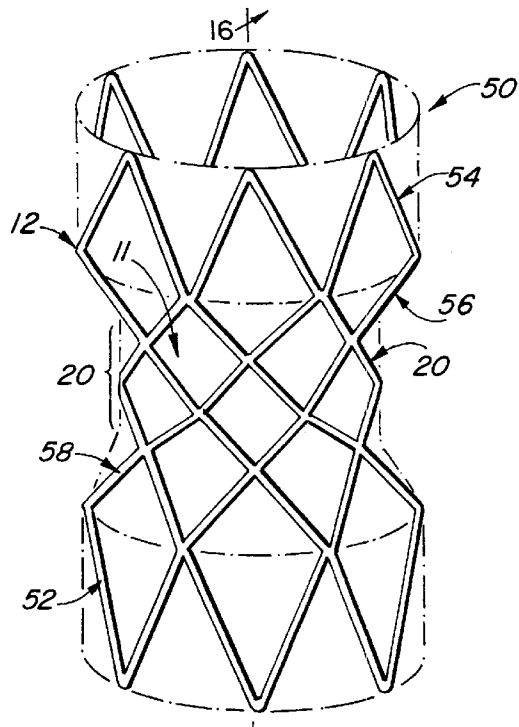


Fig. 13

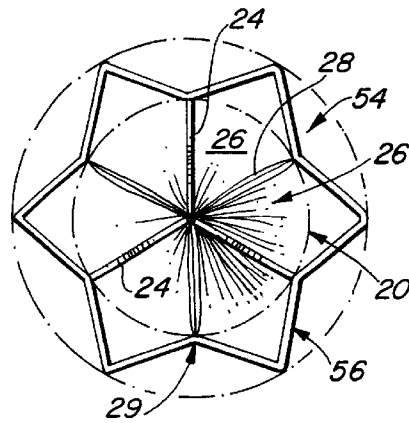


Fig. 15

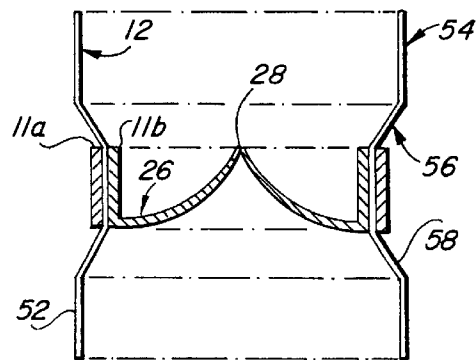


Fig. 16

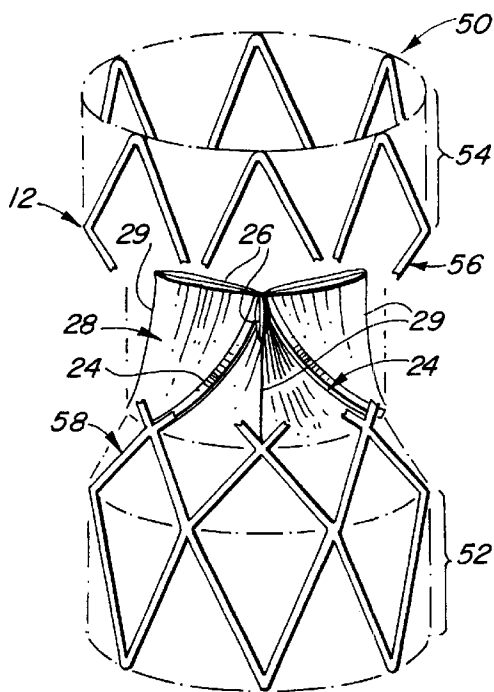


Fig. 14

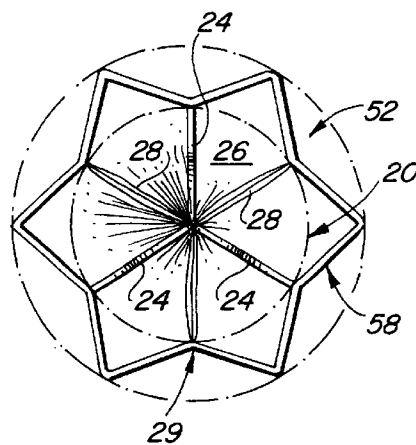


Fig. 17

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