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### Vesely

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### (54) **BIOPROSTHETIC CARDIOVASCULAR** VALVE SYSTEM

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- (73) Assignce: The Cleveland Clinic Foundation
- (21)Appl. No.: 09/745,240

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### **Related U.S. Application Data**

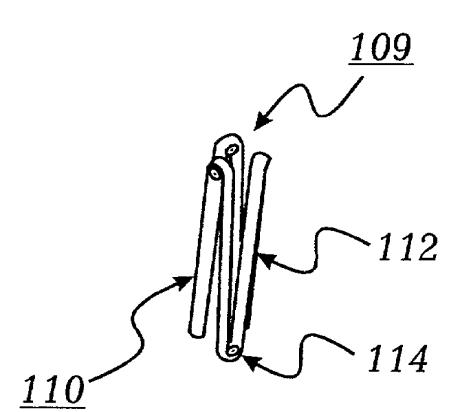
Continuation-in-part of application No. 09/597,918, (63) filed on Jun. 19, 2000, which is a continuation of application No. PCT/US98/27481, filed on Dec. 23, 1998 and which is a non-provisional of provisional application No. 60/068,711, filed on Dec. 29, 1997.

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#### (57)ABSTRACT

A cardiovascular valve system including a permanent base unit that is affixed to the patient using conventional sutures or staples, and a collapsible valve having a collapsible frame that mates with the permanent base unit, and supports valve leaflets. An installed collapsible frame may be re-collapsed and disengaged from the permanent housing. A new collapsible valve is then installed, to resume the function of the prosthesis.



NORRED EXHIBIT 2111 - Page 1 Medtronic, Inc., Medtronic Vascular, Inc., & Medtronic Corevalve, LLC v. Troy R. Norred, M.D.

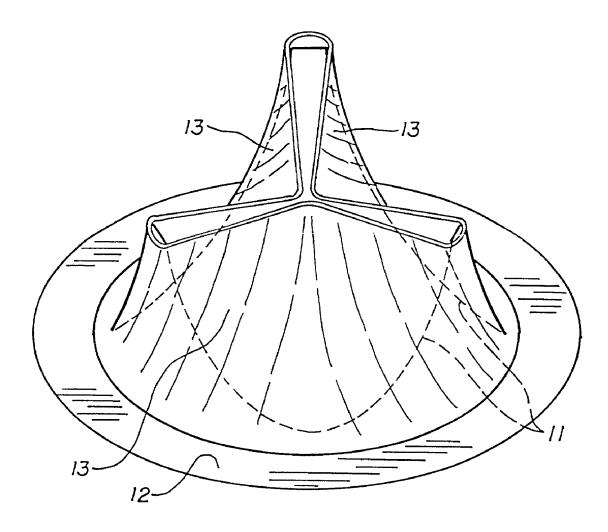
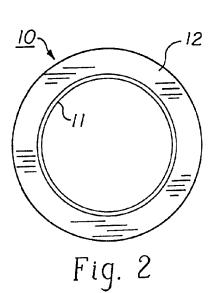
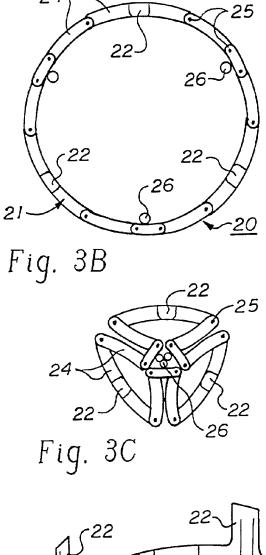


Fig. 1 (PRIOR ART)

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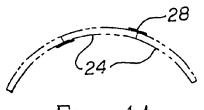


Fig. 4A

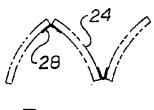
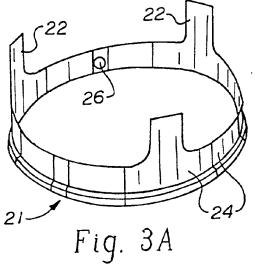


Fig. 4B



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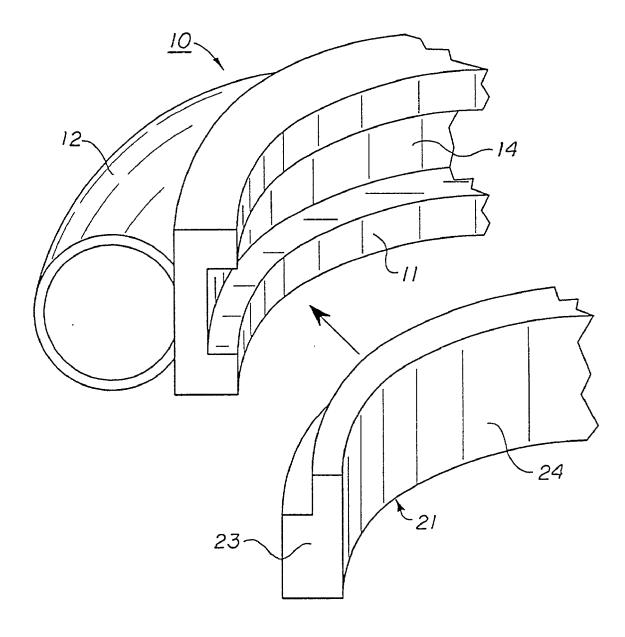


Fig. 5

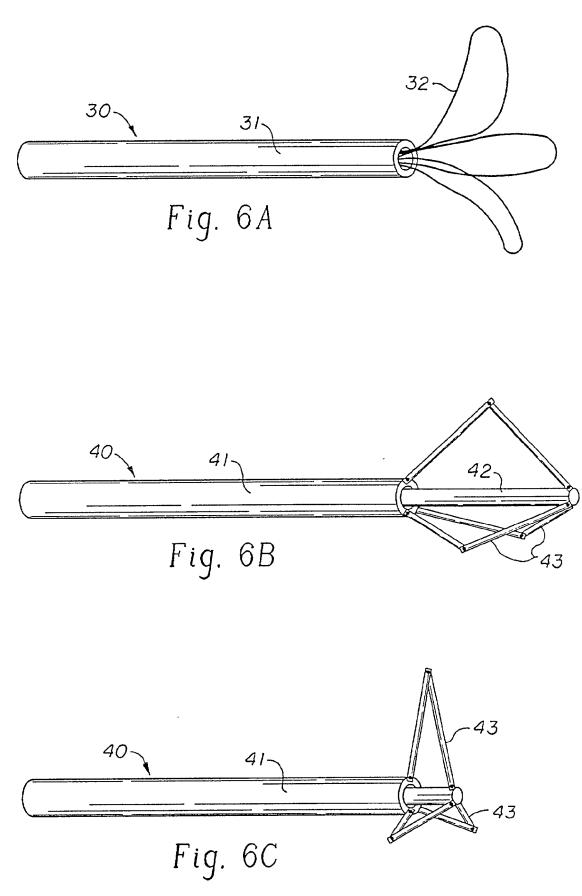
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