



(12) **United States Patent**
Gabbay

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(45) **Date of Patent:** **Apr. 11, 2006**

(54) **VALVULAR PROSTHESIS**

(56) **References Cited**

(76) Inventor: **Shlomo Gabbay**, #1 Randall Dr., Short Hills, NJ (US) 07078

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(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 213 days.

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(21) Appl. No.: **10/373,138**

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(22) Filed: **Feb. 24, 2003**

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(65) **Prior Publication Data**

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Primary Examiner—Brian E. Pellegrino

(74) *Attorney, Agent, or Firm*—Tarolli, Sundheim, Covell & Tummino L.L.P.

Related U.S. Application Data

(63) Continuation of application No. 09/659,882, filed on Sep. 12, 2000, now abandoned.

(57) **ABSTRACT**

(51) **Int. Cl.**
A61F 2/24 (2006.01)

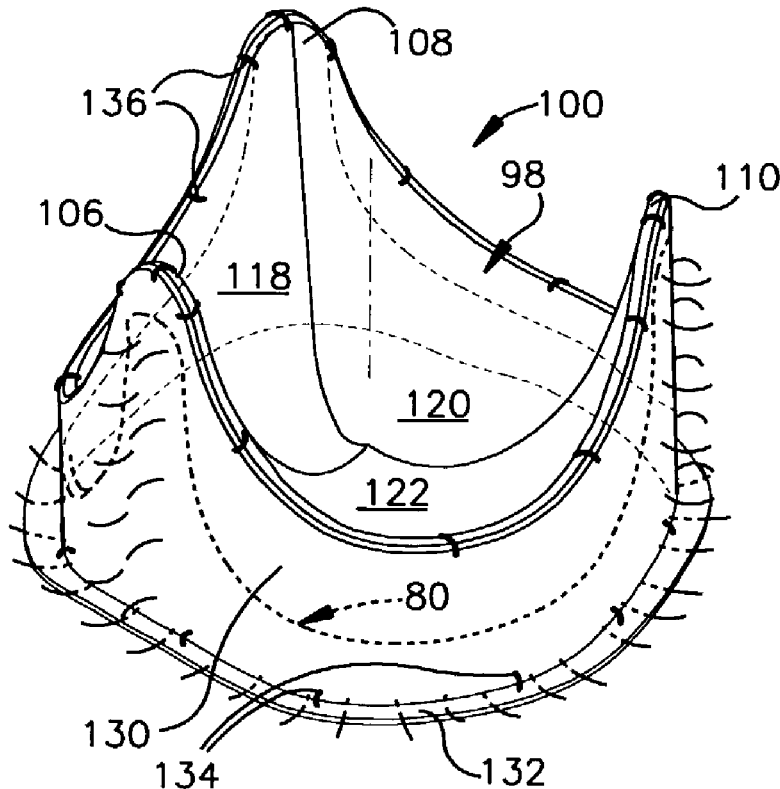
A valvular prosthesis and method of using the prosthesis are disclosed. A valve apparatus is located within a stent apparatus, such that the prosthesis is deformable between a first condition and a second condition, in which the prosthesis has a reduced cross-sectional dimension relative to the first condition, whereby implantation of the prosthesis is facilitated when in the second condition.

(52) **U.S. Cl.** 623/2.13; 623/2.17; 623/900

(58) **Field of Classification Search** 623/1.24, 623/1.26, 2.14, 2.15, 2.16, 2.17, 2.18, 2.19, 623/900

See application file for complete search history.

6 Claims, 5 Drawing Sheets



Medtronic Exhibit 1009

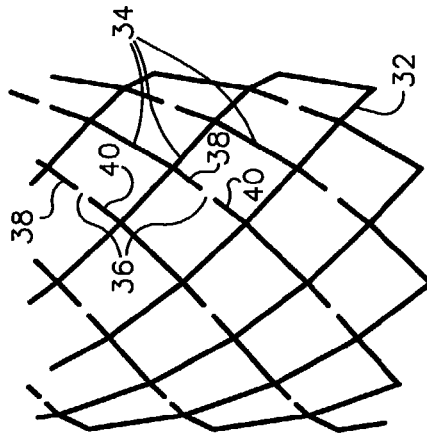


Fig.1A

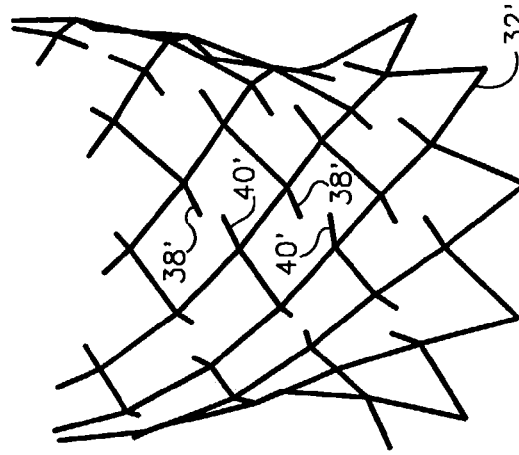


Fig.1B

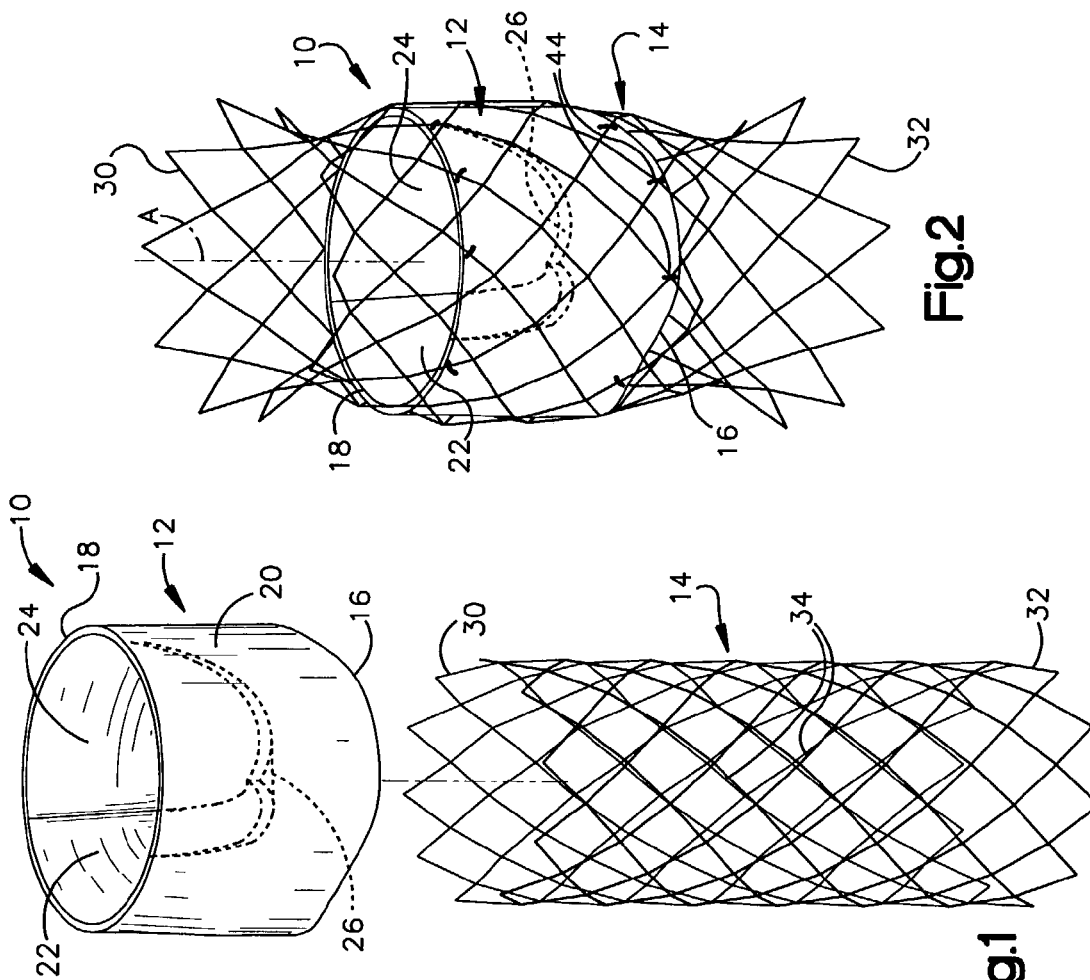


Fig.2

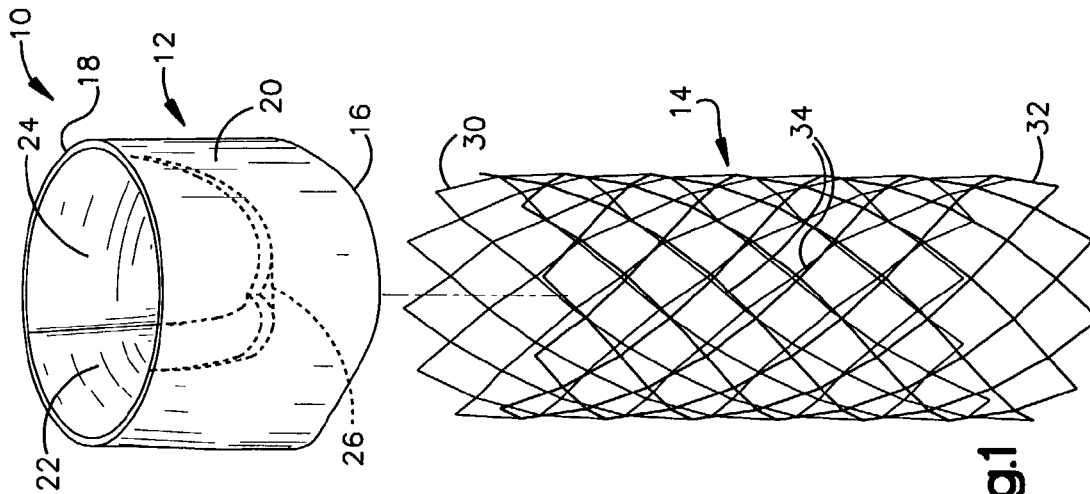
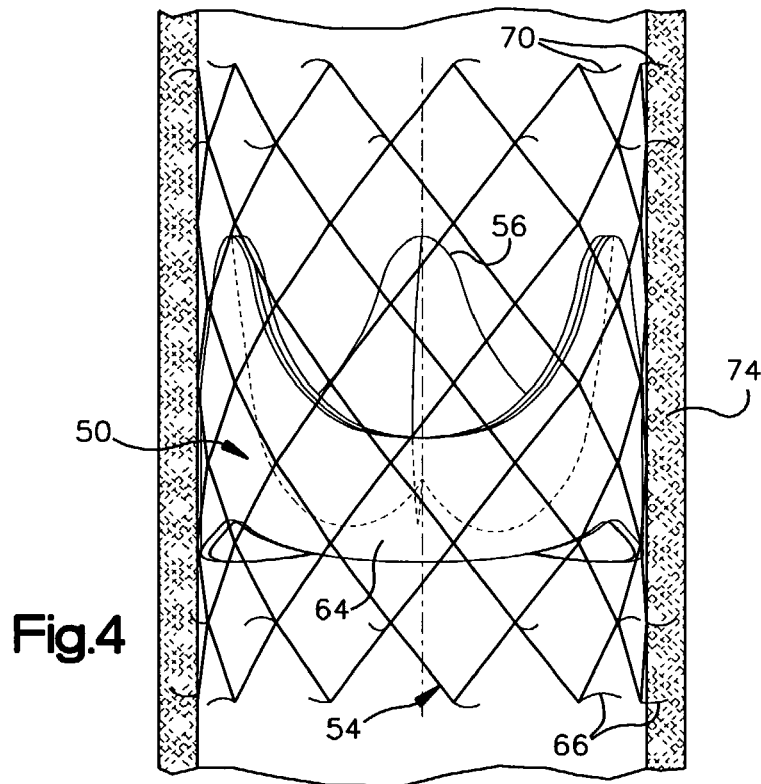
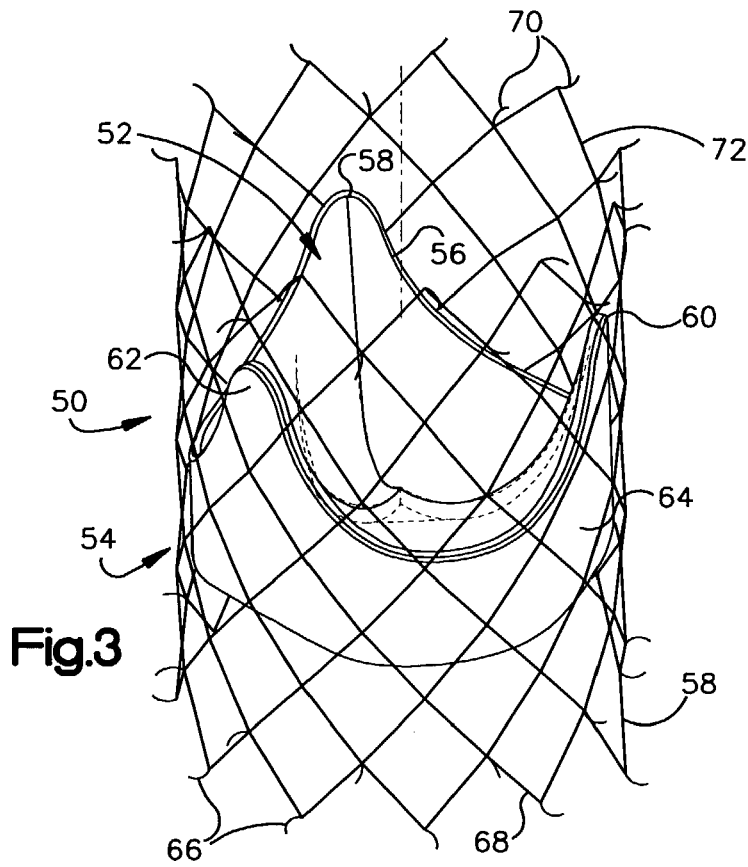
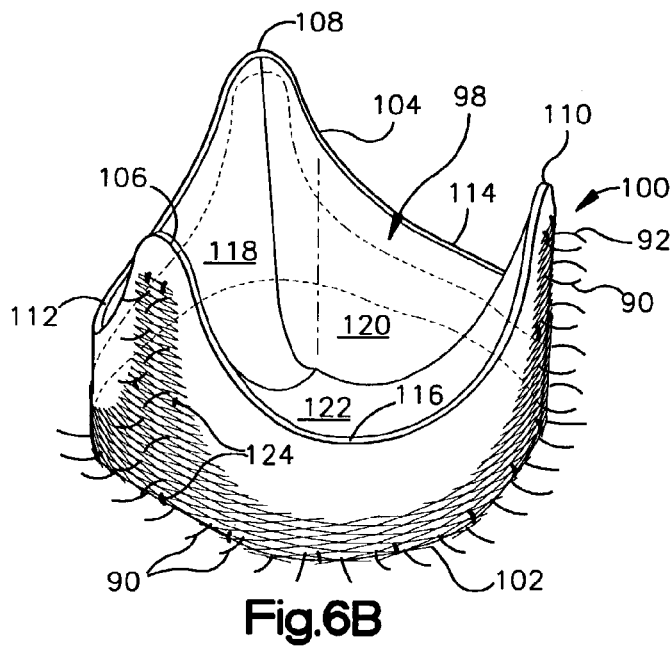
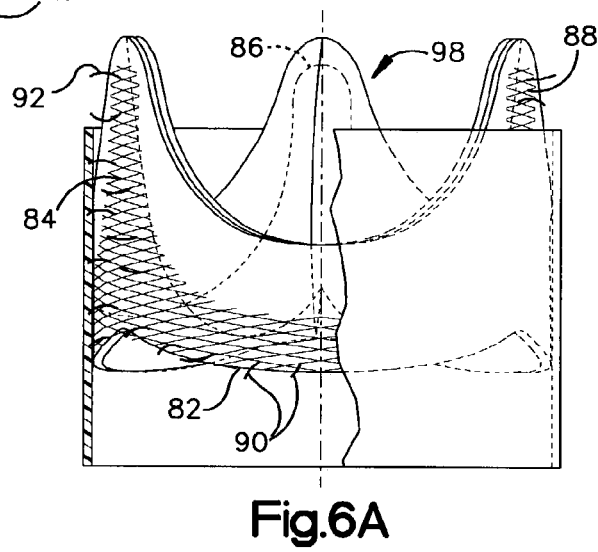
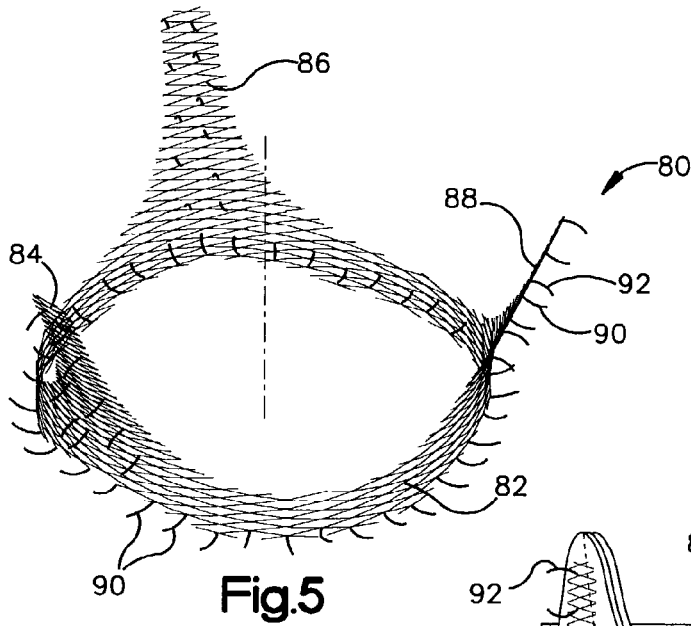


Fig.1





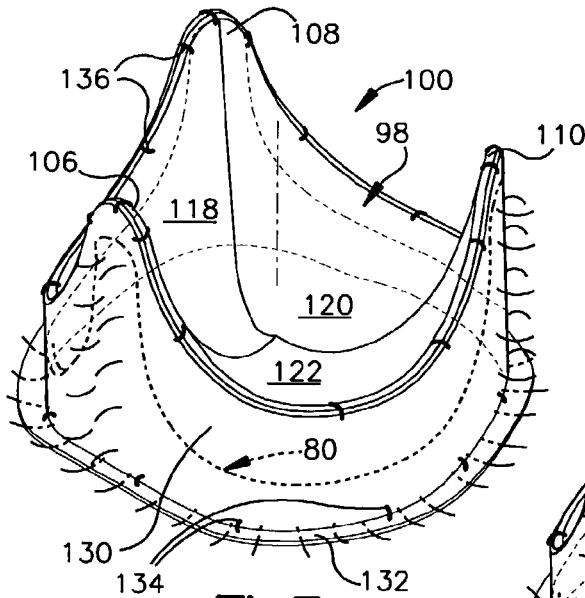


Fig.7

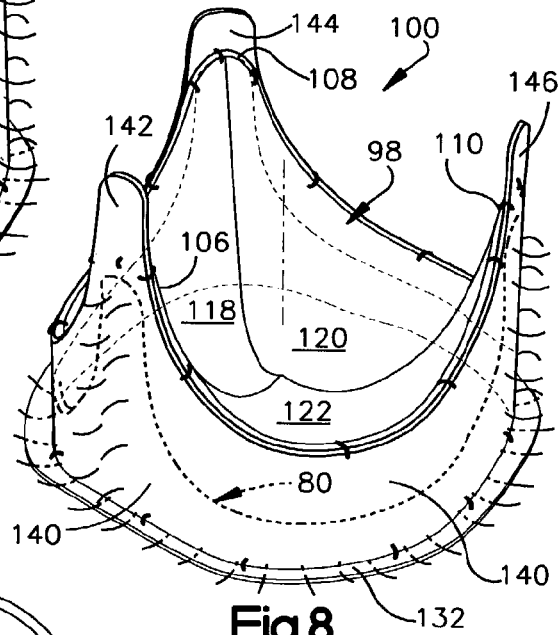


Fig.8

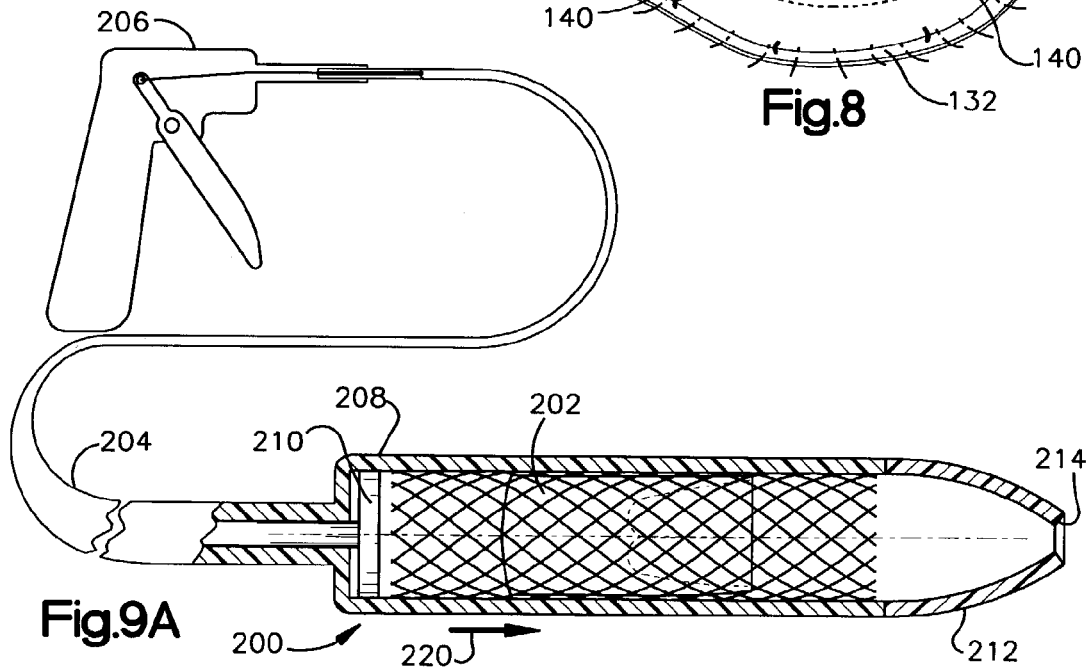


Fig.9A

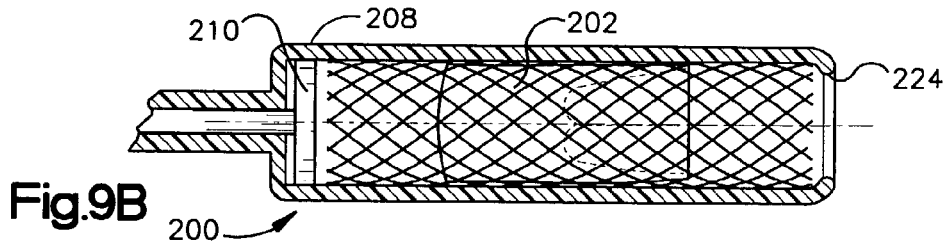


Fig.9B

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