



(19) **United States**

(12) **Patent Application Publication** (10) **Pub. No.: US 2003/0014104 A1**  
**Cribier** (43) **Pub. Date: Jan. 16, 2003**

(54) **VALUE PROSTHESIS FOR IMPLANTATION  
IN BODY CHANNELS**

(30) **Foreign Application Priority Data**

Dec. 31, 1996 (EP) ..... 96402929.2

(76) **Inventor: Alain Cribier, Maromme (FR)**

**Publication Classification**

Correspondence Address:  
**REED SMITH, LLP**  
**ATTN: PATENT RECORDS DEPARTMENT**  
**599 LEXINGTON AVENUE, 29TH FLOOR**  
**NEW YORK, NY 10022-7650 (US)**

(51) **Int. Cl.<sup>7</sup>** ..... **A61F 2/24**  
(52) **U.S. Cl.** ..... **623/2.11; 623/2.14; 623/2.18**

(57) **ABSTRACT**

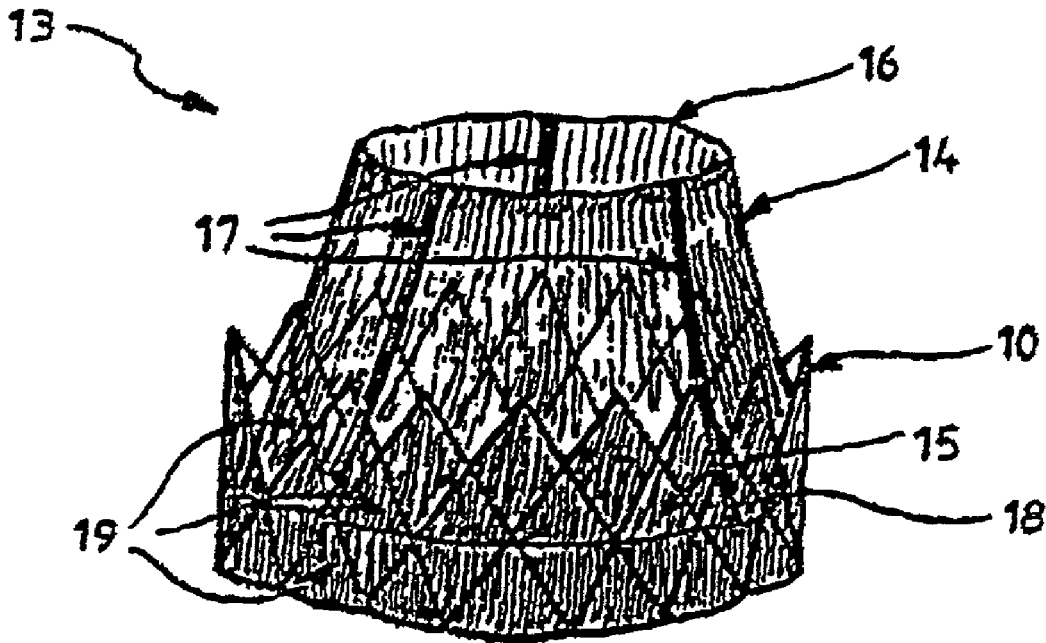
A valve prosthesis which is especially useful in the case of aortic stenosis and capable of resisting the powerful recoil force and to stand the forceful balloon inflation performed to deploy the valve and to embed it in the aortic annulus, comprises a collapsible valvular structure and an expandable frame on which said valvular structure is mounted. The valvular structure is composed of physiologically compatible valvular tissue that is sufficiently supple and resistant to allow the valvular structure to be deformed from a closed state to an opened state. The valvular tissue forms a continuous surface and is provided with strut members that create stiffened zones which induce the valvular structure to follow a patterned movement in its expansion to its opened state and in its turning back to its closed state.

(21) **Appl. No.: 10/139,741**

(22) **Filed: May 2, 2002**

**Related U.S. Application Data**

(63) Continuation of application No. 09/795,803, filed on Feb. 28, 2001, which is a continuation of application No. 09/345,924, filed on Jul. 1, 1999, filed as 371 of international application No. PCT/EP97/07337, filed on Dec. 31, 1997.



**Edwards Lifesciences v. Boston Scientific Scimed**  
**IPR2017-01293, U.S. Patent 8,992,608**  
**Exhibit 2012**

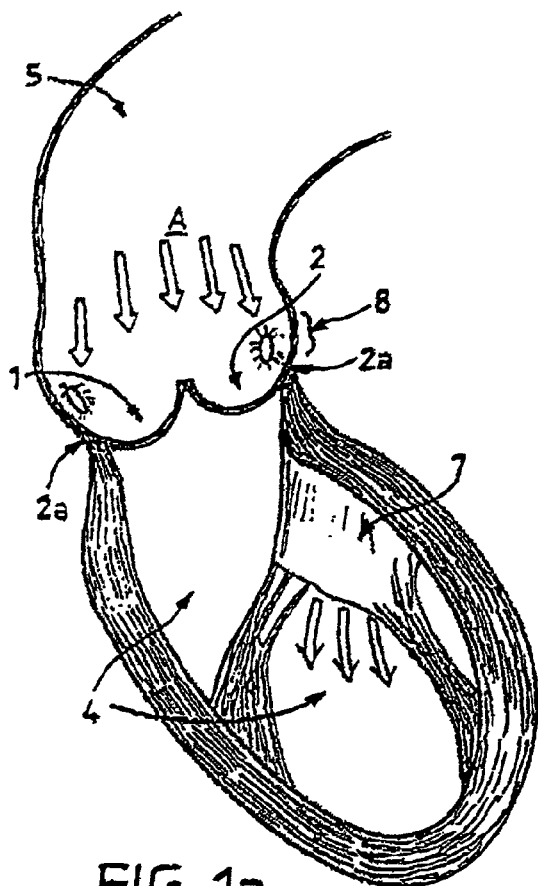


FIG. 1a

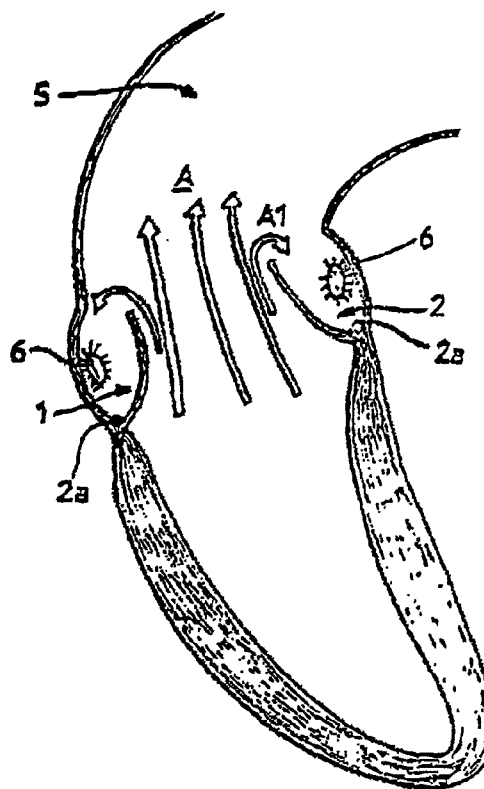


FIG. 1b

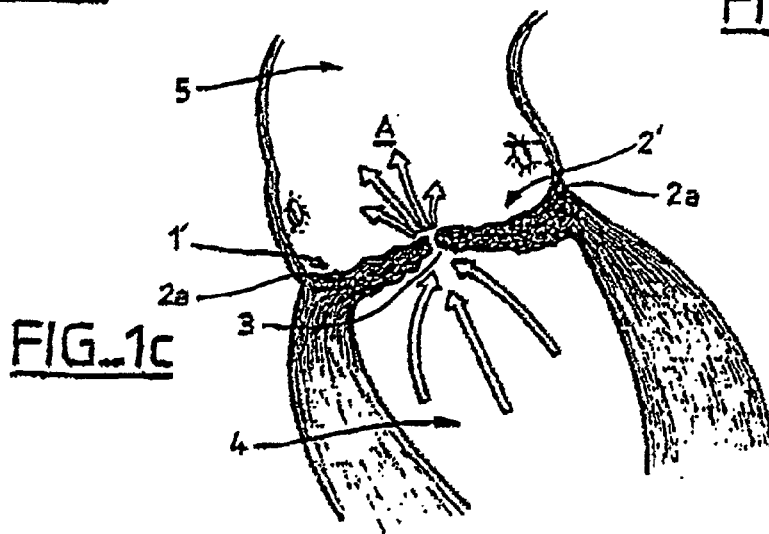


FIG. 1c

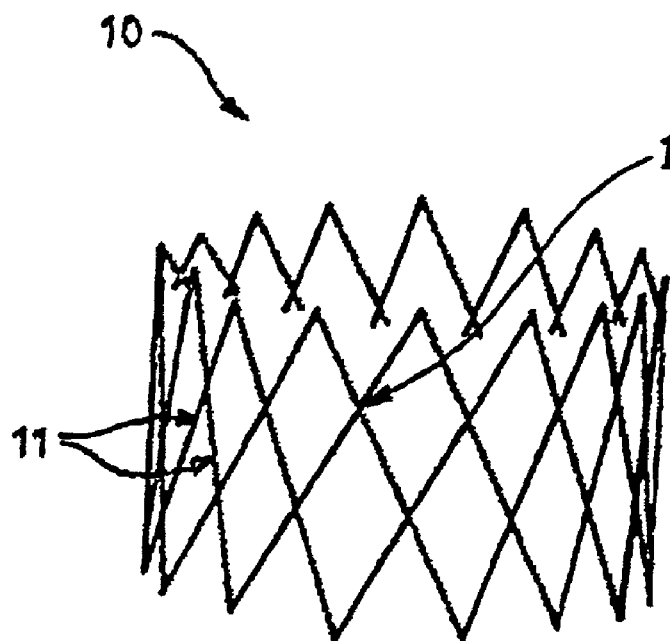


FIG. 2a



FIG. 2b

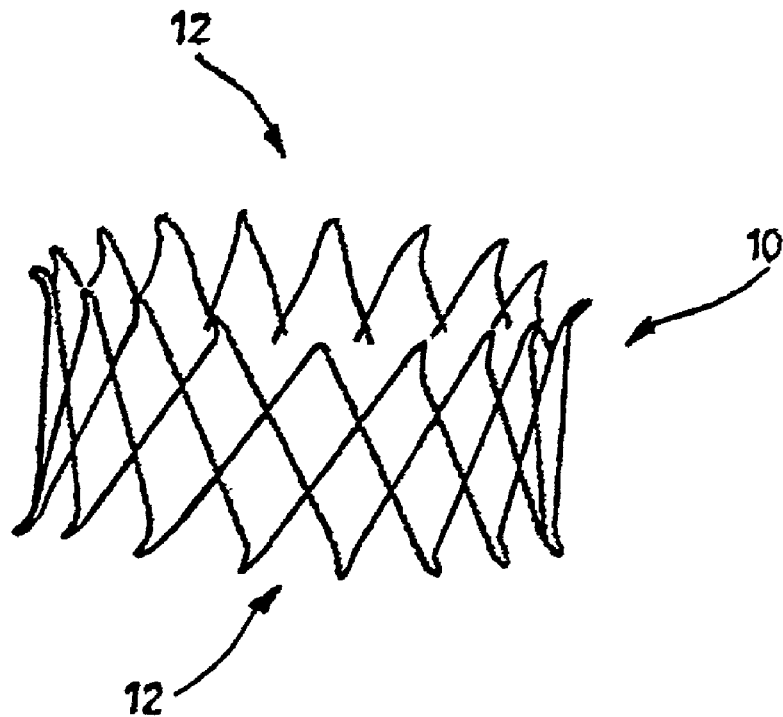


FIG. 3a

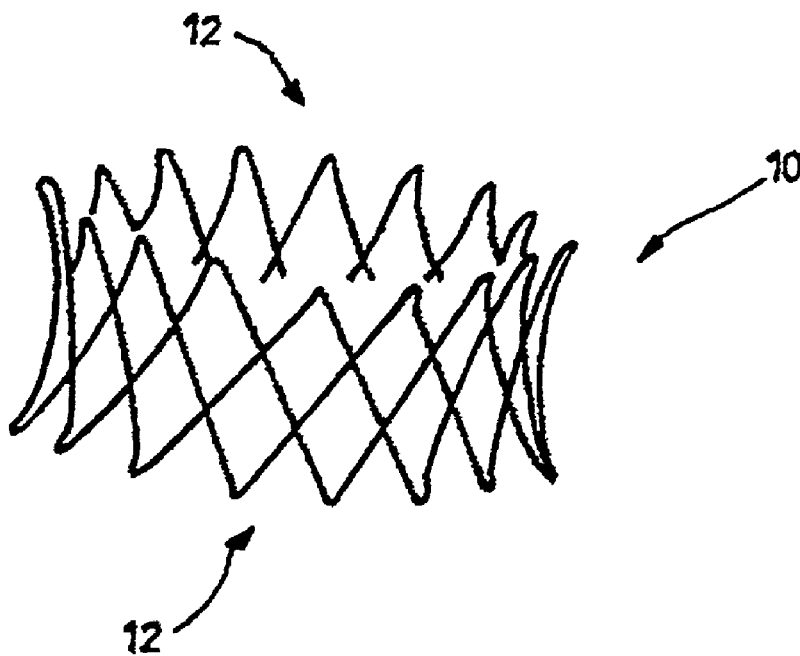
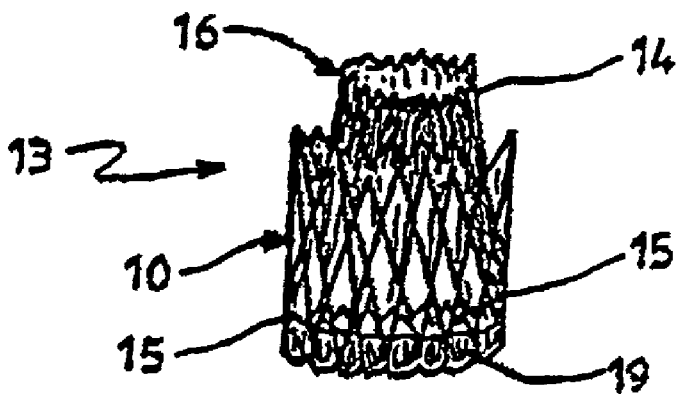
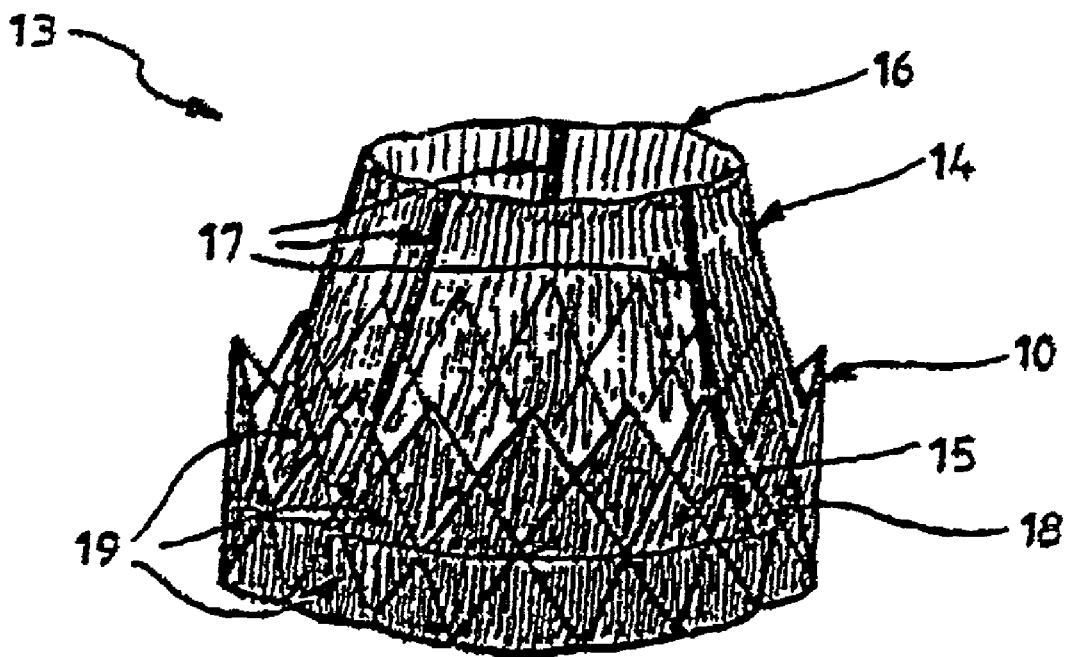


FIG. 3b



FIG\_4a



FIG\_4b

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