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Sarac et al.

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- (54) **PROSTHETIC CARDIAC VALVE AND METHOD FOR MAKING SAME**
- (75) Inventors: **Timur Paul Sarac**, Orange Village, OH (US); **Nicholas G. Smedira**, Moreland Hills, OH (US)
- (73) Assignee: **The Cleveland Clinic Foundation**, Cleveland, OH (US)

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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 377 days.

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Primary Examiner—Alvin J. Stewart

(74) *Attorney, Agent, or Firm*—Tarolli, Sundheim, Covell & Tummino LLP

(57)

ABSTRACT

A prosthetic valve for replacing a cardiac valve includes an expandable support member and at least two valve leaflets made of a first layer of biological material selected from peritoneal tissue, pleural tissue or pericardial tissue. A second layer of biological material is attached to the support member. The second layer is also made from peritoneal tissue, pleural tissue or pericardial tissue. The second layer includes a radially inwardly facing surface that defines a conduit for directing blood flow. The valve leaflets extend across the conduit to permit unidirectional flow of blood through the conduit. Methods for making and implanting the prosthetic valve are also provided.

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(65) **Prior Publication Data**

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Related U.S. Application Data

(60) Continuation-in-part of application No. 10/409,884, filed on Apr. 9, 2003, now Pat. No. 7,137,947, which is a division of application No. 09/908,764, filed on Jul. 19, 2001, now Pat. No. 6,579,307.

(51) **Int. Cl.**

A61F 2/06 (2006.01)
A61F 2/24 (2006.01)

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

(58) **Field of Classification Search** 623/1.24–1.26,
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See application file for complete search history.

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6 Claims, 13 Drawing Sheets

