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United States Patent [19]

Jayaraman

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5,855,597 [11] **Patent Number:**

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Attorney, Agent, or Firm-James E. Larson; Larson &

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[54]	STENT VALVE AND STENT GRAFT FOR PERCUTANEOUS SURGERY	
[75]	Inventor:	Swaminathan Jayaraman, Malleswaram, India
[73]	Assignee:	Iowa-India Investments Co. Limited , United Kingdom
[21]	Appl. No.	: 852,240
[22]	Filed:	May 7, 1997
	U.S. Cl	
[56]		References Cited

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[57] **ABSTRACT**

Primary Examiner—Michael J. Milano

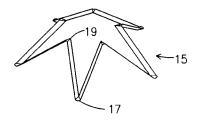
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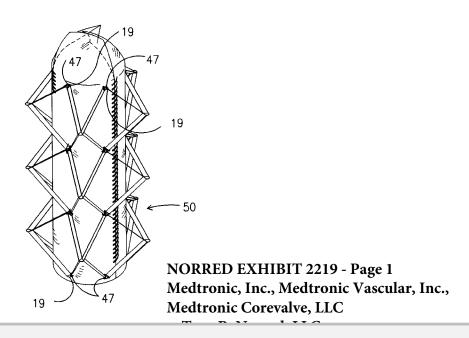
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Larson, P.A

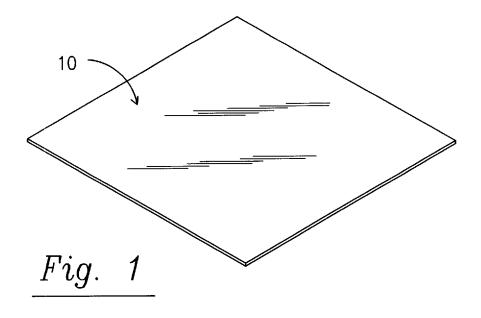
A star-shaped stent and replacement valve or replacement graft for use in repairing a damaged cardiac valve includes two to eight star-shaped members interconnected into a "chain". Once this "chain" has been created through interconnection of the star-shaped members, a central opening through all of the interconnected star-shaped members receives a replacement aortic valve tri-cuspid made of any suitable flexible and bio-compatible material. A catheter delivery system is used to deliver the stent with the aortic valve tri-cuspid to the desired site. The star-shaped stents are made by using a laser to cut out a plurality of flat star-shaped members with a plurality of outwardly and inwardly directed points. The outwardly directed points are bent so that they face away from a plane defined by the inwardly directed points and then a series of such stents are fastened together in a chain.

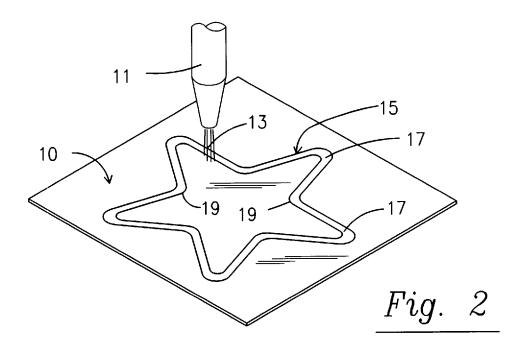
27 Claims, 10 Drawing Sheets

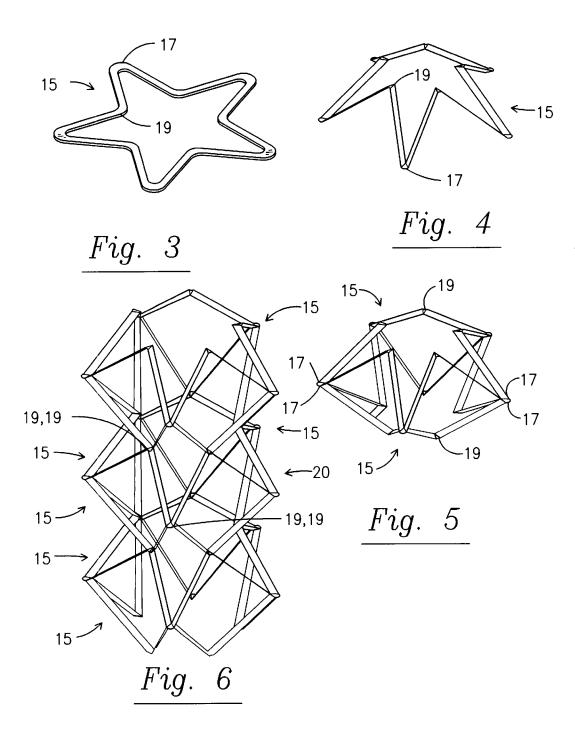


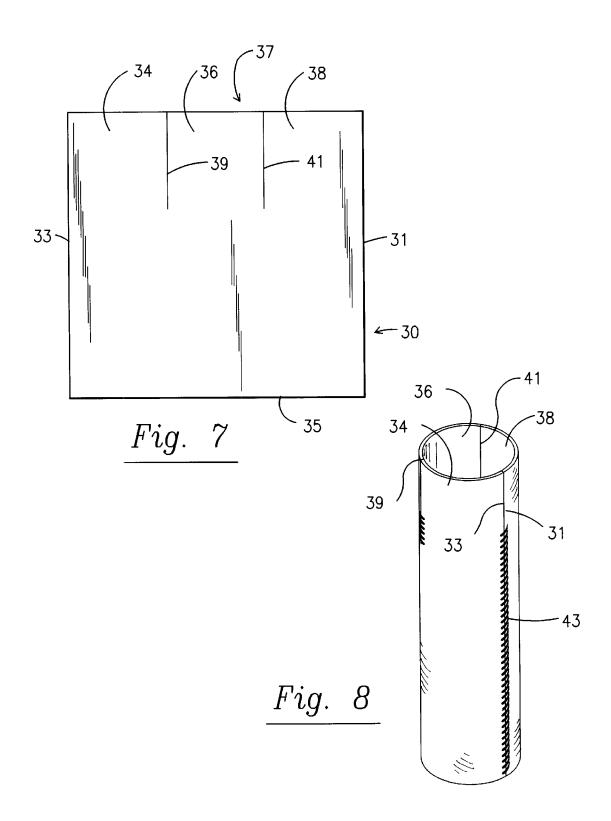




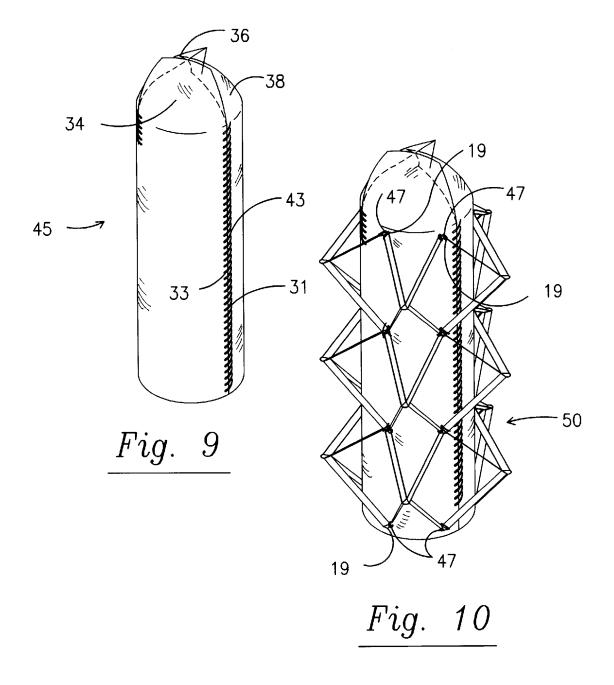














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