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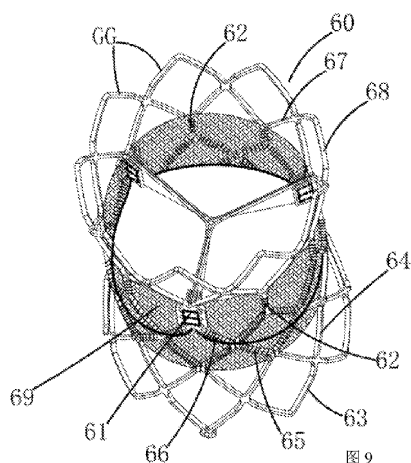
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(54) Title: CONNECTING STRUCTURE FOR STENT AND VALVE LEAFLETS, AND INTERVENTIONAL PULMONARY VALVE AND INTERVENTIONAL AORTIC VALVE USING SAME

(54) 发明名称: 一种支架和瓣叶的连接结构及应用该连接结构的介入肺动脉瓣和介入主动脉瓣



(57) Abstract: Provided are a connecting structure for a stent (10) and valve leaflets (20) which is used for an interventional pulmonary valve or an interventional aortic valve, and an interventional pulmonary valve and an interventional aortic valve using the connecting structure. A stent (10) is a metal net pipe, valve leaflets (20) are three sector-shaped valve leaflets (20) arranged on an inner side of the stent (10), each of the three sector-shaped valve leaflets (20) is provided with a free edge (21), an arc-shaped bottom side (22) and valve leaflet joint connecting parts (23) extending on two sides, three connecting columns (11) are uniformly distributed on the metal net pipe, and after the joint connecting parts (23) on two sides of all the valve leaflets (20) are folded at inner sides of all the connecting columns (11) to form buffering parts (24), the joint connecting parts are connected and fixed to the connecting columns (11) by means of sutures. The connecting structure for the stent (10) and the valve leaflets (20) can avoid stress concentration when the valve leaflets (20) are opened and closed and friction between the valve leaflets and the stent (10), and achieves a hemodynamic effect and a durability function similar to those of a bioprosthetic valve.

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本国际公布：

— 包括国际检索报告(条约第21条(3))。

(57) 摘要：一种用于介入肺动脉瓣或介入主动脉瓣的支架(10)和瓣叶(20)的连接结构及应用该连接结构的介入肺动脉瓣和介入主动脉瓣，其中的支架(10)为金属网管，瓣叶(20)为三个设置于支架(10)内侧的扇形瓣叶(20)，三个扇形瓣叶(20)均具有游离缘(21)、弧形底边(22)以及延伸至两侧的瓣叶交界连接部(23)，金属网管上均布有三个连接柱(11)，每个瓣叶(20)两侧的交界连接部(23)于每个连接柱(11)内侧翻折形成缓冲部(24)后通过缝线连接并固定于连接柱(11)。该支架(10)和瓣叶(20)的连接结构可避免瓣叶(20)开启与关闭时的应力集中和与支架(20)之间产生摩擦，实现了与生物瓣相近的血流动力学效果和类似的耐久性功能。