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(54) Title: SPLIT-TYPE PRECISELY ANCHORABLE INTERVENTIONAL VALVE-IN-RING SYSTEM

(54) 发明名称: 一种分体式可精准锚定的介入环中瓣系统

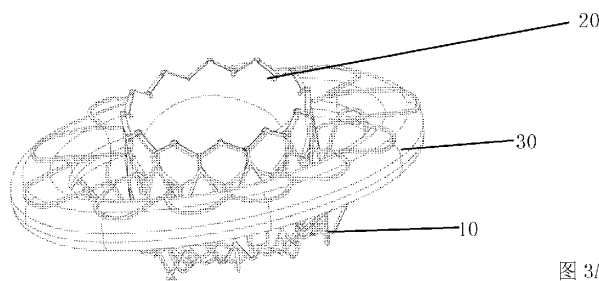


图 3A

(57) Abstract: A split-type precisely anchorable interventional valve-in-ring system, comprising a split interventional valve-in-ring anchoring stent (10) and an interventional artificial biological valve-in-ring (20); the shape and structure of the interventional valve-in-ring anchoring stent (10) are matched with a valve ring and real structures above and below a valve after a three-dimensional reconstruction of image data of a patient who has had a valvuloplasty ring (30) implanted and then suffered from postoperative valve failure, the interventional valve-in-ring anchoring stent (10) is firstly delivered into the dysfunctional annulus of the patient for release, deformation and contraposition joint having supra-annular and sub-annular tissues of the dysfunctional annulus of the patient; the interventional artificial biological valve-in-ring (20) is delivered into the interventional valve-in-ring anchoring stent (10) for release, the valve stent of the interventional artificial biological valve-in-ring (20) is deformed and expanded to a functional state of the interventional valve-in-ring, so that the interventional valve-in-ring anchoring stent (10) is deformed again and combined with the expanded interventional valve-in-ring; meanwhile, the second deformation of the interventional valve-in-ring anchoring stent (10) causes the interventional valve-in-ring anchoring stent (10) to be combined with a sub-annular structure to be anchored thereto.

WO 2023/088392 A1

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TD, TG)。

本国际公布:

— 包括国际检索报告 (条约第21条(3))。

(57) 摘要: 一种分体式可精准锚定的介入环中瓣系统, 包括分体的介入环中瓣锚定支架 (10) 和介入人工生物环中瓣 (20), 介入环中瓣锚定支架 (10) 的形态和结构与此前植入过瓣膜成形环 (30) 发生后瓣膜失功的患者影像数据经三维重建后的瓣环及瓣上和瓣下的真实结构相匹配, 介入环中瓣锚定支架 (10) 首先被输送至患者失功瓣环内释放、形变、与失功瓣环的瓣上和瓣下组织对位接合; 介入人工生物环中瓣 (20) 被输送至介入环中瓣锚定支架 (10) 内释放, 介入人工生物环中瓣 (20) 的瓣膜支架形变扩启至介入环中瓣的功能状态, 使介入环中瓣锚定支架 (10) 再次形变与扩启的介入环中瓣结合, 同时介入环中瓣锚定支架 (10) 的再次形变致介入环中瓣锚定支架 (10) 与瓣下结构再次结合而锚定。