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(54) Title: SPLIT-TYPE PRECISELY ANCHORED INTERVENTIONAL MITRAL VALVE SYSTEM

(54) 发明名称: 一种分体式可精准锚定的介入二尖瓣系统

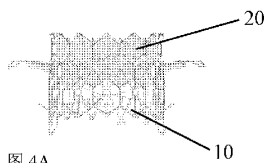


图 4A

(57) Abstract: A split-type precisely anchored interventional mitral valve system, comprising an interventional mitral valve anchor stent (10) and an interventional bioprosthetic mitral valve (20) which are arranged separately, wherein the morphology and structure of the interventional mitral valve anchor stent (10) match a real mitral valve structure reconstructed by a patient's imaging data through 3D reconstruction, and the interventional mitral valve anchor stent (10) is first delivered to the patient's mitral valve position and is then released, deformed, and precisely aligned and attached to the supralvalvular tissue and subvalvular tissue at the mitral valve position in a personalized manner; and the interventional bioprosthetic mitral valve (20) is delivered into the interventional mitral valve anchor stent (10) for release, the interventional bioprosthetic mitral valve (20) is released and deformed to be deployed in a functional state, the interventional mitral valve anchor stent (10) deforms again and engages with the deployed interventional bioprosthetic mitral valve (20), and meanwhile, the further deformation of the interventional mitral valve anchor stent (10) results in the anchoring of the interventional mitral valve anchor stent (10) to the subvalvular tissue as previously designed. The split-type precisely anchored interventional mitral valve system is designed based on three-dimensional reconstruction, and can achieve personalized and precise anchoring of the interventional mitral valve.

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WO 2023/088369 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二尖瓣系统，包括分体的介入二尖瓣锚定支架（10）和介入人工生物二尖瓣（20），介入二尖瓣锚定支架（10）的形态和结构与患者影像数据经三维重建后的二尖瓣真实结构相匹配，介入二尖瓣锚定支架（10）先被输送至患者二尖瓣位释放、形变、与患者二尖瓣位瓣上和瓣下的组织个性化精准对位接合；介入人工生物二尖瓣（20）被输送至介入二尖瓣锚定支架（10）内释放，介入人工生物二尖瓣（20）被释放形变扩启至功能状态，使介入二尖瓣锚定支架（10）再次形变与扩启的介入人工生物二尖瓣（20）结合，同时介入二尖瓣锚定支架（10）的再次形变致介入二尖瓣锚定支架（10）与瓣下组织完成事先预设的结合而锚定。该分体式可精准锚定的介入二尖瓣系统基于三维重建而设计的系统，可以实现介入二尖瓣个性化的精准锚定。