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(54) Title: A DEVICE AND METHOD FOR TEMPORARY OR PERMANENT SUSPENSION OF AN IMPLANTABLE SCAFFOLDING CONTAINING AN ORIFICE FOR PLACEMENT OF A PROSTHETIC OR BIO-PROSTHETIC VALVE

(57) Abstract: In a surgical method for improving cardiac function, an implantable scaffold or valve support device is inserted inside a patient's heart and attached to the heart in a region adjacent to a natural mitral or other heart valve. The scaffold or valve support device defines an orifice and, after the attaching of the scaffold or valve support device to the heart, or temporary support while native valve leaflets and/or subvalvular structures are captured, a prosthetic or bio-prosthetic valve seated in the orifice, and the native valve may be retracted into the scaffold/replacement assembly to create a gasket for sealing the complex.



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INTERNATIONAL SEARCH REPORT

International application No.
PCT/US2012/023782**A. CLASSIFICATION OF SUBJECT MATTER****A61F 2/24(2006.01)i, A61B 17/34(2006.01)i, A61M 25/01(2006.01)i**

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

A61F 2/24; A61B 17/10

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Korean utility models and applications for utility models

Japanese utility models and applications for utility models

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

eKOMPASS(KIPO internal) & Keywords: heart valve, prosthetic, scaffold, orifice, fastening element, leaflet, catheter, tether, sleeve, closure member, capture device, fixation device, etc.

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X A	US 2010-0262232 A1 (LON SOUTHERLAND ANNEST) 14 October 2010 See paragraphs 0032, 0033, 0107, 0108, and 0143; Figs. 2-21 and 23-43; claims 1 and 18.	1-3,5,6,9-11,14-17 ,20,21,25 4,7,8,12,13,18,19 ,22-24,26-40
A	US 2010-0070027 A1 (PHILIPP BONHOEFFER and YOUNES BOUDJEMLINE) 18 March 2010 See the whole document.	1-40
A	US 6419696 B1 (MARK ORTIZ et al.) 16 July 2002 See the whole document.	1-40
A	US 7569062 B1 (STEPHEN T. KUEHN et al.) 04 August 2009 See the whole document.	1-40
A	US 2003-0083742 A1 (PAUL A. SPENCE and MARK ORTIZ) 01 May 2003 See the whole document.	1-40

☐ Further documents are listed in the continuation of Box C.☒ See patent family annex.

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