

Title (en)
TRANSCATHETER VALVE LEAFLET REPLACEMENT DEVICE, DELIVERY, GUIDING AND FIXATION SYSTEM AND METHOD FOR SAME

Title (de)
TRANSKATHETER-KLAPPENSEGELERSATZVORRICHTUNG, FREISETZUNGS-, FÜHRUNGS- UND BEFESTIGUNGSSYSTEM UND VERFAHREN DAFÜR

Title (fr)
DISPOSITIF DE REMPLACEMENT DE FEUILLET VALVULAIRE TRANSCATHÉTER, SYSTÈME DE DISTRIBUTION, DE GUIDAGE ET DE FIXATION ET PROCÉDÉ ASSOCIÉS

Publication
EP 4117584 A4 20240410 (EN)

Application
EP 21768408 A 20210310

Priority
• US 202062988253 P 20200311
• US 2021021764 W 20210310

Abstract (en)
[origin: WO2021183679A1] A transcatheter heart valve leaflet replacement system includes a valve prosthesis and a multi-stage, multi-lumen (MSML) heart valve delivery and implantation system for guiding and implanting the prosthesis to a native annulus. The prosthesis includes a stent frame including an upper atrial flared portion and a lower ventricular portion, a plurality of prosthetic leaflets, and at least one lining skirt. The prosthesis is configurable or otherwise sizable to fit in the MSML delivery and implantation system and to subsequently be selectively expanded to an operative size and position once deployed within the annulus. A portion of the prosthesis can be configured to couple with dual guiding and fixation (DGF) members to guide and fix the prosthesis to the annulus. In one aspect, the MSML delivery and implantation system includes a main docking system, a DGF member delivery system, and a valve housing, positioning, and locking system.

IPC 8 full level
A61F 2/24 (2006.01)

CPC (source: EP)
A61B 17/064 (2013.01); **A61F 2/2418** (2013.01); **A61B 2017/0649** (2013.01); **A61F 2220/0008** (2013.01); **A61F 2220/0016** (2013.01); **A61F 2230/0091** (2013.01)

Citation (search report)
• [X] US 2016235526 A1 20160818 - LASHINSKI RANDALL [US], et al
• [A] US 2019350709 A1 20191121 - MAISANO FRANCESCO [CH], et al
• [A] WO 2019195860 A2 20191010 - VDYNE LLC [US]
• See references of WO 2021183679A1

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)
WO 2021183679 A1 20210916; CN 115461016 A 20221209; EP 4117584 A1 20230118; EP 4117584 A4 20240410; JP 2023517066 A 20230421

DOCDB simple family (application)
US 2021021764 W 20210310; CN 202180031063 A 20210310; EP 21768408 A 20210310; JP 2022554190 A 20210310