

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT8066307

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
W. L. GORE & ASSOCIATES, INC.	03/08/2023
RECEIVING PARTY DATA	
Name:	EDWARDS LIFESCIENCES CORPORATION
Street Address:	ONE EDWARDS WAY
City:	IRVINE
State/Country:	CALIFORNIA
Postal Code:	92614
PROPERTY NUMBERS Total: 7	
Property Type	Number
Application Number:	17183014
Application Number:	17909501
Application Number:	17609176
Patent Number:	10881507
Patent Number:	9968443
Patent Number:	9144492
Patent Number:	9101469
CORRESPONDENCE DATA	
Fax Number:	
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.</i>	
Phone:	9492507377
Email:	mariel_sandoval@edwards.com
Correspondent Name:	MARIEL SANDOVAL
Address Line 1:	ONE EDWARDS WAY
Address Line 4:	IRVINE, CALIFORNIA 92614
ATTORNEY DOCKET NUMBER:	GORE MATTERS
NAME OF SUBMITTER:	MARIEL SANDOVAL
SIGNATURE:	/Mariel Sandoval/
DATE SIGNED:	07/19/2023

Total Attachments: 9

source=Gore to Edwards Assignment_7_19_23#page1.tif
source=Gore to Edwards Assignment_7_19_23#page2.tif
source=Gore to Edwards Assignment_7_19_23#page3.tif
source=Gore to Edwards Assignment_7_19_23#page4.tif
source=Gore to Edwards Assignment_7_19_23#page5.tif
source=Gore to Edwards Assignment_7_19_23#page6.tif
source=Gore to Edwards Assignment_7_19_23#page7.tif
source=Gore to Edwards Assignment_7_19_23#page8.tif
source=Gore to Edwards Assignment_7_19_23#page9.tif

SCHEDULE B

PATENT ASSIGNMENT

W. L. Gore & Associates, Inc., a Delaware corporation, having an address at 555 Paper Mill Road, Newark, Delaware 19711 (hereafter, "Assignor"), owns the entire right, title and interest, in, to and under the patents and/or applications for patent listed on Exhibit A attached hereto.

1. Assignment. In exchange for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, Assignor hereby irrevocably conveys, transfers and assigns to Edwards Lifesciences Corporation, a Delaware corporation ("Assignee"), and Assignee hereby accepts from Assignor the conveyance, transfer and assignment of, all worldwide right, title and interest in and to the patents and patent applications listed above and all inventions, improvements and discoveries disclosed in such patents and patent applications, as well as in and to any and all issuances, substitutions, divisions, continuations, continuations-in-part, reissues, extensions, reexaminations, renewals, extensions, or applications which claim common priority to or with, one or more patents or patent applications listed above or patents issued thereon, and any patents of confirmation, registration and importation of the same (e.g., whether or not specifically identified above, collectively, "Patents"). Such assignment includes (a) all rights of any kind whatsoever accruing under any of the foregoing provided by applicable law of any jurisdiction, by international treaties and conventions and otherwise throughout the world, relating to any of and all of the Patents, (b) all rights to claim priority in or to, any of the applications or patents identified above, (c) any and all royalties, fees, income, payments and other proceeds now or hereafter due or payable with respect to any and all of the Patents, (d) the full and complete right to file patent applications in the name of Assignee or Assignor, at Assignee's or its designee's election, on the aforesaid inventions, improvements, discoveries and applications in all countries of the world, and (e) any and all choses in action, demands, claims and causes of action, with respect to any of the foregoing, whether accruing before, on and/or after the date hereof, including all rights to and claims for damages, restitution and injunctive and other legal and equitable relief for past, present and future infringement, with the right but no obligation to sue for such legal and equitable relief and to collect, or otherwise recover, any such damages.

2. Recordation and Further Actions. Assignor authorizes the Commissioner for Patents, the Commissioner for Trademarks and any other governmental officials to record and register this Assignment upon request by Assignee. Assignor shall take such steps and actions following the date hereof, including the execution of any documents, files, registrations, or other similar items, to ensure that the Patents is properly assigned to Assignee, or any assignee or successor thereto, at Assignee's expense.

3. Counterparts. This Assignment may be executed in counterparts, each of which shall be deemed an original, but all of which together shall be deemed to be one and the same agreement. A signed copy of this Assignment delivered by facsimile, e-mail, JPEG, PDF or other means of electronic transmission shall be deemed to have the same legal effect as delivery of an original signed copy of this Patent Assignment.

4. Successors and Assigns. This Assignment shall be binding upon and shall inure to the benefit of the parties hereto and their respective successors and assigns.

5. Governing Law. This Assignment and any claim, controversy, dispute or cause of action (whether in contract, tort or otherwise) based upon, arising out of or relating to this Assignment and the transactions contemplated hereby shall be governed by, and construed in accordance with, the laws of the United States and the State of Delaware, without giving effect to any choice or conflict of law provision or rule (whether of the State of Delaware or any other jurisdiction).

IN WITNESS WHEREOF, Each of Assignor and Assignee have duly executed and delivered this Assignment as of the date indicated below.

"Assignor"

W. L. GORE & ASSOCIATES, INC.

By: _____

Name: _____

Title: _____

Date: _____

"Assignee"

EDWARDS LIFESCIENCES CORPORATION

By:  _____

Name: Scott Ullem

Title: Chief Financial Officer

Date: 8 March 2023

B-2

Schedule B - Patent Assignment

PATENT
REEL: 064314 FRAME: 0724

5. Governing Law. This Assignment and any claim, controversy, dispute or cause of action (whether in contract, tort or otherwise) based upon, arising out of or relating to this Assignment and the transactions contemplated hereby shall be governed by, and construed in accordance with, the laws of the United States and the State of Delaware, without giving effect to any choice or conflict of law provision or rule (whether of the State of Delaware or any other jurisdiction).

IN WITNESS WHEREOF, Each of Assignor and Assignee have duly executed and delivered this Assignment as of the date indicated below.

"Assignor"

W. L. GORE & ASSOCIATES, INC.

By: Bret A. Snyder

Name: Bret A. Snyder

Title: CEO

Date: March 8, 2023

"Assignee"

EDWARDS LIFESCIENCES CORPORATION

By: _____

Name: _____

Title: _____

Date: _____

EXHIBIT A

PATENTS AND PATENT APPLICATIONS

Patent Reference	Country	Patent Application Title	Status	Application Number	Priority Date	Filed Date	Publication Number	Publication Date	Patent No.	Grant Date
954AU01	Australia	Leaflet Support Devices and Methods of Making and Using The Same	Granted	2016336369	2015-10-06	2016-10-06	2016336369	2018-11-21		
954AU02	Australia	Leaflet Support Devices and Methods of Making and Using The Same	Granted	2019206121	2015-10-06	2016-10-06	2019206121	2020-10-29		
954CA01	Canada	Leaflet Support Devices and Methods of Making and Using The Same	Granted	3001191	2015-10-06	2016-10-06	3001191	2020-05-05		
954CN01	China	Leaflet Support Devices and Methods of Making and Using The Same	Granted	201680071197.5	2015-10-06	2016-10-06	108288739	2018-07-17	108288739	2020-06-26
954EP01	European Patent	Leaflet Support Devices and Methods of Making and Using The Same	Published	16787617.6	2015-10-06	2016-10-06	3359091	2018-08-15		
954HK01	Hong Kong	Leaflet Support Devices and Methods of Making and Using The Same	Abandoned	19100207.8	2015-10-06	2016-10-06	1257850	2019-11-01		
954JP01	Japan	Leaflet Support Devices and Methods of Making and Using The Same	Granted	2018-517776	2015-10-06	2016-10-06	2018-529476	2018-10-11	6751140	2020-08-17
954US01	United States of America	Leaflet Support Devices and Methods of Making and Using The Same	Expired	62237856		2015-10-06				
954US02	United States of America	Leaflet Support Devices and Methods of Making and Using The Same	Granted	15/286031	2015-10-06	2016-10-05	2017-0095332	2017-04-06	10022223	2018-07-17
954US03	United States of America	Leaflet Support Devices and Methods of Making and Using The Same	Granted	16/024252	2015-10-06	2018-06-29	2018-0303611	2018-10-25	10806576	2020-10-20
954US04	United States of America	Leaflet Support Devices and Methods of Making and Using The Same	Published	17/038022	2015-10-06	2018-06-29	2021-0059817	2021-03-04		
954WCO1	Patent Cooperation Treaty	Leaflet Support Devices and Methods of Making and Using The Same	Expired	US2016/055644	2016-10-05	2016-10-06	2017/062548	2017-04-13		
1506AU01	Australia	LEAFLET FRAME ATTACHMENT FOR PROSTHETIC VALVES	Granted	2018334191	2017-09-12	2018-09-12	2018334191	2021-07-22		
1506AU02	Australia	LEAFLET FRAME ATTACHMENT FOR PROSTHETIC VALVES	Abandoned	2021204801	2017-09-12	2018-09-12				
1506CA01	Canada	LEAFLET FRAME ATTACHMENT FOR PROSTHETIC VALVES	Allowed	3071133	2017-09-12	2018-09-12				
1506CA02	Canada	LEAFLET FRAME ATTACHMENT FOR PROSTHETIC VALVES	Patent Application	3182971	2017-09-12	2018-09-12				
1506CN01	China	LEAFLET FRAME ATTACHMENT FOR PROSTHETIC VALVES	Granted	201880058419.9	2017-09-12	2018-09-12	111182856	2020-05-19	201880058419.9	2022-04-29
1506CN02	China	LEAFLET FRAME ATTACHMENT FOR PROSTHETIC VALVES	Published	202210398162.1	2017-09-12	2018-09-12	115566890	2023-01-06		
1506EP01	European Patent	LEAFLET FRAME ATTACHMENT FOR PROSTHETIC VALVES	Published	18779540.6	2017-09-12	2018-09-12	3681440	2020-07-22		
1506JP01	Japan	LEAFLET FRAME ATTACHMENT FOR PROSTHETIC VALVES	Granted	2020-514720	2017-09-12	2018-09-12	2020-533113	2020-11-19	6974601	2021-11-08
1506US01	United States of America	LEAFLET FRAME ATTACHMENT FOR PROSTHETIC VALVES	Expired	62/557586		2017-09-12				
1506US02	United States of America	LEAFLET FRAME ATTACHMENT FOR PROSTHETIC VALVES	Granted	16/128651	2017-09-12	2018-09-12	US-2019-0076245-A1	2019-03-14	10959842	2021-03-30
1506US03	United States of America	LEAFLET FRAME ATTACHMENT FOR PROSTHETIC VALVES	Published	17/183014	2017-09-12	2018-09-12	2021-0177589	2021-06-17		
1506WCO1	Patent Cooperation Treaty	LEAFLET FRAME ATTACHMENT FOR PROSTHETIC VALVES	Expired	US2018/050764	2017-09-12	2018-09-12	WO 2019/055577	2019-03-21		
1534AU01	Australia	MEDICAL VALVE AND LEAFLET PROMOTING TISSUE INGROWTH	Granted	2018362079	2017-10-31	2018-09-12	2018362079	2022-01-06		
1534AU02	Australia	MEDICAL VALVE AND LEAFLET PROMOTING TISSUE INGROWTH	Patent Application	2021286397	2017-10-31	2018-09-12				
1534CA01	Canada	MEDICAL VALVE AND LEAFLET PROMOTING TISSUE INGROWTH	Patent Application	3078606	2017-10-31	2018-09-12				
1534CN01	China	MEDICAL VALVE AND LEAFLET PROMOTING TISSUE INGROWTH	Published	201880070794.5	2017-10-31	2018-09-12	111295158	2020-06-16		

2026US04	United States of America	TELESCOPING PROSTHETIC VALVE WITH RETENTION ELEMENT	Published	17/736704	2019-03-01	2020-02-28	2022-0257369	2022-08-18
2026WC01	Patent Cooperation Treaty	TELESCOPING PROSTHETIC VALVE WITH RETENTION ELEMENT	Expired	US2020/020550	2019-03-01	2020-02-29	2020180748	2020-09-10
2051AU02	Australia	Prosthetic Valve with Asymmetric Leaflets	Patent Application	2020324465	2019-08-08	2020-08-10		
2051CA02	Canada	Prosthetic Valve with Asymmetric Leaflets	Patent Application	3143781	2019-08-08	2020-08-10		
2051CN02	China	Prosthetic Valve with Asymmetric Leaflets	Published	2020800562464	2019-08-08	2020-08-10	114206267	2022-03-18
2051EP02	European Patent	Prosthetic Valve with Asymmetric Leaflets	Published	20761423.1	2019-08-08	2020-08-10	4009909	2022-06-15
2051JP02	Japan	Prosthetic Valve with Asymmetric Leaflets	Published	2022-507657	2019-08-08	2020-08-10	2022-543850	2022-10-14
2051US01	United States of America	Prosthetic Valve with Asymmetric Leaflets	Expired	62/684559	2019-08-08	2019-08-08		
2051US02	United States of America	Prosthetic Valve with Asymmetric Leaflets	Published	17/632948	2019-08-08	2020-08-10	2022-0338980	2022-10-27
2051WC01	Patent Cooperation Treaty	Prosthetic Valve with Asymmetric Leaflets	Expired	US2020/045614	2019-08-08	2020-08-10	WO 2021/026531	2021-02-11
2133AU01	Australia	Valve with Multi-Part Frame and Associated Resilient Bridging Features	Patent Application	2020270993	2019-04-12	2020-04-13		
2133CA01	Canada	Valve with Multi-Part Frame and Associated Resilient Bridging Features	Patent Application	3131177	2019-04-12	2020-04-13		
2133CN01	China	Valve with Multi-Part Frame and Associated Resilient Bridging Features	Published	202080043443.2	2019-04-12	2020-04-13	114007546	2022-02-01
2133EP01	European Patent	Valve with Multi-Part Frame and Associated Resilient Bridging Features	Published	20722947.7	2019-04-12	2020-04-13	39652790	2022-02-16
2133JP01	Japan	Valve with Multi-Part Frame and Associated Resilient Bridging Features	Published	2021-560035	2019-04-12	2020-04-13	2022-526188	2022-05-23
2133US01	United States of America	ASSOCIATED RESILIENT BRIDGING FEATURES	Expired	62/633176		2019-04-12		
2133US02	United States of America	VALVE WITH MULTI-PART FRAME AND ASSOCIATED RESILIENT BRIDGING FEATURES	Published	17/603256	2019-04-12	2020-04-13	2022-0163831	2022-06-16
2133WC01	Patent Cooperation Treaty	Valve with Multi-Part Frame and Associated Resilient Bridging Features	Expired	US2020/027921	2019-04-12	2020-04-13	WO2020/210794	2020-10-15
2144US01	United States of America	LEAFLET ATTACHMENT MECHANISM AND STRAIGHT ATTACHMENT STRUTS	Expired	62/684600		2020-03-03		
2144US02	United States of America	LEAFLET ATTACHMENT MECHANISM AND STRAIGHT ATTACHMENT STRUTS	Patent Application	17/909501	2020-03-03	2021-03-02		
2144WC01	Patent Cooperation Treaty	LEAFLET ATTACHMENT MECHANISM AND STRAIGHT ATTACHMENT STRUTS	Expired	US2021/020455	2020-03-03	2021-03-02	WO2021/178400	2021-09-10
2154AU02	Australia	VALVED CONDUIT WITH EXPANDABLE CANAL	Patent Application	2020267416	2019-05-06	2020-05-06		
2154CA02	Canada	VALVED CONDUIT WITH EXPANDABLE CANAL	Patent Application	3134267	2019-05-06	2020-05-06		
2154CN02	China	VALVED CONDUIT WITH EXPANDABLE CANAL	Patent Application	20208003575.7	2019-05-06	2020-05-06		
2154EP02	European Patent	VALVED CONDUIT WITH EXPANDABLE CANAL	Published	20728853.1	2019-05-06	2020-05-06	3965694	2022-03-16
2154JP02	Japan	VALVED CONDUIT WITH EXPANDABLE CANAL	Published	2021-566095	2019-05-06	2020-05-06	2022-531488	2022-07-08
2154US01	United States of America	VALVED CONDUIT WITH EXPANDABLE CANAL	Expired	62/643911	2019-05-06	2019-05-06		
2154US02	United States of America	VALVED CONDUIT WITH EXPANDABLE CANAL	Patent Application	17/609176	2019-05-06	2020-05-06		
2154WC01	Patent Cooperation Treaty	VALVED CONDUIT WITH EXPANDABLE CANAL	Expired	US2020/031597	2019-05-06	2020-05-06	2020227359	2020-11-12
2298AU03	Australia	Valved Conduit Prostheses	Patent Application	2021259619	2020-04-23	2021-04-23		
2298CA03	Canada	Valved Conduit Prostheses	Patent Application	3174105	2020-04-23	2021-04-23		
2298CN03	China	Valved Conduit Prostheses	Published	202180030316.3	2020-04-23	2021-04-23	115515530	2022-12-23
2298EP03	European Patent	Valved Conduit Prostheses	Published	21725334.3	2020-04-23	2021-04-23	4136728	2023-03-01
2298JP03	Japan	Valved Conduit Prostheses	Patent Application	2022-564569	2020-04-23	2021-04-23		
2298US01	United States of America	Valved Conduit Prostheses	Expired	63/014124	2020-04-23	2021-04-23		
2298US02	United States of America	Valved Conduit Prostheses	Expired	63/015373	2020-04-24	2020-04-24		
2298US03	United States of America	Valved Conduit Prostheses	Patent Application	17/921008	2020-04-23	2021-04-23		
2298WC03	Patent Cooperation Treaty	Valved Conduit Prostheses	Expired	US2021/028814	2020-04-23	2021-04-23	US2021/216982	2021-10-28

MP/476CA04	Canada	PROSTHETIC VALVES, FRAMES AND LEAFLETS AND METHODS THEREOF	Patent Application	3182781	2012-12-19	2013-12-19														
MP/476CN	China	PROSTHETIC VALVES, FRAMES AND LEAFLETS AND METHODS THEREOF	Granted	201380065833.X	2013-03-15	2013-12-19	104863999		2015-09-02	201380065833.X	2017-09-05									
MP/476CNO2	China	PROSTHETIC VALVES, FRAMES AND LEAFLETS AND METHODS THEREOF	Granted	201710667323.X	2013-03-15	2013-12-19	107307924		2017-11-03	201710667323.X	2020-04-10									
MP/476DE01	Germany (Federal Republic of)	LEAFLETS AND METHODS THEREOF	Granted	13824700.2	2013-03-15	2013-12-19														
MP/476DE02	Germany (Federal Republic of)	PROSTHETIC VALVES, FRAMES AND LEAFLETS AND METHODS THEREOF	Granted	17194473.9	2013-03-15	2013-12-19	2934392		2015-10-28	2934392	2018-02-07									
MP/476EP	European Patent	PROSTHETIC VALVES, FRAMES AND LEAFLETS AND METHODS THEREOF	Granted	13824700.2	2013-03-15	2013-12-19	3298988		2018-03-28	3298988	2022-06-29									
MP/476EP02	European Patent	PROSTHETIC VALVES, FRAMES AND LEAFLETS AND METHODS THEREOF	Granted	17194473.9	2013-03-15	2013-12-19	3298988		2018-03-28	3298988	2022-06-29									
MP/476EP03	European Patent	PROSTHETIC VALVES, FRAMES AND LEAFLETS AND METHODS THEREOF	Published	22177518.2	2013-03-15	2013-12-19	4082483		2022-11-02											
MP/476ES01	Spain	PROSTHETIC VALVES, FRAMES AND LEAFLETS AND METHODS THEREOF	Granted	13824700.2	2013-03-15	2013-12-19														
MP/476ES02	Spain	PROSTHETIC VALVES, FRAMES AND LEAFLETS AND METHODS THEREOF	Granted	17194473.9	2013-03-15	2013-12-19														
MP/476FR01	France	PROSTHETIC VALVES, FRAMES AND LEAFLETS AND METHODS THEREOF	Granted	13824700.2	2013-03-15	2013-12-19														
MP/476FR02	France	PROSTHETIC VALVES, FRAMES AND LEAFLETS AND METHODS THEREOF	Granted	17194473.9	2013-03-15	2013-12-19														
MP/476GB01	United Kingdom	PROSTHETIC VALVES, FRAMES AND LEAFLETS AND METHODS THEREOF	Granted	13824700.2	2013-03-15	2013-12-19														
MP/476GB02	United Kingdom	PROSTHETIC VALVES, FRAMES AND LEAFLETS AND METHODS THEREOF	Granted	17194473.9	2013-03-15	2013-12-19														
MP/476HK01	Hong Kong	PROSTHETIC VALVES, FRAMES AND LEAFLETS AND METHODS THEREOF	Abandoned	16103105.8	2012-12-19	2013-12-19	1215145		2016-08-19		2018-01-18									
MP/476HK02	Hong Kong	PROSTHETIC VALVES, FRAMES AND LEAFLETS AND METHODS THEREOF	Abandoned	16110220.1	2013-12-18	2013-12-19	1250620		2019-01-11											
MP/476IE01	Ireland (Republic of)	LEAFLETS AND METHODS THEREOF	Granted	13824700.2	2013-03-15	2013-12-19														
MP/476IE02	Ireland (Republic of)	PROSTHETIC VALVES, FRAMES AND LEAFLETS AND METHODS THEREOF	Granted	17194473.9	2013-03-15	2013-12-19														
MP/476IT01	Italy	LEAFLETS AND METHODS THEREOF	Granted	13824700.2	2013-03-15	2013-12-19														
MP/476IT02	Italy	PROSTHETIC VALVES, FRAMES AND LEAFLETS AND METHODS THEREOF	Granted	502022000057768	2013-03-15	2013-12-19														
MP/476JP	Japan	PROSTHETIC VALVES, FRAMES AND LEAFLETS AND METHODS THEREOF	Granted	2015-549734	2013-03-15	2013-12-19	2016-501115		2016-01-18		2020-12-14									
MP/476JP02	Japan	PROSTHETIC VALVES, FRAMES AND LEAFLETS AND METHODS THEREOF	Granted	2019-011165	2013-03-15	2013-12-19	2019-103821		2019-06-27		2021-04-12									
MP/476JP03	Japan	PROSTHETIC VALVES, FRAMES AND LEAFLETS AND METHODS THEREOF	Published	2021-065369	2013-03-15	2013-12-19														
MP/476KR	Korea, Republic of (KR)	PROSTHETIC VALVES, FRAMES AND LEAFLETS AND METHODS THEREOF	Abandoned	10_2015-7019556	2013-03-15	2013-12-19														
MP/476NL01	Netherlands	PROSTHETIC VALVES, FRAMES AND LEAFLETS AND METHODS THEREOF	Granted	13824700.2	2013-03-15	2013-12-19														
MP/476US	United States of America	LEAFLETS AND METHODS THEREOF	Granted	141733553	2012-12-19	2013-12-18	20140180400		2014-06-26		2017-08-22									
MP/476US02	United States of America	PROSTHETIC VALVES, FRAMES AND LEAFLETS AND METHODS THEREOF	Granted	15662571	2012-12-19	2017-07-28	US-2018-0125646-A1		2018-05-10		2021-01-05									
MP/476US03	United States of America	PROSTHETIC VALVES, FRAMES AND LEAFLETS AND METHODS THEREOF	Published	171740386	2012-12-19	2017-07-28	2021-0121289		2021-04-29		2021-09-05									
MP/476WO	Patent Cooperation Treaty	PROSTHETIC VALVES, FRAMES AND LEAFLETS AND METHODS THEREOF	Expried	2013075668	2013-03-15	2013-12-19	20147100476		2014-06-26											
P/MP/476US	United States of America	PROSTHETIC VALVES, FRAMES AND LEAFLETS AND METHODS THEREOF	Expried	61/802116		2013-03-15														
MP/477AU	Australia	MULTI-FRAME PROSTHETIC HEART VALVE	Granted	2013363289	2012-12-19	2013-12-13	2013363289		2017-04-27	2013363289	2017-08-10									
MP/477AU02	Australia	MULTI-FRAME PROSTHETIC HEART VALVE	Granted	2017202405	2012-12-19	2015-05-01					2017202405									
MP/477AU03	Australia	MULTI-FRAME PROSTHETIC HEART VALVE	Granted	2019219832	2012-12-19	2019-08-23					2019219832									

**EXHIBIT A -
PATENTS AND PATENT APPLICATIONS**

MP/481DE03	Germany (Federal Republic of)	TRUNCATED LEAFLET FOR HEART VALVES	Granted	18205790.1	2012-12-19	2013-12-16		3479797	2022-03-16
MP/481IEP	European Patent	TRUNCATED LEAFLET FOR HEART VALVES	Granted	13815646.8	2012-12-19	2013-12-16	2934388	2934388	2017-08-30
MP/481EP02	European Patent	TRUNCATED LEAFLET FOR HEART VALVES	Granted	17187595.8	2012-12-19	2013-12-16	3266416	3266416	2018-12-12
MP/481EP03	European Patent	TRUNCATED LEAFLET FOR HEART VALVES	Granted	18205790.1	2012-12-19	2013-12-16	3479797	3479797	2022-03-16
MP/481ES01	Spain	TRUNCATED LEAFLET FOR HEART VALVES	Granted	13815646.8	2012-12-19	2013-12-16	2934388	2934388	2017-08-30
MP/481ES02	Spain	TRUNCATED LEAFLET FOR HEART VALVES	Granted	17187595.8	2012-12-19	2013-12-16	3266416	3266416	2018-12-12
MP/481ES03	Spain	TRUNCATED LEAFLET FOR HEART VALVES	Granted	18205790.1	2012-12-19	2013-12-16	3479797	3479797	2022-03-16
MP/481FR01	France	TRUNCATED LEAFLET FOR HEART VALVES	Granted	13815646.8	2012-12-19	2013-12-16	2934388	2934388	2017-08-30
MP/481FR02	France	TRUNCATED LEAFLET FOR HEART VALVES	Granted	17187595.8	2012-12-19	2013-12-16	3266416	3266416	2018-12-12
MP/481FR03	France	TRUNCATED LEAFLET FOR HEART VALVES	Granted	18205790.1	2012-12-19	2013-12-16	3479797	3479797	2022-03-16
MP/481GB01	United Kingdom	TRUNCATED LEAFLET FOR HEART VALVES	Granted	13815646.8	2012-12-19	2013-12-16	2934388	2934388	2017-08-30
MP/481GB02	United Kingdom	TRUNCATED LEAFLET FOR HEART VALVES	Granted	17187595.8	2012-12-19	2013-12-16	3266416	3266416	2018-12-12
MP/481GB03	United Kingdom	TRUNCATED LEAFLET FOR HEART VALVES	Granted	18205790.1	2012-12-19	2013-12-16	3479797	3479797	2022-03-16
MP/481HK01	Hong Kong	TRUNCATED LEAFLET FOR HEART VALVES	Abandoned	16103178.0	2013-12-16	2013-12-16	1215150	1215150	2018-06-22
MP/481HK02	Hong Kong	TRUNCATED LEAFLET FOR HEART VALVES	Abandoned	18107485.7	2013-03-15	2013-12-16	1248092	1248092	2020-01-03
MP/481HK03	Hong Kong	TRUNCATED LEAFLET FOR HEART VALVES	Abandoned	19130917.8	2013-03-15	2013-12-16			
MP/481IE01	Ireland (Republic of)	TRUNCATED LEAFLET FOR HEART VALVES	Granted	13815646.8	2012-12-19	2013-12-16	2934388	2934388	2017-08-30
MP/481IE02	Ireland (Republic of)	TRUNCATED LEAFLET FOR HEART VALVES	Granted	17187595.8	2012-12-19	2013-12-16	3266416	3266416	2018-12-12
MP/481IE03	Ireland (Republic of)	TRUNCATED LEAFLET FOR HEART VALVES	Granted	18205790.1	2012-12-19	2013-12-16	3479797	3479797	2022-03-16
MP/481IT01	Italy	TRUNCATED LEAFLET FOR HEART VALVES	Granted	13815646.8	2012-12-19	2013-12-16	502017000132623	502017000132623	2017-08-30
MP/481IT02	Italy	TRUNCATED LEAFLET FOR HEART VALVES	Granted	17187595.8	2012-12-19	2013-12-16	3266416	3266416	2018-12-12
MP/481IT03	Italy	TRUNCATED LEAFLET FOR HEART VALVES	Granted	18205790.1	2012-12-19	2013-12-16	502022000039020	502022000039020	2022-03-16
MP/481JP	Japan	TRUNCATED LEAFLET FOR HEART VALVES	Granted	2015-549523	2013-03-15	2013-12-16	2016-501105	2016-01-18	2020-01-07
MP/481JP02	Japan	TRUNCATED LEAFLET FOR HEART VALVES	Granted	2019-230319	2013-03-15	2013-12-16	2020-049275	2020-04-02	2022-04-25
MP/481KR	Korea, Republic of (KR)	TRUNCATED LEAFLET FOR HEART VALVES	Abandoned	10-2015-7019572	2013-03-15	2013-12-16			
MP/481NL01	Netherlands	TRUNCATED LEAFLET FOR HEART VALVES	Granted	13815646.8	2012-12-19	2013-12-16	2934388	2934388	2017-08-30
MP/481NL02	Netherlands	TRUNCATED LEAFLET FOR HEART VALVES	Granted	17187595.8	2012-12-19	2013-12-16	3266416	3266416	2018-12-12
MP/481US	United States of America	TRUNCATED LEAFLET FOR HEART VALVES	Granted	13/843196	2012-12-19	2013-03-15	20140172080	2014-06-19	2015-09-29
MP/481US03	United States of America	TRUNCATED LEAFLET FOR PROSTHETIC HEART VALVES	Granted	14/838334	2013-03-15	2015-08-28	2015-0366663	2015-12-14	2019-11-05
MP/481US04	United States of America	TRUNCATED LEAFLET FOR PROSTHETIC HEART VALVES	Published	16/440340	2015-08-28	2019-06-13	US-2020-0000578-A1	2020-01-02	
MP/481WO	Patent Cooperation Treaty	TRUNCATED LEAFLET FOR HEART VALVES	Expired	2013/075274	2012-12-19	2013-12-16	2014/099722	2014-06-26	

MP/486NL02	Netherlands	IMPROVED PROSTHETIC HEART VALVE WITH LEAFLET SHELVING	Granted	16196687.4	2013-04-24	2013-11-06		3278768	2019-03-13
MP/486US	United States of America	IMPROVED PROSTHETIC HEART VALVE WITH LEAFLET SHELVING	Granted	13669878	2012-12-19	2013-04-24	20140172082	9101469	2015-08-11
MP/486WO	Patent Cooperation Treaty	IMPROVED PROSTHETIC HEART VALVE WITH LEAFLET SHELVING	Expired	2013068780	2013-04-24	2013-11-06	2014099163	2014-06-26	

MP/500AU	Australia	ASYMMETRIC OPENING AND CLOSING PROSTHETIC VALVE LEAFLET	Granted	2014360294	2013-12-06	2014-12-05	2014360294	2017-10-26	2014360294	2018-02-08
MP/500AU02	Australia	ASYMMETRIC OPENING AND CLOSING PROSTHETIC VALVE LEAFLET	Granted	2018200631	2013-12-06	2014-12-05			2018200631	2020-06-11
MP/500AU03	Australia	ASYMMETRIC OPENING AND CLOSING PROSTHETIC VALVE LEAFLET	Abandoned	2020203433	2013-12-06	2014-12-05				
MP/500BR	Brazil	ASYMMETRIC OPENING AND CLOSING PROSTHETIC VALVE LEAFLET	Abandoned	112016012836-2	2013-12-06	2014-12-05	112016012836-2	2017-08-08		
MP/500CA	Canada	ASYMMETRIC OPENING AND CLOSING PROSTHETIC VALVE LEAFLET	Granted	2932760	2013-12-06	2014-12-05			2932760	2020-03-10
MP/500CA02	Canada	ASYMMETRIC OPENING AND CLOSING PROSTHETIC VALVE LEAFLET	Abandoned	3065734	2013-12-06	2014-12-05				
MP/500CN	China	ASYMMETRIC OPENING AND CLOSING PROSTHETIC VALVE LEAFLET	Granted	201480074823.7	2013-12-06	2014-12-05	105960220	2016-09-21	201480074823.7	2019-10-01
MP/500CN02	China	ASYMMETRIC OPENING AND CLOSING PROSTHETIC VALVE LEAFLET	Published	201910841260.4	2013-12-06	2014-12-05	110478094	2019-11-22		
MP/500DE01	Germany (Federal Republic of)	ASYMMETRIC OPENING AND CLOSING PROSTHETIC VALVE LEAFLET	Granted	14821950.4	2013-12-06	2014-12-05			3076900	2019-11-06
MP/500EP	European Patent	ASYMMETRIC OPENING AND CLOSING PROSTHETIC VALVE LEAFLET	Granted	14821950.4	2013-12-06	2014-12-05	3076900	2016-10-12	3076900	2019-11-06
MP/500EP02	European Patent	ASYMMETRIC OPENING AND CLOSING PROSTHETIC VALVE LEAFLET	Published	19202204.4	2013-12-06	2014-12-05	3613384	2020-02-26		
MP/500ES01	Spain	ASYMMETRIC OPENING AND CLOSING PROSTHETIC VALVE LEAFLET	Granted	14821950.4	2013-12-06	2014-12-05			3076900	2019-11-06
MP/500FR01	France	ASYMMETRIC OPENING AND CLOSING PROSTHETIC VALVE LEAFLET	Granted	14821950.4	2013-12-06	2014-12-05			3076900	2019-11-06
MP/500GB01	United Kingdom	ASYMMETRIC OPENING AND CLOSING PROSTHETIC VALVE LEAFLET	Granted	14821950.4	2013-12-06	2014-12-05			3076900	2019-11-06
MP/500HK	Hong Kong	ASYMMETRIC OPENING AND CLOSING PROSTHETIC VALVE LEAFLET	Abandoned	17102437.8	2013-12-06	2014-12-05	1228722	2017-11-10		
MP/500HK01	Hong Kong	ASYMMETRIC OPENING AND CLOSING PROSTHETIC VALVE LEAFLET	Abandoned	42020009180.9	2013-12-06	2014-12-05				
MP/500IE01	Ireland (Republic of)	ASYMMETRIC OPENING AND CLOSING PROSTHETIC VALVE LEAFLET	Granted	14821950.4	2013-12-06	2014-12-05			3076900	2019-11-06
MP/500IT01	Italy	ASYMMETRIC OPENING AND CLOSING PROSTHETIC VALVE LEAFLET	Granted	14821950.4	2013-12-06	2014-12-05			3076900	2019-11-06
MP/500JP	Japan	ASYMMETRIC OPENING AND CLOSING PROSTHETIC VALVE LEAFLET	Granted	2016-536897	2013-12-06	2014-12-05	2016-538965	2016-12-15	6599330	2019-10-11
MP/500JP02	Japan	ASYMMETRIC OPENING AND CLOSING PROSTHETIC VALVE LEAFLET	Granted	2019-178911	2013-12-06	2014-12-05	2020-014884	2020-01-30	6923613	2021-08-02
MP/500US	United States of America	ASYMMETRIC OPENING AND CLOSING PROSTHETIC VALVE LEAFLET	Granted	14561148	2013-12-06	2014-12-04	2015-0157456	2015-06-11	9504565	2016-11-29
MP/500US02	United States of America	ASYMMETRIC OPENING AND CLOSING PROSTHETIC VALVE LEAFLET	Granted	15333749	2013-12-06	2016-10-25	2017-0042674	2017-02-16	10368984	2019-08-06
MP/500US03	United States of America	ASYMMETRIC OPENING AND CLOSING PROSTHETIC VALVE LEAFLET	Published	16454928	2013-12-06	2019-06-27	20190314154	2019-10-17		
MP/500WO	Patent Cooperation Treaty	ASYMMETRIC OPENING AND CLOSING PROSTHETIC VALVE LEAFLET	Expired	US2014/058727	2013-12-06	2014-12-05	2015-085138	2015-06-11		
PMP/500S1US	United States of America	ASYMMETRIC OPENING AND CLOSING PROSTHETIC VALVE LEAFLET	Expired	61/974653	2014-04-03					
PMP/500US	United States of America	ASYMMETRIC OPENING AND CLOSING PROSTHETIC VALVE LEAFLET	Expired	61/913235	2013-12-06					

PMP/619AU01	Australia	FRAME WITH INTEGRAL SEWING CUFF FOR PROSTHETIC VALVES	Granted	2015305868	2014-06-18	2015-06-13	2015305868	2018-09-20	2015305868	2019-01-03
-------------	-----------	---	---------	------------	------------	------------	------------	------------	------------	------------