

PATENT ASSIGNMENT COVER SHEET

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EPAS ID: PAT3803954

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
JVT RESEARCH & DEVELOPMENT CORPORATION	03/10/2016

RECEIVING PARTY DATA

Name:	JENAVALVE TECHNOLOGY, INC.
Street Address:	7545 IRVINE CENTER DRIVE
Internal Address:	SUITE 100
City:	IRVINE
State/Country:	CALIFORNIA
Postal Code:	92618

PROPERTY NUMBERS Total: 68

Property Type	Number
Patent Number:	7896913
Patent Number:	7198646
Patent Number:	RE45130
Patent Number:	8679174
Patent Number:	6254564
Patent Number:	6881199
Patent Number:	7704222
Patent Number:	7736327
Patent Number:	8216174
Patent Number:	8597226
Patent Number:	8216301
Patent Number:	8303653
Patent Number:	8206437
Patent Number:	8585756
Patent Number:	8579965
Patent Number:	8092521
Patent Number:	8551160
Patent Number:	9044320
Patent Number:	8834561

PATENT

Property Type	Number
Patent Number:	RE45790
Patent Number:	8062355
Patent Number:	7896915
Patent Number:	7914575
Patent Number:	8685085
Patent Number:	9138315
Patent Number:	8758430
Patent Number:	9044318
Patent Number:	9168130
Patent Number:	8317858
Patent Number:	9265631
Patent Number:	8468667
Patent Number:	8398704
Patent Number:	8465540
Patent Number:	8790395
Application Number:	10204918
Application Number:	14168976
Application Number:	60099719
Application Number:	14068980
Application Number:	10210085
Application Number:	12209395
Application Number:	14019071
Application Number:	14563473
Application Number:	14576344
Application Number:	14454334
Application Number:	14708892
Application Number:	12084421
Application Number:	14174441
Application Number:	12599934
Application Number:	12496989
Application Number:	14212364
Application Number:	14709909
Application Number:	14995484
Application Number:	61178701
Application Number:	12778585
Application Number:	12401276
Application Number:	14312180
Application Number:	12801090

Property Type	Number
Application Number:	13698910
Application Number:	61348036
Application Number:	13114582
Application Number:	14346143
Application Number:	14352117
Application Number:	61661385
Application Number:	61647741
Application Number:	14400893
Application Number:	62155849
Application Number:	62136092
Application Number:	62159430

CORRESPONDENCE DATA

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ATTORNEY DOCKET NUMBER: 10423-0999-00000

NAME OF SUBMITTER: KIRSTEN JOHNSON

SIGNATURE: /Kirsten Johnson/

DATE SIGNED: 03/29/2016

Total Attachments: 13

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CONFIRMATION OF PATENT ASSIGNMENT

WHEREAS, **JVT Research & Development Corporation**, a corporation of Delaware and having a principal place of business of 7545 Irvine Center Drive, Suite 100, Irvine, CA 92618, USA ("**Assignor**"), owned right, title, and interest in and to the patents and patent applications listed in Schedule A, including foreign counterparts, patents and patent applications claiming priority to those listed in Schedule A, patents and patent applications from which those listed in Schedule A claim priority to, as well as continuations, continuations-in-part, divisions, renewals, reissues, reexaminations, and extensions related to those listed in Schedule A ("**Assigned Patents**");

WHEREAS, **JenaValve Technology, Inc.**, a corporation of Delaware and having a principal place of business of 7545 Irvine Center Drive, Suite 100, Irvine, CA 92618, USA ("**Assignee**"), has acquired Assignor's entire right, title, and interest in the Assigned Patents as described in the **INTELLECTUAL PROPERTY ASSIGNMENT AGREEMENT** having an effective date of January 1, 2016;

NOW, THEREFORE, BE IT KNOWN, Assignor, for good and valuable consideration, receipt of which is hereby acknowledged, has sold, assigned, and transferred, unto said Assignee its entire right, title, and interest in and to all said Assigned Patents and any and all inventions and discoveries disclosed in said Assigned Patents;

AND, Assignor has granted to Assignee the full right to sue and recover all profits and damages recoverable for past, present, and future infringement of the Assigned Patents, including the right to sue for injunctive relief;

AND, Assignor further covenants that Assignor owned the full right to convey the interest assigned, Assignor will take all action and execute all documents necessary to perfect the interest assigned, and Assignor has not executed and will not execute any agreement in conflict with this Assignment;

AND, Assignor further covenants and agrees that Assignor will, without further consideration, communicate with Assignee, its successors and assigns, any facts known to Assignor and its officers and employees respecting the Assigned Patents and the inventions and discoveries disclosed in said Assigned Patents, and testify in any legal proceeding, sign all lawful papers when called upon to do so, execute and deliver all papers that may be necessary or desirable to perfect the title to the Assigned Patents in Assignee, its successors and assigns, execute all divisional, continuation, and reissue applications, make all rightful oaths, and generally do everything possible to aid Assignee, its successors and assigns, to obtain and enforce proper patent protection for the inventions in the United States and any foreign country, it being understood that any expense incident to the execution of such papers shall be borne by Assignee, its successors and assigns;

AND Assignor hereby authorizes and requests all government patent offices, including the United States Patent & Trademark Office, to issue the Assigned Patents in accordance with this Assignment.

IN TESTIMONY WHEREOF, Assignor and Assignee have hereunto set hand and seal as of the date(s) below.

JVT Research & Development Corporation

By:  Date: March 10 2016
Name: Peter C. Wulff
Title: Chief Financial Officer

JenaValve Technology, Inc.

By:  Date: 10 Mar 2016
Name: Victoria E. Carr-Brendel
Title: Chief Executive Officer

**SCHEDULE A
TO CONFIRMATION OF PATENT ASSIGNMENT**

Patent Family	Attorney Docket No.	Title	Application No.	Patent No.	Jurisdiction	Status
P003	---	Anchoring System for Implantable Heart Valve Prosthesis	PCT/DE2001/00836	---	Patent Cooperation Treaty	Expired
	127-71313	Anchoring System for Implantable Heart Valve Prosthesis	10/204,918	---	United States	Abandoned
	10423-0010-00000	Anchoring System for Implantable Heart Valve Prosthesis	11/515,589	7,896,913	United States	Patented
P004	---	Device for Fastening and Anchoring Cardiac Valve Prosthesis	PCT/DE2001/000837	---	Patent Cooperation Treaty	Expired
	127-71301	Device for Fastening and Anchoring Cardiac Valve Prosthesis	10/204,990	7,198,646	United States	Patented
	10423-0016-00000	Device for Fastening and Anchoring Cardiac Valve Prosthesis	12/213,991	RE45,130 (reissue of 7,198,646)	United States	Patented
P006	---	Catheter for the Transvascular Implantation of Prosthetic Heart Valves	PCT/DE2006/000056	---	Patent Cooperation Treaty	Expired
	10423-0008-00000	Catheter for the Transvascular Implantation of Prosthetic Heart Valves	11/795,590	8,679,174	United States	Patented

Patent Family	Attorney Docket No.	Title	Application No.	Patent No.	Jurisdiction	Status
	10423-0008-01000	Catheter for the Transvascular Implantation of Prosthetic Heart Valves	14/168,976	---	United States	Pending
	PERCAR.005PR	Stent with Blood Vessel Graft	60/099,719	---	United States	Expired
	---	Transmyocardial Shunt	PCT/US99/20736	---	Patent Cooperation Treaty	Expired
	07883.0011	Left Ventricular Conduit with Blood Vessel Graft	09/569,061	6,254,564	United States	Patented
	7883.011-01	Left Ventricular Conduit with Blood Vessel Graft	09/828,794	6,881,199	United States	Patented
	10423-0001-02000	Methods and Conduits for Flowing Blood from a Heart Chamber to a Blood Vessel	10/928,190	7,704,222	United States	Patented
P007	10423-0001-03000	Methods and Conduits for Flowing Blood from a Heart Chamber to a Blood Vessel	12/149,901	7,736,327	United States	Patented
	10423-0001-04000	Methods and Conduits for Flowing Blood from a Heart Chamber to a Blood Vessel	12/771,546	8,216,174	United States	Patented
	10423-0001-05000	Methods and Conduits for Flowing Blood from a Heart Chamber to a Blood Vessel	13/494,589	8,597,226	United States	Patented
	10423-0001-06000	Methods and Conduits for Flowing Blood from a Heart Chamber to a Blood Vessel	14/068,980	---	United States	Abandoned

Patent Family	Attorney Docket No.	Title	Application No.	Patent No.	Jurisdiction	Status
P008	318042US	Implant Implantation Unit and Procedure for Implanting the Unit	10/210,085	---	United States	Abandoned
	1017.0001-01	Implant Implantation Unit	12/138,983	8,216,301	United States	Patented
	078-001	Implant Implantation Unit and Procedure for Implanting the Unit	12/139,074	8,303,653	United States	Patented
			12/209,395	---	United States	Abandoned
	1017.0001-04	Implant Implantation Unit and Procedure for Implanting the Unit	12/407,342	8,206,437	United States	Patented
	1017.0001-05	Methods of Treating Valves	13/279,800	8,585,756	United States	Patented
	1017.0001-06	Methods of Implanting an Implantation Device	13/286,459	8,579,965	United States	Patented
	1017.0001-07	Methods of Implanting a Unit in a Tubular Element with a Wall	14/019,071	---	United States	Abandoned
	1017.0001-08	Devices Useful for Implantation at a Heart Valve	14/563,473	---	United States	Pending
	1017.0001-09	Devices Useful for Implantation at a Heart Valve	14/576,344	---	United States	Pending
P009	---	Device for Implanting and Fastening Heart Valve Prostheses	PCT/EP2006/010023	---	Patent Cooperation Treaty	Expired
	10423-0004-00000	Device for the Implantation and Fixation of Prosthetic Valves	11/589,570	8,092,521	United States	Patented
	10423-0004-01000	Device for the Implantation and Fixation of Prosthetic Valves	13/515,913	8,551,160	United States	Patented

Patent Family	Attorney Docket No.	Title	Application No.	Patent No.	Jurisdiction	Status
	10423-0004-02000	Device for the Implantation and Fixation of Prosthetic Valves	14/020,497	9,044,320	United States	Patented
	10423-0004-03000	Device for the Implantation and Fixation of Prosthetic Valves	14/087,316	8,834,561	United States	Patented
	10423-0004-04000	Device for the Implantation and Fixation of Prosthetic Valves	14/454,285	RE45,790 (reissue of 8,092,521)	United States	Patented
	10423-0004-05000	Device for the Implantation and Fixation of Prosthetic Valves	14/454,334	---	United States	Pending
	10423-0004-06000	Device for the Implantation and Fixation of Prosthetic Valves	14/708,892	---	United States	Pending
		---	Self-Expandable Medical Instrument for Treatment of Defects on a Patient's Heart	PCT/EP2006/010519	---	Patent Cooperation Treaty
P010	10423-0005-00000	Self-Expandable Medical Instrument for Treatment of Defects on a Patient's Heart	11/592,369	8,062,355	United States	Patented
	10423-0011	Self-Expandable Medical Instrument for Treatment of Defects on a Patient's Heart	12/084,421	---	United States	Abandoned
	10423-0006-00000	Medical Device for Treating a Heart Valve Insufficiency	11/785,072	7,896,915	United States	Patented
P011	10423-0006-01000	Medical Device for Treating a Heart Valve Insufficiency	12/572,340	7,914,575	United States	Patented
	10423-0006-02000	Medical Device for Treating a Heart Valve Insufficiency	13/030,708	8,685,085	United States	Patented

Patent Family	Attorney Docket No.	Title	Application No.	Patent No.	Jurisdiction	Status
	10423-0006-03000	Medical Device for Treating a Heart Valve Insufficiency	14/174,441	---	United States	Pending
P012	---	Handle for Manipulating a Catheter Tip, Catheter System and Medical Insertion System for Inserting a Self-Expandable Heart Valve Stent	PCT/EP2008/003803	---	Patent Cooperation Treaty	Expired
	10423-0021-00000	Methods of Implanting an Endoprosthesis	12/599,934	---	United States	Pending
	---	Medical Device for Treating a Heart Valve Insufficiency or Stenosis	PCT/EP2007/061117	---	Patent Cooperation Treaty	Expired
P013	10423-0007-00000	Medical Device for Treating a Heart Valve Insufficiency or Stenosis	11/812,095	9,138,315	United States	Patented
	10423-0007-01000	Medical Device for Treating a Heart Valve Insufficiency or Stenosis	12/496,989	---	United States	Pending
	---	Medical Apparatus for the Therapeutic Treatment of an Insufficient Cardiac Valve	PCT/EP2009/050762	---	Patent Cooperation Treaty	Expired
P014	10423-0037-00000	Medical Apparatus for the Therapeutic Treatment of an Insufficient Cardiac Valve	12/863,935	8,758,430	United States	Patented
	10423-0037-01000	Medical Apparatus for the Therapeutic Treatment of an Insufficient Cardiac Valve	14/212,364	---	United States	Abandoned

Patent Family	Attorney Docket No.	Title	Application No.	Patent No.	Jurisdiction	Status
P015	---	Stent for the Positioning and Anchoring of a Valvular Prosthesis in an Implantation Site in the Heart of a Patient	PCT/EP2009/052230	---	Patent Cooperation Treaty	Expired
	10423-0009-00000	Stent for the Positioning and Anchoring of a Valvular Prosthesis	12/071,814	9,044,318	United States	Patented
	10423-0009-01000	Stent for the Positioning and Anchoring of a Valvular Prosthesis in an Implantation Site in the Heart of a Patient	14/709,909	---	United States	Pending
	10423-0023-00000	Stent for the Positioning and Anchoring of a Valvular Prosthesis in an Implantation Site in the Heart of a Patient	12/285,544	9,168,130	United States	Patented
	10423-0025-00000	Stent for the Positioning and Anchoring of a Valvular Prosthesis in an Implantation Site in the Heart of a Patient	12/392,467	8,317,858	United States	Patented
	10423-0025-01000	Stent for the Positioning and Anchoring of a Valvular Prosthesis in an Implantation Site in the Heart of a Patient	13/624,148	9,265,631	United States	Patented
	10423-0025-02000	Stent for the Positioning and Anchoring of a Valvular Prosthesis in an Implantation Site in the Heart of a Patient	14,995,484	---	United States	Pending

Patent Family	Attorney Docket No.	Title	Application No.	Patent No.	Jurisdiction	Status
P016	---	Device for Compressing a Stent and a System as Well as a Method for Loading a Stent into a Medical Delivery System	PCT/EP2009/055958	---	Patent Cooperation Treaty	Expired
	---	Device for Compressing a Stent as Well as System and Method for Loading a Stent into a Medical Delivery System	PCT/EP2010/056558	---	Patent Cooperation Treaty	Expired
	10423-6001-00000	Device for Compressing a Stent and a System as Well as a Method for Loading a Stent into a Medical Delivery System	61/178,701	---	United States	Expired
P017	10423-0031-01000	Device for Compressing a Stent and a System as Well as a Method for Loading a Stent into a Medical Delivery System	12/778,585	---	United States	Abandoned
	10423-0031-00000	Device for Compressing a Stent	12/778,625	8,468,667	United States	Patented
	---	Stent-Valves for Valve Replacement and Associated Methods and Systems for Surgery	PCT/EP2007/007413	---	Patent Cooperation Treaty	Expired
P019	10423-0027-00000	Stent-Valves for Valve Replacement and Associated Methods and Systems for Surgery	12/401,276	---	United States	Pending
	---	Stent for the Positioning and Anchoring of a Valvular Prosthesis in an Implantation Site in the Heart of a Patient	PCT/EP2010/052429	---	Patent Cooperation Treaty	Expired

Patent Family	Attorney Docket No.	Title	Application No.	Patent No.	Jurisdiction	Status
	10423-0029-00000	Stent for the Positioning and Anchoring of a Valvular Prosthesis in an Implantation Site in the Heart of a Patient	12/713,058	8,398,704	United States	Patented
	10423-0038-00000	Stent for the Positioning and Anchoring of a Valvular Prosthesis	13/033,023	8,465,540	United States	Patented
	10423-0038-01000	Stent for the Positioning and Anchoring of a Valvular Prosthesis in an Implantation Site in the Heart of a Patient	13/896,905	8,790,395	United States	Patented
	10423-0038-02000	Endoprosthesis for Implantation in the Heart of a Patient	14/312,180	-----	United States	Pending
	-----	Catheter System for Introducing an Expandable Heart Valve Stent into the Body of a Patient, Insertion System with a Catheter System and Medical Device for Treatment of a Heart Valve Defect	PCT/EP2011/002524	-----	Patent Cooperation Treaty	Expired
P020	10423-0033-00000	Catheter System for Introducing an Expandable Heart Valve Stent into the Body of a Patient, Insertion System with a Catheter System and Medical Device for Treatment of a Heart Valve Defect	12/801,090	-----	United States	Pending

Patent Family	Attorney Docket No.	Title	Application No.	Patent No.	Jurisdiction	Status
	10423-0033-01000	Catheter System for Introducing an Expandable Heart Valve Stent into the Body of a Patient, Insertion System with a Catheter System and Medical Device for Treatment of a Heart Valve Defect	13/698,910	---	United States	Pending
	---	Prosthetic Heart Valve and Transcatheter Delivered Endoprosthesis Comprising a Prosthetic Heart Valve and a Stent	PCT/EP2011/058506	---	Patent Cooperation Treaty	Expired
P021	10423-6002-00000	Prosthetic Heart Valve, Method for Manufacturing of a Prosthetic Heart Valve, and Transcatheter Delivered Endoprosthesis Comprising a Prosthetic Heart Valve and a Stent	61/348,036	---	United States	Expired
	10423-0034-00000	Prosthetic Heart Valve and Endoprosthesis Comprising a Prosthetic Heart Valve and a Stent	13/114,582	---	United States	Pending
	---	System and Method for Loading a Stent into a Medical Delivery System	PCT/EP2012/067617	---	Patent Cooperation Treaty	Expired
P022	10423-0040-00000	System and Method for Loading a Stent into a Medical Delivery System	14/346,143	---	United States	Pending

Patent Family	Attorney Docket No.	Title	Application No.	Patent No.	Jurisdiction	Status
P024	---	Catheter System for Introducing an Expandable Heart Valve Stent into the Body of a Patient. Insertion System with a Catheter System and Medical Device for Treatment of a Heart Valve Defect	PCT/EP2012/067714	---	Patent Cooperation Treaty	Expired
	10423-0041-00000	Catheter System for Introducing an Expandable Heart Valve Stent into the Body of a Patient	14/352,117	---	United States	Pending
P026	---	Apparatus for Providing Access to a Viscus, System for Performing Direct Cardiac Catheterization and Method for Minimally-Invasive Surgery	PCT/EP2013/057427	---	Patent Cooperation Treaty	Expired
	10423-6004-00000	Apparatus for Providing Access to a Viscus, System for Performing Direct Cardiac Catheterization and Method for Minimally-Invasive Surgery	61/661,385	---	United States	Expired
P027	---	Catheter Delivery System for Introducing an Expandable Heart Valve Prosthesis and Medical Device for the Treatment of a Heart Valve Defect	PCT/EP2013/057431	---	Patent Cooperation Treaty	Expired
	10423-6003-00000	Catheter Delivery System for Introducing an Expandable Heart Valve Prosthesis and Medical Device for the Treatment of a Heart Valve Defect	61/647,741	---	United States	Expired

Patent Family	Attorney Docket No.	Title	Application No.	Patent No.	Jurisdiction	Status
	10423-0043-00000	Catheter Delivery System for Introducing an Expandable Heart Valve Prosthesis and Medical Device for the Treatment of a Heart Valve Defect	14/400,893	---	United States	Pending
P029	---	Radially Collapsible Frame for a Prosthetic Valve and Method for Manufacturing Such a Frame	PCT/EP2014/065817	---	Patent Cooperation Treaty	Pending
P035	10423-0045-00600	Device and Method with Reduced Pacemaker Rate in Heart Valve Replacement	62/155,849	---	United States	Pending
P036	10423-0044-00600	Heart Valve Prosthesis Delivery System and Method for Delivery of Heart Valve Prosthesis With Introducer Sheath	62/136,092	---	United States	Pending
P037	10423-0046-00600	Device, System, and Method for Treatment of a Mitral and/or Tricuspid Heart Valve Insufficiency	62/159,430	---	United States	Pending