

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

Assignment ID: PATI614505

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	SECURITY INTEREST
CONVEYING PARTY DATA	
Name	Execution Date
ORCHESTRA BIOMED HOLDINGS, INC.	11/06/2024
ORCHESTRA BIOMED, INC.	11/06/2024
CALIBER THERAPEUTICS, LLC	11/06/2024
BACKBEAT MEDICAL, LLC	11/06/2024
FREEHOLD SURGICAL, LLC	11/06/2024
RECEIVING PARTY DATA	
Company Name:	HERCULES CAPITAL, INC.
Street Address:	1 North B Street, Suite 2000
City:	San Mateo
State/Country:	CALIFORNIA
Postal Code:	20036
PROPERTY NUMBERS Total: 76	
Property Type	Number
Patent Number:	8251889
Patent Number:	8888679
Patent Number:	9549727
Patent Number:	9451941
Patent Number:	9615952
Patent Number:	9687218
Patent Number:	9782160
Patent Number:	9855044
Patent Number:	10398581
Patent Number:	10524773
Patent Number:	10743878
Patent Number:	10835219
Patent Number:	11224416
Patent Number:	11737901
Patent Number:	11786249
Patent Number:	11832803

PATENT

Property Type	Number
Patent Number:	11918199
Patent Number:	9008769
Patent Number:	9333352
Patent Number:	9370662
Patent Number:	9526900
Patent Number:	9656086
Patent Number:	9878162
Patent Number:	9937351
Patent Number:	10071250
Patent Number:	10252061
Patent Number:	10441794
Patent Number:	10485658
Patent Number:	10610689
Patent Number:	10967188
Patent Number:	11097108
Patent Number:	11426589
Patent Number:	11452875
Patent Number:	11712567
Patent Number:	11969598
Patent Number:	11986661
Patent Number:	7869874
Patent Number:	8515536
Patent Number:	8340763
Patent Number:	8165674
Patent Number:	8521280
Patent Number:	9370661
Patent Number:	9427586
Patent Number:	9687636
Patent Number:	9731136
Patent Number:	10252060
Patent Number:	10369333
Patent Number:	11083894
Patent Number:	11577059
Patent Number:	11759639
Patent Number:	8086315
Patent Number:	8428729
Patent Number:	9320903
Patent Number:	10232183

Property Type	Number
Patent Number:	11406829
Patent Number:	12029909
Patent Number:	10342982
Patent Number:	10596380
Patent Number:	11529520
Patent Number:	11389658
Patent Number:	8696644
Patent Number:	8715230
Patent Number:	9649478
Patent Number:	9649479
Patent Number:	10207084
Patent Number:	10806909
PCT Number:	US1025425
PCT Number:	US1347862
PCT Number:	US1232138
PCT Number:	US1728375
PCT Number:	US1376600
PCT Number:	US1442777
PCT Number:	US1728715
PCT Number:	US1651023
PCT Number:	US1062606
PCT Number:	US1953267

CORRESPONDENCE DATA

Fax Number:

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.

Phone: 2023704750

Email: ipteam@cogencyglobal.com

Correspondent Name: Joanna McCall

Address Line 1: 1025 Connecticut Ave NW, Suite 712

Address Line 2: Cogency Global Inc.

Address Line 4: Washington, DISTRICT OF COLUMBIA 20036

ATTORNEY DOCKET NUMBER:	2553372 JM
NAME OF SUBMITTER:	Andrew Hackett
SIGNATURE:	Andrew Hackett
DATE SIGNED:	11/06/2024

Total Attachments: 31

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INTELLECTUAL PROPERTY SECURITY AGREEMENT

THIS INTELLECTUAL PROPERTY SECURITY AGREEMENT (this “Agreement”), dated as of November 6, 2024, is made by (a) ORCHESTRA BIOMED HOLDINGS, INC., a Delaware corporation (“Holdings”), ORCHESTRA BIOMED, INC., a Delaware corporation (“BioMed”), CALIBER THERAPEUTICS, LLC, a Delaware limited liability company (“Caliber”), BACKBEAT MEDICAL, LLC, a Delaware limited liability company (“BackBeat”), FREEHOLD SURGICAL, LLC, a Delaware limited liability company (“Freehold”), and together with Holdings, BioMed, Caliber, BackBeat and Freehold, individually or collectively, as the context may require, “Grantor”), in favor of (b) HERCULES CAPITAL, INC., a Maryland corporation, in its capacity as administrative agent and collateral agent (in such capacities, together with its successors and assigns in such capacities, the “Administrative Agent”) for the ratable benefit of the Lenders party from time to time to the Loan Agreement (as defined below).

WHEREAS, the Grantor, the lenders from time to time party thereto, as lenders, and the Administrative Agent are parties to that Loan and Security Agreement, dated as of November 6, 2024 (as amended, restated, amended and restated, modified, renewed, extended, or replaced from time to time, the “Loan Agreement”).

WHEREAS, under the terms of the Loan Agreement, the Grantor has granted to the Administrative Agent a security interest in, among other property, certain intellectual property of the Grantor, and has agreed to execute and deliver this Agreement for recording with the United States Copyright Office (“USCO”) and the United States Patent and Trademark Office (“USPTO”).

Accordingly, the parties hereto agree as follows:

SECTION 1 Definitions; Interpretation.

(a) Terms Defined in the Loan Agreement. All capitalized terms used in this Agreement (including in the recitals hereof) and not otherwise defined herein shall have the respective meanings assigned to such terms in the Loan Agreement.

(b) Certain Defined Terms. As used in this Agreement, the following terms shall have the following meanings:

“Intellectual Property Collateral” has the meaning set forth in Section 2.

(a) Terms Defined in UCC. Where applicable and except as otherwise defined herein, terms used in this Agreement shall have the respective meanings assigned to such terms in the UCC; provided, however, that to the extent that the UCC is used to define any term herein and such term is defined differently in different Articles of the UCC, the definition of such term contained in Article 9 shall govern.

(b) Interpretation. The rules of interpretation set forth in the Loan Agreement shall be applicable to this Agreement and are incorporated herein by this reference.

SECTION 2 Security Interest.

(a) Grant of Security Interest. As security for the prompt and complete payment when due (whether on the payment dates or otherwise) of all the Secured Obligations, the Grantor hereby grants to the Administrative Agent a security interest in all of the Grantor’s right, title and interest in, to and under the following property, in each case whether now or hereafter existing or arising or in which the Grantor now has or hereafter owns, acquires or develops an interest and wherever located (collectively, the

“Intellectual Property Collateral”):

(i) all copyright rights, copyright applications, copyright registrations and like protections in each work of authorship and derivative work thereof, whether published or unpublished and whether or not the same also constitutes a trade secret in each case that are set forth in Schedule A hereto;

(ii) (A) all registered and applied-for trademarks, trade names, corporate names, company names, business names, fictitious business names, trade styles, service marks, logos, Internet domain names and other source or business identifiers (including such federal United States registered and applied-for trademarks, trade names, corporate names, company names, business names, fictitious business names, trade styles, service marks, logos, Internet domain names and other source or business identifiers) in each case that are set forth in Schedule B hereto; (B) all renewals and extensions thereof; and (C) the goodwill of the Grantor’s business symbolized by the foregoing or connected therewith; and

(iii) (A) all patent applications or issued patents in each case that are set forth in Schedule C hereto; and (B) all divisionals, continuations, continuations-in-part, reissues, reexaminations, or extensions of the foregoing;

provided that notwithstanding anything to the contrary contained in the foregoing clauses (i) and (ii), the security interest created hereby shall not extend to, and the term “Intellectual Property Collateral” shall not include, any “intent to use” trademarks at all times prior to the first use thereof, whether by the actual use thereof in commerce, the recording of a statement of use with the United States Patent and Trademark Office or otherwise, provided, that upon submission and acceptance by the United States Patent and Trademark Office of an amendment to allege use of an intent to use trademark application pursuant to 15. U.S.C. Section 1060(a) (or any successor provision) such intent to use application shall constitute Intellectual Property Collateral.

SECTION 3 Supplement to Loan Documents. The terms and provisions of this Agreement are intended as a supplement to the terms and provisions of the Loan Documents and in the event of any inconsistency between the terms and provisions of this Agreement and the Loan Documents, the terms and provisions of the Loan Documents shall control. The Grantor acknowledges that the rights and remedies of the Administrative Agent with respect to the security interest in the Intellectual Property Collateral granted hereby are more fully set forth in the Loan Documents (other than this Agreement) and all such rights and remedies are cumulative.

SECTION 4 Further Assurances. To the extent required under the Loan Documents, upon the request of the Administrative Agent, the Grantor shall promptly take such further action (other than making filings with the USCO or the USPTO, which are addressed in the second sentence of this Section 4) and execute all such additional documents and instruments in connection with this Agreement as the Administrative Agent in its reasonable discretion may deem necessary or advisable to enable the Administrative Agent to exercise and enforce its rights and remedies hereunder with respect to the Intellectual Property Collateral, including any documents for filing with the USCO and the USPTO. The Grantor shall, at its own expense, file and record in the proper filing and recording places this Agreement with the USCO and the USPTO.

SECTION 5 Administrative Agent’s Duties. Notwithstanding any provision contained in this Agreement, the Administrative Agent shall have no duty to exercise any of the rights, privileges or powers afforded to it and shall not be responsible to the Grantor or any other Person for any failure to do so or delay in doing so except as expressly set forth in the Loan Documents. Except for and the accounting for moneys actually received by the Administrative Agent hereunder (and except as expressly set forth in the

Loan Documents), the Administrative Agent shall have no duty or liability to exercise or preserve any rights, privileges or powers pertaining to the Intellectual Property Collateral.

SECTION 6 Termination. This Agreement and the security interest granted herein shall terminate in accordance with the terms of the Loan Agreement.

SECTION 7 No Waiver. Any forbearance or failure or delay by the Administrative Agent in exercising any right, power or remedy hereunder shall not be deemed a waiver thereof and any single or partial exercise of any right, power or remedy shall not preclude the further exercise thereof. No waiver shall be effective unless it is in writing and signed by an officer of the Administrative Agent.

SECTION 8 Recordation. The Grantor hereby authorizes and requests that the Register of Copyrights record this Agreement with the USCO and the Commissioner for Trademarks or the Commissioner for Patents, as applicable, record this Agreement with the USPTO.

SECTION 9 Binding Effect. The provisions of this Agreement shall be binding upon and inure to the benefit of the parties hereto and their respective successors and assigns except that the Grantor may not assign or otherwise transfer any of its rights or obligations hereunder without the prior written consent of the Administrative Agent.

SECTION 10 Governing Law. This Agreement shall be governed by, and construed and enforced in accordance with, the laws of the State of California, excluding conflict of laws principles that would cause the application of laws of any other jurisdiction.

SECTION 11 Severability. Whenever possible, each provision of this Agreement shall be interpreted in such manner as to be effective and valid under applicable law, but if any provision of this Agreement shall be prohibited by or invalid under such law, such provision shall be ineffective only to the extent and duration of such prohibition or invalidity, without invalidating the remainder of such provision or the remaining provisions of this Agreement.

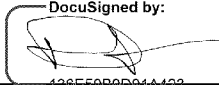
SECTION 12 Counterparts. This Agreement may be executed by one or more of the parties to this Agreement on any number of separate counterparts, and all of said counterparts taken together shall be deemed to constitute one and the same instrument. Delivery of an executed signature page of this Agreement by facsimile or other electronic mail transmission shall be effective as delivery of a manually executed counterpart hereof.

[Remainder of page intentionally left blank]


IN WITNESS WHEREOF, the parties hereto have duly executed this Agreement, as of the date first above written.

GRANTOR:


ORCHESTRA BIOMED HOLDINGS, INC.

DocuSigned by:

By: _____
Name: David Hochman
Title: CEO


ORCHESTRA BIOMED, INC.

DocuSigned by:

By: _____
Name: David Hochman
Title: CEO


CALIBER THERAPEUTICS, LLC

DocuSigned by:

By: _____
Name: David Hochman
Title: CEO

BACKBEAT MEDICAL, LLC


DocuSigned by:

By: _____
Name: David Hochman
Title: CEO

FREEHOLD SURGICAL, LLC

DocuSigned by:

By: _____
Name: David Hochman
Title: CEO

ADMINISTRATIVE AGENT:

HERCULES CAPITAL, INC.

By:  _____

Name: Jennifer Choe

Title: Deputy General Counsel,
Portfolio Transactions

SCHEDULE A

Registered U.S. Copyrights of the Grantor

N/A

Pending U.S. Copyright Applications of the Grantor

N/A

SCHEDULE B

Registered Trademarks

Owner	Registration No.	Registration Date	Jurisdiction	Trademark Name
Freehold Surgical, LLC	4689064	2/17/2015	USA	Freehold Surgical
Freehold Surgical, LLC	1278433	6/16/2016	Australia	Freehold Surgical
Freehold Surgical, LLC	1278433	10/19/2016	Germany	Freehold Surgical
Freehold Surgical, LLC	1278433	3/19/2017	China	Freehold Surgical
Freehold Surgical, LLC	1278433	6/2/2016	Japan	Freehold Surgical
Freehold Surgical, LLC	1278433	12/19/2016	Mexico	Freehold Surgical
Freehold Surgical, LLC	1278433	2/27/2017	Korea	Freehold Surgical
Freehold Surgical, LLC	1278433	10/19/2016	Europe	Freehold Surgical
Freehold Surgical, LLC	4689065	2/17/2015	USA	Freehold Duo
Freehold Surgical, LLC	4689066	2/17/2015	USA	Freehold Trio
BackBeat Medical, LLC	4954971	5/10/2016	USA	Moderato
Caliber Therapeutics, LLC	4813266	9/15/2015	USA	Virtue
Orchestra Biomed, Inc.	97/524559	7/28/2022	USA	Orchestra Biomed
Orchestra Biomed, Inc.	88/429966	5/14/2019	USA	Orchestra Biomed

Trademark Applications

Applicant	Application No.	Filing Date	Jurisdiction	Trademark Name
BackBeat Medical, LLC	98/054938	6/22/2023	USA	BACKBEAT MEDICAL
BackBeat Medical, LLC	1764459	10/18/2023	Br, Ca, Cn, Eu, Jp, Ce	BACKBEAT MEDICAL
BackBeat Medical, LLC	98/054927	6/22/2023	USA	BACKBEAT CNT
BackBeat Medical, LLC	1763496	10/13/2023	Br, Ca, Cn, Eu, Jp, Ce	BACKBEAT CNT
BackBeat Medical, LLC	98/054943	6/22/2023	USA	BACKBEAT CARDIAC NEUROMODULATION THERAPY
BackBeat Medical, LLC	1763502	10/13/2023	Br, Ca, Cn, Eu, Jp, Ce	BACKBEAT CARDIAC NEUROMODULATION THERAPY
Caliber Therapeutics, LLC	98/126048	8/10/2023	USA	SOSTENOCEL
Caliber Therapeutics, LLC	98/126021	8/10/2023	USA	ANGIOINFUSION

Caliber Therapeutics, LLC	98/126058	8/10/2023	USA	SIROLIMUSEFR
Caliber Therapeutics, LLC	98/126072	8/10/2023	USA	VIRTUE SIROLIMUS ANGIOINFUSION BALLOON
Caliber Therapeutics, LLC	1778355	1/12/2024	Au, Br, Ca, Cn, Eu, Jp, Ce	SOSTENOCEL
Caliber Therapeutics, LLC	1777650	1/12/2024	Au, Br, Ca, Cn, Eu, Jp, Ce	ANGIOINFUSION
Caliber Therapeutics, LLC	1778358	1/12/2024	Au, Br, Ca, Cn, Eu, Jp, Ce	SIROLIMUSEFR
Caliber Therapeutics, LLC	1777649	1/12/2024	Au, Br, Ca, Cn, Eu, Jp, Ce	VIRTUE SIROLIMUS ANGIOINFUSION BALLOON

SCHEDULE C

Registered Patents

<u>Owner</u>	<u>Patent No.</u>	<u>Issue Date</u>	<u>Expiration Date</u>	<u>Jurisdiction</u>	<u>Patent Title</u>
Freehold Surgical, LLC	8,251,889	8/28/2012	12/30/2030	USA	APPARATUS AND METHOD FOR INTRA-ABDOMINALLY MOVING A FIRST INTERNAL ORGAN TO A POSITION AWAY FROM A SECOND INTERNAL ORGAN AND THEN HOLDING THE FIRST INTERNAL ORGAN IN THE POSITION WITHOUT MANUAL INPUT
Freehold Surgical, LLC	8,888,679	11/18/2014	1/6/2031	USA	APPARATUS AND METHOD FOR INTRA-ABDOMINALLY MOVING A FIRST INTERNAL ORGAN TO A POSITION AWAY FROM A SECOND INTERNAL ORGAN AND THEN HOLDING THE FIRST INTERNAL ORGAN IN THE POSITION WITHOUT MANUAL INPUT
Freehold Surgical, LLC	9,549,727	1/24/2017	2/25/3030	USA	APPARATUS AND METHOD FOR INTRA-ABDOMINALLY MOVING A FIRST INTERNAL ORGAN TO A POSITION

					AWAY FROM A SECOND INTERNAL ORGAN AND THEN HOLDING THE FIRST INTERNAL ORGAN IN THE POSITION WITHOUT MANUAL INPUT
	9,451,941	9/27/2016	8/25/2031	USA	APPARATUS AND METHOD FOR INTRA-ABDOMINALLY MOVING A FIRST INTERNAL ORGAN TO A POSITION AWAY FROM A SECOND INTERNAL ORGAN AND THEN HOLDING THE FIRST INTERNAL ORGAN IN THE POSITION WITHOUT MANUAL INPUT
Freehold Surgical, LLC	9,615,952	4/11/2017	4/4/2032	USA	APPARATUS AND METHOD FOR CREATING A LUMEN OF A DESIRED SHAPE AND SIZE IN A HOLLOW VISCUS ORGAN FROM TISSUE OF THE ORGAN
Freehold Surgical, LLC	9,687,218	6/27/2017	8/25/2031	USA	APPARATUS AND METHOD FOR INTRA-ABDOMINALLY MOVING A FIRST INTERNAL ORGAN TO A POSITION AWAY FROM A SECOND INTERNAL ORGAN AND THEN HOLDING THE FIRST INTERNAL ORGAN IN THE

					POSITION WITHOUT MANUAL INPUT
					APPARATUS AND METHOD FOR INTRA-ABDOMINALLY MOVING A FIRST INTERNAL ORGAN TO A POSITION AWAY FROM A SECOND INTERNAL ORGAN AND THEN HOLDING THE FIRST INTERNAL ORGAN IN THE POSITION WITHOUT MANUAL INPUT
Freehold Surgical, LLC	9,782,160	10/10/2017	8/25/2031	USA	
	9,855,044	1/2/2018	1/7/2035	USA	APPARATUS AND METHOD FOR DELIVERING SURGICAL TISSUE CONNECTORS INTO AN ABDOMINAL CAVITY AND REMOVING THE SURGICAL TISSUE CONNECTORS FROM THE ABDOMINAL CAVITY
Freehold Surgical, LLC	10,398,581	9/3/2019	4/4/2032	USA	APPARATUS AND METHOD FOR CREATING A LUMEN OF A DESIRED SHAPE AND SIZE IN A HOLLOW VISCUS ORGAN FROM TISSUE OF THE ORGAN
Freehold Surgical, LLC	10,524,773	1/7/2020	6/13/2032	USA	APPARATUS AND METHOD FOR INTRA-ABDOMINALLY MOVING A FIRST INTERNAL ORGAN TO A POSITION AWAY FROM A SECOND

					INTERNAL ORGAN AND THEN HOLDING THE FIRST INTERNAL ORGAN IN THE POSITION WITHOUT MANUAL INPUT
	10,743,878	8/18/2020	7/25/2034	USA	APPARATUS AND METHOD FOR DELIVERING SURGICAL TISSUE CONNECTORS INTO AN ABDOMINAL CAVITY AND REMOVING THE SURGICAL TISSUE CONNECTORS FROM THE ABDOMINAL CAVITY
Freehold Surgical, LLC					
	10,835,219	11/17/2020	4/19/2037	USA	SPECIMEN RETRIEVAL SYSTEM FOR USE IN ENDOSCOPIC SURGERY
Freehold Surgical, LLC					
	11,224,416	1/18/2022	9/4/2031	USA	APPARATUS AND METHOD FOR INTRA-ABDOMINALLY MOVING A FIRST INTERNAL ORGAN TO A POSITION AWAY FROM A SECOND INTERNAL ORGAN AND THEN HOLDING THE FIRST INTERNAL ORGAN IN THE POSITION WITHOUT MANUAL INPUT
Freehold Surgical, LLC					
	11,737,901	8/29/2023	4/4/2032	USA	METHOD FOR PERFORMING A GASTRECTOMY
Freehold Surgical, LLC					
	11786249	10/17/2023	7/25/2034	USA	APPARATUS AND METHOD FOR DELIVERING SURGICAL

					TISSUE CONNECTORS INTO AN ABDOMINAL CAVITY AND REMOVING THE SURGICAL TISSUE CONNECTORS FROM THE ABDOMINAL CAVITY
Freehold Surgical, LLC	11832803	12/5/2023	4/19/2037	USA	SPECIMEN RETRIEVAL SYSTEM FOR USE IN ENDOSCOPIC SURGERY
	11918199	3/5/2024		USA	APPARATUS AND METHOD FOR INTRA-ABDOMINALLY MOVING A FIRST INTERNAL ORGAN TO A POSITION AWAY FROM A SECOND INTERNAL ORGAN AND THEN HOLDING THE FIRST INTERNAL ORGAN IN THE POSITION WITHOUT MANUAL INPUT
Freehold Surgical, LLC	2010217963	1/30/2014	2/25/2030	Australia	APPARATUS AND METHOD FOR INTRA-ABDOMINALLY MOVING A FIRST INTERNAL ORGAN TO A POSITION AWAY FROM A SECOND INTERNAL ORGAN AND THEN HOLDING THE FIRST INTERNAL ORGAN IN THE POSITION WITHOUT MANUAL INPUT
Freehold Surgical, LLC	2011375467	6/22/2017	8/25/2031	Australia	APPARATUS AND METHOD FOR INTRA-ABDOMINALLY

					MOVING A FIRST INTERNAL ORGAN TO A POSITION AWAY FROM A SECOND INTERNAL ORGAN AND THEN HOLDING THE FIRST INTERNAL ORGAN IN THE POSITION WITHOUT MANUAL INPUT
Freehold Surgical, LLC	2013280369	6/22/2017	6/26/2033	Australia	APPARATUS AND METHOD FOR DELIVERING SURGICAL TISSUE CONNECTORS INTO AN ABDOMINAL CAVITY AND REMOVING THE SURGICAL TISSUE CONNECTORS FROM THE ABDOMINAL CAVITY
Freehold Surgical, LLC	2017203467	3/19/2020	6/26/2033	Australia	APPARATUS AND METHOD FOR DELIVERING SURGICAL TISSUE CONNECTORS INTO AN ABDOMINAL CAVITY AND REMOVING THE SURGICAL TISSUE CONNECTORS FROM THE ABDOMINAL CAVITY
Freehold Surgical, LLC	2753257	4/28/2015	3/9/2032	Canada	APPARATUS AND METHOD FOR INTRA-ABDOMINALLY MOVING A FIRST INTERNAL ORGAN TO A POSITION AWAY FROM A SECOND INTERNAL ORGAN AND THEN HOLDING THE FIRST

					INTERNAL ORGAN IN THE POSITION WITHOUT MANUAL INPUT
Freehold Surgical, LLC	2882469	5/2/2017	2/25/2030	Canada	APPARATUS AND METHOD FOR INTRA-ABDOMINALLY MOVING A FIRST INTERNAL ORGAN TO A POSITION AWAY FROM A SECOND INTERNAL ORGAN AND THEN HOLDING THE FIRST INTERNAL ORGAN IN THE POSITION WITHOUT MANUAL INPUT
Freehold Surgical, LLC	2846497	6/27/2017	8/25/2031	Canada	APPARATUS AND METHOD FOR INTRA-ABDOMINALLY MOVING A FIRST INTERNAL ORGAN TO A POSITION AWAY FROM A SECOND INTERNAL ORGAN AND THEN HOLDING THE FIRST INTERNAL ORGAN IN THE POSITION WITHOUT MANUAL INPUT
Freehold Surgical, LLC	2877865	9/1/2020	6/26/2033	Canada	APPARATUS AND METHOD FOR DELIVERING SURGICAL TISSUE CONNECTORS INTO AN ABDOMINAL CAVITY AND REMOVING THE SURGICAL TISSUE CONNECTORS FROM THE ABDOMINAL CAVITY

	5627029	10/10/2014	12/30/2030	Japan	APPARATUS AND METHOD FOR INTRA-ABDOMINALLY MOVING A FIRST INTERNAL ORGAN TO A POSITION AWAY FROM A SECOND INTERNAL ORGAN AND THEN HOLDING THE FIRST INTERNAL ORGAN IN THE POSITION WITHOUT MANUAL INPUT
Freehold Surgical, LLC					
	6148337	5/26/2017	6/26/2033	Japan	APPARATUS AND METHOD FOR DELIVERING SURGICAL TISSUE CONNECTORS INTO AN ABDOMINAL CAVITY AND REMOVING THE SURGICAL TISSUE CONNECTORS FROM THE ABDOMINAL CAVITY
Freehold Surgical, LLC					
	6328302	4/27/2018	6/26/2033	Japan	APPARATUS AND METHOD FOR DELIVERING SURGICAL TISSUE CONNECTORS INTO AN ABDOMINAL CAVITY AND REMOVING THE SURGICAL TISSUE CONNECTORS FROM THE ABDOMINAL CAVITY
Freehold Surgical, LLC					
	6553243	7/12/2019	6/26/2033	Japan	APPARATUS AND METHOD FOR DELIVERING SURGICAL TISSUE CONNECTORS INTO AN ABDOMINAL CAVITY AND REMOVING THE
Freehold Surgical, LLC					

					SURGICAL TISSUE CONNECTORS FROM THE ABDOMINAL CAVITY
	ZL201380042514.7	1/8/2019	6/26/2033	Canada	APPARATUS AND METHOD FOR DELIVERING SURGICAL TISSUE CONNECTORS INTO AN ABDOMINAL CAVITY AND REMOVING THE SURGICAL TISSUE CONNECTORS FROM THE ABDOMINAL CAVITY
Freehold Surgical, LLC					
	ZL201780037810.6	7/13/2021	4/19/2037	Canada	SPECIMEN RETRIEVAL SYSTEM FOR USE IN ENDOSCOPIC SURGERY
Freehold Surgical, LLC					
	429504	4/20/2023	6/26/2033	IN	APPARATUS AND METHOD FOR DELIVERING SURGICAL TISSUE CONNECTORS INTO AN ABDOMINAL CAVITY AND REMOVING THE SURGICAL TISSUE CONNECTORS FROM THE ABDOMINAL CAVITY
Freehold Surgical, LLC					
	2750613	11/1/2017	8/25/2031	EU - DE, FR, UK	APPARATUS AND METHOD FOR INTRA-ABDOMINALLY MOVING A FIRST INTERNAL ORGAN TO A POSITION AWAY FROM A SECOND INTERNAL ORGAN AND THEN HOLDING THE FIRST INTERNAL ORGAN IN THE
Freehold Surgical, LLC					

					POSITION WITHOUT MANUAL INPUT
	2866679	11/7/2018	6/26/2033	EU - DE, FR, UK	APPARATUS AND METHOD FOR DELIVERING SURGICAL TISSUE CONNECTORS INTO AN ABDOMINAL CAVITY AND REMOVING THE SURGICAL TISSUE CONNECTORS FROM THE ABDOMINAL CAVITY
Freehold Surgical, LLC					
Freehold Surgical, LLC	3445260	8/18/2021	4/19/2037	EU - DE, FR, UK	SPECIMEN RETRIEVAL SYSTEM FOR USE IN ENDOSCOPIC SURGERY
BackBeat Medical, LLC	9,008,769	4/14/2015	8/31/2033	USA	Methods and Systems for Lowering Blood Pressure through Reduction of Ventricle Filling
	9,333,352	5/10/2016	3/14/2033	USA	Methods and Systems for Lowering Blood Pressure Through Reduction of Ventricle Filling
BackBeat Medical, LLC					
BackBeat Medical, LLC	9,370,662	6/21/2016	8/31/2033	USA	Methods And Systems For Controlling Blood Pressure By Controlling Atrial Pressure
	9,526,900	12/27/2016	8/31/2033	USA	Methods And Systems For Controlling Blood Pressure By Controlling Atrial Pressure
BackBeat Medical, LLC					
BackBeat Medical, LLC	9,656,086	5/23/2017	3/14/2033	USA	Methods and Systems for Lowering Blood Pressure

					Through Reduction of Ventricle Filling
BackBeat Medical, LLC	9,878,162	1/30/2018	8/31/2033	USA	Methods And Systems For Controlling Blood Pressure By Controlling Atrial Pressure
BackBeat Medical, LLC	9,937,351	4/10/2018	7/4/2034	USA	Methods And Systems For Lowering Blood Pressure Through Reduction Of Ventricle Filling
BackBeat Medical, LLC	10,071,250	9/11/2018	3/14/2033	USA	Methods And Systems For Lowering Blood Pressure Through Reduction Of Ventricle Filling
BackBeat Medical, LLC	10,252,061	4/9/2019	8/31/2033	USA	Methods And Systems For Controlling Blood Pressure By Controlling Atrial Pressure
BackBeat Medical, LLC	10,441,794	10/15/2019	3/14/2033	USA	Methods And Systems For Lowering Blood Pressure Through Reduction Of Ventricle Filling
BackBeat Medical, LLC	10,485,658	11/26/2019	5/16/2037	USA	Methods And Systems For Controlling Blood Pressure
BackBeat Medical, LLC	10,610,689	4/7/2020	3/14/2033	USA	Methods and Systems for Lowering Blood Pressure Through Reduction of Ventricle Filling

BackBeat Medical, LLC	10,967,188	9/5/2019	7/21/2034	USA	Methods And Systems For Controlling Blood Pressure By Controlling Atrial Pressure
BackBeat Medical, LLC	11,097,108	8/24/2021	12/19/2033	USA	Methods and Systems for Lowering Blood Pressure through Reduction of Ventricle Filling
BackBeat Medical, LLC	11,426,589	8/30/2022	3/17/2038	USA	Methods and Systems for Controlling Blood Pressure
BackBeat Medical, LLC	11,452,875	9/27/2022	3/14/2033	USA	Methods and Systems for Lowering Blood Pressure Through Reduction of Ventricle Filling
BackBeat Medical, LLC	11,712,567	8/1/2023	8/31/2033	USA	Methods And Systems For Controlling Blood Pressure By Controlling Atrial Pressure
BackBeat Medical, LLC	11,969,598	4/30/2024	4/20/2037	USA	Methods And Systems For Controlling Blood Pressure
BackBeat Medical, LLC	11,986,661	5/21/2024	3/14/2033	USA	Methods and Systems for Lowering Blood Pressure through Reduction of Ventricle Filling
BackBeat Medical, LLC	EP2934669	7/9/2015	12/19/2033	Europe: CH, DE, ES, FR, UK, IT, SE	Systems for Lowering Blood Pressure Through Reduction of Ventricle Filling
BackBeat Medical, LLC	EP3082949	11/14/2018	6/17/2034	Europe: CH, DE, FR, UK, SE	Systems For Controlling Blood Pressure By Controlling Atrial Pressure

BackBeat Medical, LLC	EP3238777	10/16/2019	12/19/2033	Europe: CH, DE, FR, UK, SE	Systems for Lowering Blood Pressure Through Reduction of Ventricle Filling
BackBeat Medical, LLC	EP3461531	10/14/2020	6/17/2034	Europe: CH, DE, FR, UK, SE	Systems For Controlling Blood Pressure By Controlling Atrial Pressure
BackBeat Medical, LLC	EP3639888	5/12/2021	12/19/2033	Europe: DE, FR, UK,	Methods and Systems for Lowering Blood Pressure through Reduction of Ventricle Filling
BackBeat Medical, LLC	EP3445443	11/17/2021	4/21/2037	Europe: CH, DE, ES, FR, UK, IT, SE	Methods and Systems for Controlling Blood Pressure
BackBeat Medical, LLC	EP3954429	8/2/2023	4/17/2041	Europe: CH, DE, FR, UK, SE	Methods and Systems for Controlling Blood Pressure
BackBeat Medical, LLC	ZL201380072479.3	11/3/2017	12/18/2033	CN	Methods and Systems for Lowering Blood Pressure through Reduction of Ventricle Filling
BackBeat Medical, LLC	ZL201480075987.1	11/30/2018	6/16/2034	CN	Methods And Systems For Controlling Blood Pressure By Controlling Atrial Pressure
BackBeat Medical, LLC	ZL2017109301826	6/4/2021	12/18/2033	CN	Methods and Systems for Lowering Blood Pressure through Reduction of Ventricle Filling
BackBeat Medical, LLC	ZL2018113777986	8/12/2022	6/16/2034	CN	Methods And Systems For Controlling Blood Pressure By Controlling Atrial Pressure

BackBeat Medical, LLC	ZL201780034227X	10/20/2023	4/20/2037	CN	Methods and Systems for Controlling Blood Pressure
BackBeat Medical, LLC	HK1226016	10/25/2019	6/16/2034	HK	Methods And Systems For Controlling Blood Pressure By Controlling Atrial Pressure
BackBeat Medical, LLC	HK1243968	12/17/2021	12/18/2033	HK	Methods and Systems for Lowering Blood Pressure through Reduction of Ventricle Filling
BackBeat Medical, LLC	AU2013361318	8/30/2018	12/19/2033	Australia	Methods and Systems for Lowering Blood Pressure through Reduction of Ventricle Filling
BackBeat Medical, LLC	AU2014367229	7/18/2019	6/17/2034	Australia	Methods And Systems For Controlling Blood Pressure By Controlling Atrial Pressure
BackBeat Medical, LLC	AU2018217270	10/1/2020	12/18/2033	Australia	Methods and Systems for Lowering Blood Pressure through Reduction of Ventricle Filling
BackBeat Medical, LLC	AU2019204758	10/7/2021	6/17/2034	Australia	Systems For Controlling Blood Pressure By Controlling Atrial Pressure
BackBeat Medical, LLC	AU2017252310	10/20/2022	4/21/2037	Australia	Methods and Systems for Controlling Blood Pressure
BackBeat Medical, LLC	CA2893222	3/29/2022	12/19/2033	Canada	Methods and Systems for Lowering Blood Pressure through Reduction of Ventricle Filling

BackBeat Medical, LLC	CA2933278	3/14/2023	6/17/2034	Canada	Methods And Systems For Controlling Blood Pressure By Controlling Atrial Pressure
BackBeat Medical, LLC	JP6457530	12/28/2018	6/17/2034	Japan	Methods And Systems For Controlling Blood Pressure By Controlling Atrial Pressure
BackBeat Medical, LLC	JP6510421	4/12/2019	12/19/2033	Japan	Systems for Lowering Blood Pressure through Reduction of Ventricle Filling
BackBeat Medical, LLC	JP6381087	2/1/2021	12/19/2033	Japan	Methods and Systems for Lowering Blood Pressure through Reduction of Ventricle Filling
BackBeat Medical, LLC	JP6839163	2/16/2021	6/17/2034	Japan	Systems For Controlling Blood Pressure By Controlling Atrial Pressure
BackBeat Medical, LLC	JP7050693	3/31/2022	4/21/2037	Japan	Methods and Systems for Controlling Blood Pressure
BackBeat Medical, LLC	JP7138202	9/7/2022	12/19/2033	Japan	Methods and Systems for Lowering Blood Pressure Through Reduction of Ventricle Filling
BackBeat Medical, LLC	JP7222962	2/7/2023	6/17/2034	Japan	Methods And Systems For Controlling Blood Pressure By Controlling Atrial Pressure
BackBeat Medical, LLC	JP7395638	12/11/2023	4/21/2037	Japan	Methods and Systems for Controlling Blood Pressure

BackBeat Medical, LLC	KR10-2221586	2/23/2021	12/19/2033	Korea	Methods and Systems for Lowering Blood Pressure through Reduction of Ventricle Filling
BackBeat Medical, LLC	KR10-2323562	11/2/2021	6/17/2034	Korea	Systems For Controlling Blood Pressure By Controlling Atrial Pressure
BackBeat Medical, LLC	KR10-2367191	2/25/2022	12/19/2033	Korea	Methods and Systems for Lowering Blood Pressure through Reduction of Ventricle Filling
BackBeat Medical, LLC	KR10-2471841	11/24/2022	6/17/2034	Korea	Methods And Systems For Controlling Blood Pressure By Controlling Atrial Pressure
BackBeat Medical, LLC	401318	7/14/2022	12/19/2033	India	Methods and Systems for Lowering Blood Pressure Through Reduction of Ventricle Filling
BackBeat Medical, LLC	409845	10/26/2022	4/21/2037	India	Methods and Systems for Controlling Blood Pressure
BackBeat Medical, LLC	516531	2/28/2024	4/21/2037	India	Methods and Systems for Controlling Blood Pressure
BackBeat Medical, LLC	7,869,874	1/11/2011	11/7/2028	USA	Methods and Apparatus to Stimulate Heart Atria
BackBeat Medical, LLC	8,515,536	8/20/2013	3/15/2028	USA	Methods and Apparatus to Stimulate Heart Atria
BackBeat Medical, LLC	8,340,763	12/25/2012	3/25/2031	USA	Methods and Apparatus to Stimulate Heart Atria

BackBeat Medical, LLC	8,165,674	4/24/2012	7/13/2029	USA	Methods and Apparatus to Increase Secretion of Endogenous Naturetic Hormones
BackBeat Medical, LLC	8,521,280	8/27/2013	3/1/2026	USA	Methods and Apparatus to Increase Secretion of Endogenous Naturetic Hormones
BackBeat Medical, LLC	9,370,661	6/21/2016	9/25/2030	USA	Methods and Apparatus to Stimulate Heart Atria
BackBeat Medical, LLC	9,427,586	8/30/2016	11/15/2027	USA	Methods and Apparatus to Stimulate Heart Atria
BackBeat Medical, LLC	9,687,636	6/27/2017	3/1/2026	USA	Methods and Apparatus to Increase Secretion of Endogenous Naturetic Hormones
BackBeat Medical, LLC	9731136	8/15/2017	9/8/2029	USA	Methods and Apparatus to Stimulate Heart Atria
BackBeat Medical, LLC	10,252,060	4/9/2019	9/8/2029	USA	Methods and Apparatus to Stimulate the Heart
BackBeat Medical, LLC	10,369,333	8/6/2019	9/27/2026	USA	Methods and Apparatus to Increase Secretion of Endogenous Naturetic Hormones
BackBeat Medical, LLC	11,083,894	8/10/2021	9/8/2029	USA	Methods and Apparatus to Stimulate the Heart
BackBeat Medical, LLC	11,577,059	2/14/2023	9/27/2026	USA	Methods and Apparatus to Increase Secretion of Endogenous Naturetic Hormones
BackBeat Medical, LLC	11,759,639	9/19/2023	10/30/2029	USA	Methods and Apparatus to Stimulate Heart Atria

BackBeat Medical, LLC	8,086,315	12/27/2011	7/3/2026	USA	Cardiac Stimulation Apparatus And Method For The Control Of Hypertension
BackBeat Medical, LLC	8,428,729	4/23/2013	2/11/2025	USA	Cardiac Stimulation Apparatus And Method For The Control Of Hypertension
BackBeat Medical, LLC	9,320,903	4/26/2014	10/19/2025	USA	Cardiac Stimulation Apparatus And Method For The Control Of Hypertension
BackBeat Medical, LLC	10,232,183	3/19/2019	3/22/2025	USA	Cardiac Stimulation Apparatus And Method For The Control Of Hypertension
BackBeat Medical, LLC	11,406,829	8/9/2022	10/4/2026	USA	Cardiac Stimulation Apparatus And Method For The Control Of Hypertension
BackBeat Medical, LLC	12,029,909	7/9/2024	2/11/2025	USA	Cardiac Stimulation Apparatus And Method For The Control Of Hypertension
BackBeat Medical, LLC	10342982	7/9/2019	9/8/2036	USA	Methods and Systems for Treating Cardiac Malfunction
BackBeat Medical, LLC	10596380	3/24/2020	11/15/2027	USA	Methods and Apparatus to Stimulate Heart Atria
BackBeat Medical, LLC	11529520	12/20/2022	11/15/2027	USA	Methods and Apparatus to Stimulate Heart Atria
BackBeat Medical, LLC	11389658	6/29/2022	9/8/2036	USA	Methods and Systems for Treating Cardiac Malfunction

BackBeat Medical, LLC	AU2016319787	9/9/2021	9/9/2036	Australia	Methods and Systems for Treating Cardiac Malfunction
	EP3347090	11/3/2021	9/9/2036	Europe: CH, DE, ES, FR, UK, IT, SE	Methods and Systems for Treating Cardiac Malfunction
BackBeat Medical, LLC	JP6999545	12/24/2021	9/9/2036	Japan	Methods and Systems for Treating Cardiac Malfunction
BackBeat Medical, LLC	ZL2016800526048	3/4/2022	9/9/2036	China	Methods and Systems for Treating Cardiac Malfunction
BackBeat Medical, LLC	KR10-2630590	1/24/2024	9/9/2036	Korea	Methods and Systems for Treating Cardiac Malfunction
BackBeat Medical, LLC	514118	2/22/2024	9/9/2036	India	Methods and Systems for Treating Cardiac Malfunction
BackBeat Medical, LLC	CA2996312	2/20/2024	9/9/2036	Canada	Methods and Systems for Treating Cardiac Malfunction
		4/15/2014	3/9/2032	USA	Balloon Catheter Systems for Delivery of Dry Drug Delivery Vesicles to a Vessel in the Body
Caliber Therapeutics, LLC	8,696,644				
Caliber Therapeutics, LLC	8,715,230	5/6/2014	12/30/2030	USA	Balloon Catheter Systems for Delivery of Dry Drug Delivery Vesicles to a Vessel in the Body
Caliber Therapeutics, LLC	9,649,478	5/16/2017	12/30/2030	USA	Balloon Catheter Systems for Delivery of Dry Drug Delivery Vesicles to a Vessel in the Body
Caliber Therapeutics, LLC	9,649,479	5/16/2017	12/30/2030	USA	Balloon Catheter Systems for Delivery of Dry Drug Delivery Vesicles to a Vessel in the Body

Caliber Therapeutics, LLC	10,207,084	2/19/2019	1/6/2031	USA	Balloon Catheter Systems for Delivery of Dry Drug Delivery Vesicles to a Vessel in the Body
Caliber Therapeutics, LLC	10,806,909	10/20/2020	1/6/2031	USA	Balloon Catheter Systems for Delivery of Dry Drug Delivery Vesicles to a Vessel in the Body
Caliber Therapeutics, LLC	AU2010339379	5/29/2014	12/30/2030	Australia	Balloon Catheter Systems for Delivery of Dry Drug Delivery Vesicles to a Vessel in the Body
Caliber Therapeutics, LLC	AU2014202452	5/12/2016	12/30/2030	Australia	Balloon Catheter Systems for Delivery of Dry Drug Delivery Vesicles to a Vessel in the Body
Caliber Therapeutics, LLC	AU2016202636	9/21/2017	12/30/2030	Australia	Balloon Catheter Systems for Delivery of Dry Drug Delivery Vesicles to a Vessel in the Body
Caliber Therapeutics, LLC	AU2017225072	5/6/2019	12/30/2030	Australia	Balloon Catheter Systems for Delivery of Dry Drug Delivery Vesicles to a Vessel in the Body
Caliber Therapeutics, LLC	AU2019202994	12/17/2020	12/30/2030	Australia	Balloon Catheter Systems for Delivery of Dry Drug Delivery Vesicles to a Vessel in the Body
Caliber Therapeutics, LLC	AU2020281081	10/6/2022	12/30/2030	Australia	Balloon Catheter Systems for Delivery of Dry Drug Delivery Vesicles to a Vessel in the Body
Caliber Therapeutics, LLC	ZL201080064442.2	4/29/2015	12/30/2030	China	Balloon Catheter Systems for Delivery of Dry Drug Delivery Vesicles to a Vessel in the Body

Caliber Therapeutics, LLC	ZL201822023030.0	1/21/2020	12/4/2028	China	Balloon Catheter System for Infusion of Micelles at High Pressure
Caliber Therapeutics, LLC	JP5553908	6/6/2014	12/30/2030	Japan	Balloon Catheter Systems for Delivery of Dry Drug Delivery Vesicles to a Vessel in the Body
Caliber Therapeutics, LLC	2786282	9/8/2020	12/30/2030	Canada	Balloon Catheter Systems for Delivery of Dry Drug Delivery Vesicles to a Vessel in the Body
Caliber Therapeutics, LLC	3065396	11/15/2022	12/30/2030	Canada	Balloon Catheter Systems for Delivery of Dry Drug Delivery Vesicles to a Vessel in the Body
Caliber Therapeutics, LLC	EP2603274	12/16/2020	12/30/2030	Europe - CH, DE, ES, FR, UK, IT, NL, SE	Balloon Catheter Systems for Delivery of Dry Drug Delivery Vesicles to a Vessel in the Body
Caliber Therapeutics, LLC	IN385350	12/28/2021	12/30/2030	India	Balloon Catheter Systems for Delivery of Dry Drug Delivery Vesicles to a Vessel in the Body

Patent Applications

<u>Applicant</u>	<u>Application No.</u>	<u>Filing Date</u>	<u>Jurisdiction</u>	<u>Patent Name</u>
Freehold Surgical, LLC	PCT/US2010/025425	2/25/2009	N/A	APPARATUS AND METHOD FOR INTRA-ABDOMINALLY MOVING A FIRST INTERNAL ORGAN TO A POSITION

				AWAY FROM A SECOND INTERNAL ORGAN AND THEN HOLDING THE FIRST INTERNAL ORGAN IN THE POSITION WITHOUT MANUAL INPUT
Freehold Surgical, LLC	PCT/US2013/047862	6/26/2013		APPARATUS AND METHOD FOR DELIVERING SURGICAL TISSUE CONNECTORS INTO AN ABDOMINAL CAVITY AND REMOVING THE SURGICAL TISSUE CONNECTORS FROM THE ABDOMINAL CAVITY
			N/A	
Freehold Surgical, LLC	PCT/US2012/032138	4/4/2012		APPARATUS AND METHOD FOR CREATING A LUMEN OF A DESIRED SHAPE AND SIZE IN A HOLLOW VISCUS ORGAN FROM TISSUE OF THE ORGAN
			N/A	
Freehold Surgical, LLC	PCT/US2017/028375	4/29/2016		SPECIMEN RETRIEVAL SYSTEM FOR USE IN ENDOSCOPIC SURGERY
			N/A	
BackBeat Medical, LLC	PCT/US2013/076600	12/19/2013		Methods and Systems for Lowering Blood Pressure through Reduction of Ventricle Filling
			N/A	
BackBeat Medical, LLC	PCT/US2014/042777	6/17/2014		Methods And Systems For Controlling Blood Pressure By Controlling Atrial Pressure
			N/A	
BackBeat Medical, LLC	PCT/US2017/028715	4/21/2017		Methods And Systems For Controlling Blood Pressure
			N/A	
BackBeat Medical, LLC	PCT/US2016/051023	9/9/2016		Methods and Systems for Treating Cardiac Malfunction
			N/A	

Caliber Therapeutics, LLC	PCT/US2010/062606	12/30/2010	N/A	Balloon Catheter Systems for Delivery of Dry Drug Delivery Vesicles to a Vessel in the Body
Caliber Therapeutics, LLC	PCT/US2019/053267	9/26/2019	N/A	Balloon Catheter System for Infusion of Micelles At High Pressure

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