PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

EPAS ID: PAT5525222

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
VOYAGE MEDICAL, INC.	08/16/2013

RECEIVING PARTY DATA

Name:	INTUITIVE SURGICAL OPERATIONS, INC.
Street Address:	1020 KIFER ROAD
City:	SUNNYVALE
State/Country:	CALIFORNIA
Postal Code:	94086

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	16413328

CORRESPONDENCE DATA

Fax Number: (214)200-0853

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: [214] 651-5000
Email: effei.dah@haynesboone.com
Correspondent Name: HAYNES AND BOONE, LLP
Address Line 1: 2323 VICTORY AVENUE
Address Line 2: SUITE 700
Address Line 4: DALLAS, TEXAS 75219

ATTORNEY DOCKET NUMBER:	VYMD01200C1/US
NAME OF SUBMITTER:	EFFEI DAH
SIGNATURE:	/Effei Dah/
DATE SIGNED:	05/15/2019

Total Attachments: 16
source=VYMD01200C1US_70228_349US02_Assignment_VYMD_ISRG#page1.tif
source=VYMD01200C1US_70228_349US02_Assignment_VYMD_ISRG#page2.tif
source=VYMD01200C1US_70228_349US02_Assignment_VYMD_ISRG#page3.tif
source=VYMD01200C1US_70228_349US02_Assignment_VYMD_ISRG#page4.tif
source=VYMD01200C1US_70228_349US02_Assignment_VYMD_ISRG#page5.tif

source=VYMD01200C1US_70228_349US02_Assignment_VYMD_ISRG#page6.tif
source=VYMD01200C1US_70228_349US02_Assignment_VYMD_ISRG#page7.tif
source=VYMD01200C1US_70228_349US02_Assignment_VYMD_ISRG#page8.tif
source=VYMD01200C1US_70228_349US02_Assignment_VYMD_ISRG#page9.tif
source=VYMD01200C1US_70228_349US02_Assignment_VYMD_ISRG#page10.tif
source=VYMD01200C1US_70228_349US02_Assignment_VYMD_ISRG#page11.tif
source=VYMD01200C1US_70228_349US02_Assignment_VYMD_ISRG#page12.tif
source=VYMD01200C1US_70228_349US02_Assignment_VYMD_ISRG#page13.tif
source=VYMD01200C1US_70228_349US02_Assignment_VYMD_ISRG#page14.tif
source=VYMD01200C1US_70228_349US02_Assignment_VYMD_ISRG#page15.tif
source=VYMD01200C1US_70228_349US02_Assignment_VYMD_ISRG#page16.tif

ASSIGNMENT

THIS ASSIGNMENT, by Voyage Medical, Inc., (hereinafter referred to as the assignor), a corporation duly organized under and pursuant to the laws of Delaware and having its principal place of business at 610 Galveston Drive, Redwood City, CA 94063, USA, witnesseth:

WHEREAS, said assignor has invented certain new and useful improvements set forth in applications for Letters Patent and Letters Patent of the United States as bearing Application Nos. as listed in the SCHEDULE following herewith; and

WHEREAS, Intuitive Surgical Operations, Inc., (hereinafter referred to as the assignee) a Delaware corporation is desirous of acquiring the entire right, title and interest in and to said inventions and said applications for Letters Patent of the United States, and in and to any Letters Patent or Patents, United States or foreign, to be obtained therefore and thereon:

NOW, THEREFORE, for good and sufficient consideration, receipt of which is hereby acknowledged by assignors, said assignors have sold, assigned, transferred and set over, and by these presents do sell, assign, transfer and set over, unto said assignee, its successors, legal representatives and assigns, as of August 16, 2013, the entire right, title and interest in and to, and the right to claim priority to and for the above-mentioned inventions, application for Letters Patent, and any and all Letters Patent or Patents in the United States of America and all foreign countries which may be granted therefore and thereon, and in and to any and all divisions, continuations and continuations-in-part of said application, or reissues or extensions of said Letters Patent or Patents, and all rights under the International Convention for the Protection of Industrial Property, together with all rights to recover damages for past and present infringements and any other causes of action related to any of the said inventions and said applications for Letters Patents of the United States, the same to be held and enjoyed by said assignee, for its own use and the use of its successors, legal representatives and assigns, to the full end of the term or terms for which Letters Patent or Patents may be granted, as fully and entirely as the same would have been held and enjoyed by the assignors, had this sale and assignment not been made.

AND for the same consideration, said assignors hereby covenant and agree to and with said assignee its successors, legal representatives and assigns, that, at the time of execution and delivery of these presents, said assignors are the sole and lawful owners of the entire right, title and interest in and to said inventions and the application for Letters Patent above-mentioned, and that the same are unencumbered and that said assignors have good and full right and lawful authority to sell and convey the same in the manner herein set forth.

AND for the same consideration, said assignors hereby covenant and agree to and with said assignee, its successors, legal representatives and assigns, that said assignors will, whenever counsel of said assignee, or the counsel of its successors, legal representatives and assigns, shall advise that any proceeding in connection with said inventions, or said application for Letters Patent, or any proceeding in connection with Letters Patent for said inventions in any country, including interference proceedings, is lawful and desirable, or that any division, continuation or continuation-in-part of any application for Letters Patent or any reissue or extension of any Letters Patent, to be obtained thereon, is lawful and desirable, sign all papers and documents, take all lawful oaths, and do all acts necessary or required to be done for the procurement, maintenance, enforcement and defense of Letters Patent for said inventions, without charge to

said assignee, its successors, legal representatives and assigns, but at the cost and expense of said assignee, its successors, legal representatives and assigns. Such cost and expense shall include, but is not limited to, lost normal compensation of the respective assignors.

AND this Assignment is effective on no later than the day of the initial filing of the earliest of the patent applications listed herein. This Assignment shall be governed by and construed in accordance with the laws of the State of California and the federal law of the United States of America without reference to conflict of laws principles.

AND said assignors hereby request the Commissioner of Patents to issue said Letters Patent of the United States to said assignee as the assignee of said inventions and the Letters Patent to be issued thereon for the sole use of said assignee, its successors, legal representatives and assigns.

Signature on behalf of assignor:
Voyage Medical, Inc.

By: _____

Name: Allan Zingelar

Title: CEO

Signature on behalf of assignee:
Intuitive Surgical Operations, Inc.

By: _____

Name: Mark Meltzer

Title: Secretary

SCHEDULE

1. Patents

Jurisdiction	Title	Patent Number	Application Date	Issue Date
US	APPARATUS AND METHODS FOR CORONARY SINUS ACCESS	6,979,290	5 /29/2003	12/27/2005
DE	VARIABLE STEERABLE CATHETERS	602005013933.8	2 /17/2005	4 /15/2009
EP	VARIABLE STEERABLE CATHETERS	1727459	2 /17/2005	4 /15/2009
FR	VARIABLE STEERABLE CATHETERS	1727459	2 /17/2005	4 /15/2009
GB	VARIABLE STEERABLE CATHETERS	1727459	2 /17/2005	4 /15/2009
US	TISSUE CLOSURE SYSTEM	7,930,016	11/16/2006	4 /19/2011
EP	TISSUE VISUALIZATION AND MANIPULATION SYSTEM	1845854	1 /30/2006	9 /19/2012
JP	TISSUE VISUALIZATION AND MANIPULATION SYSTEM	4769256	1 /30/2006	6 /24/2011
US	TISSUE VISUALIZATION AND MANIPULATION SYSTEM	7,860,555	10/25/2005	12/28/2010
JP	TISSUE VISUALIZATION AND MANIPULATION SYSTEMS	4828633	3 /16/2007	9 /22/2011
US	TISSUE VISUALIZATION AND MANIPULATION SYSTEMS	7,918,787	3 /16/2007	4 /5 /2011
US	TISSUE VISUALIZATION	8,050,746	7 /10/2007	11/1 /2011

	DEVICE AND METHOD VARIATIONS			
US	TISSUE VISUALIZATION DEVICE	8,419,613	9 /13/2011	4 /16/2013
US	DELIVERY OF BIOLOGICAL COMPOUNDS TO ISCHEMIC AND/OR INFARCTED TISSUE	8,137,333	7 /25/2007	3 /20/2012
US	TISSUE VISUALIZATION DEVICE AND METHOD VARIATIONS	8,221,310	8 /30/2007	7 /17/2012
US	TISSUE IMAGING AND EXTRACTION SYSTEMS	7,860,556	11/16/2006	12/28/2010
US	STABILIZATION OF VISUALIZATION CATHETERS	8,131,350	12/20/2007	3 /6 /2012
US	FLOW REDUCTION HOOD SYSTEMS	8,078,266	2 /5 /2008	12/13/2011
US	FLOW REDUCTION HOOD SYSTEMS	8,417,321	8 /24/2011	4 /9 /2013
US	VISUALIZATION AND ABLATION SYSTEM VARIATIONS	8,235,985	9 /11/2008	8 /7 /2012
US	METHODS OF FORMING ELECTRODE PLACEMENT AND CONNECTION SYSTEMS	8,333,012	10/8 /2009	12/18/2012

2. Patent Applications

Jurisdiction	Title	Serial Number	Application Date
US	CATHETER CONTROL DEVICE (AS AMENDED)	29/320,892	7 /7 /2008
US	APPARATUS AND METHODS FOR CORONARY SINUS ACCESS	11/379,562	4 /20/2006
EP	APPARATUS AND METHODS FOR PLACING LEADS USING DIRECT VISUALIZATION	07800072.6	8 /9 /2007
US	APPARATUS AND METHODS FOR PLACING LEADS USING DIRECT VISUALIZATION	11/465,123	8 /16/2006
WO	APPARATUS AND METHODS FOR PLACING LEADS USING DIRECT VISUALIZATION	PCT/US2007/075644	8 /9 /2007
US	APPARATUS AND METHODS FOR CORONARY SINUS ACCESS	12/906,965	10/18/2010
US	STEERABLE CATHETERS AND METHODS FOR USING THEM	11/057,074	2 /11/2005
AU	VARIABLE STEERABLE CATHETERS AND METHODS FOR USING THEM	2005214300	2 /17/2005
CA	VARIABLE STEERABLE CATHETERS AND METHODS FOR USING THEM	2,559,781	2 /17/2005
US	VARIABLE STEERABLE CATHETERS AND METHODS FOR USING THEM	11/062,074	2 /17/2005

WO	VARIABLE STEERABLE CATHETERS AND METHODS FOR USING THEM	PCT/US2005/005425	2 /17/2005
US	COMPLEX SHAPED STEERABLE CATHETERS AND METHODS FOR MAKING AND USING THEM	11/382,026	5 /6 /2006
WO	COMPLEX SHAPED STEERABLE CATHETERS AND METHODS FOR MAKING AND USING THEM	PCT/US2006/017785	5 /6 /2006
US	TISSUE CLOSURE SYSTEM	13/029,010	2 /16/2011
US	VISUALIZATION AND TREATMENT VIA PERCUTANEOUS METHODS AND DEVICES	11/810,850	6 /7 /2007
JP	TISSUE VISUALIZATION AND MANIPULATION SYSTEM	2011-108812	1 /30/2006
WO	TISSUE VISUALIZATION AND MANIPULATION SYSTEM	PCT/US2006/003288	1 /30/2006
US	TISSUE VISUALIZATION AND MANIPULATION SYSTEM	12/947,198	11/16/2010
EP	TISSUE VISUALIZATION AND MANIPULATION SYSTEMS	07758716.0	3 /16/2007
WO	TISSUE VISUALIZATION AND MANIPULATION SYSTEMS	PCT/US2007/064195	3 /16/2007

US	TISSUE VISUALIZATION AND MANIPULATION SYSTEMS	12/558,423	9 /11/2009
EP	VISUALIZATION APPARATUS AND METHODS FOR TRANSSEPTAL ACCESS	07812146.4	6 /14/2007
JP	VISUALIZATION APPARATUS AND METHODS FOR TRANSSEPTAL ACCESS	2009-515646	6 /14/2007
US	VISUALIZATION APPARATUS FOR TRANSSEPTAL ACCESS	11/763,399	6 /14/2007
WO	VISUALIZATION APPARATUS AND METHODS FOR TRANSSEPTAL ACCESS	PCT/US2007/071226	6 /14/2007
EP	METHODS AND APPARATUS FOR TREATMENT OF ATRIAL FIBRILLATION	07799466.3	7 /10/2007
JP	METHODS AND APPARATUS FOR TREATMENT OF ATRIAL FIBRILLATION	2009-519641	7 /10/2007
US	METHODS AND APPARATUS FOR TREATMENT OF ATRIAL FIBRILLATION	11/775,819	7 /10/2007
WO	METHODS AND APPARATUS FOR TREATMENT OF ATRIAL FIBRILLATION	PCT/US2007/073184	7 /10/2007
US	DELIVERY OF BIOLOGICAL COMPOUNDS TO ISCHEMIC AND/OR INFARCTED TISSUE	13/365,914	2 /3 /2012

US	TISSUE VISUALIZATION DEVICE AND METHOD VARIATIONS	13/526,254	6 /18/2012
US	PRECISION CONTROL SYSTEMS FOR TISSUE VISUALIZATION AND MANIPULATION ASSEMBLIES	11/848,429	8 /31/2007
US	PRECISION CONTROL SYSTEMS FOR TISSUE VISUALIZATION AND MANIPULATION ASSEMBLIES	12/464,800	5 /12/2009
US	CORONARY SINUS CANNULATION	11/848,207	8 /30/2007
US	METHODS FOR PREVENTING TISSUE MIGRATION	11/877,386	10/23/2007
US	TISSUE IMAGING AND EXTRACTION SYSTEMS	12/947,246	11/16/2010
US	SYSTEMS AND METHODS FOR UNOBSTRUCTED VISUALIZATION AND ABLATION	11/959,158	12/18/2007
US	OFF-AXIS VISUALIZATION SYSTEMS	11/961,995	12/20/2007
US	FLOW REDUCTION HOOD SYSTEMS	13/742,718	1 /16/2013
US	TRANSMURAL SUBSURFACE INTERROGATION AND ABLATION	11/775,837	7 /10/2007
EP	COMPLEX SHAPE STEERABLE TISSUE VISUALIZATION AND MANIPULATION	08746822.9	4 /24/2008

	CATHETER		
JP	COMPLEX SHAPE STEERABLE TISSUE VISUALIZATION AND MANIPULATION CATHETER	2010-506502	4 /24/2008
US	COMPLEX SHAPE STEERABLE TISSUE VISUALIZATION AND MANIPULATION CATHETER	12/108,812	4 /24/2008
WO	COMPLEX SHAPE STEERABLE TISSUE VISUALIZATION AND MANIPULATION CATHETER	PCT/US2008/061471	4 /24/2008
US	COMPLEX SHAPE STEERABLE TISSUE VISUALIZATION AND MANIPULATION CATHETER	12/117,655	5 /8 /2008
EP	VISUAL ELECTRODE ABLATION SYSTEMS	08755266.7	5 /9 /2008
JP	VISUAL ELECTRODE ABLATION SYSTEMS	2010-507709	5 /9 /2008
US	VISUAL ELECTRODE ABLATION SYSTEMS	12/118,439	5 /9 /2008
WO	VISUAL ELECTRODE ABLATION SYSTEMS	PCT/US2008/063324	5 /9 /2008
US	VISUAL ELECTRODE ABLATION	12/465,903	5 /14/2009

	SYSTEMS		
US	LEFT ATRIAL APPENDAGE CLOSURE	11/828,281	7 /25/2007
US	TISSUE VISUALIZATION CATHETER WITH IMAGING SYSTEMS INTEGRATION	12/180,376	7 /25/2008
EP	ELECTROPHYSIOLOGY MAPPING AND VISUALIZATION SYSTEM	07841754.0	8 /31/2007
JP	ELECTROPHYSIOLOGY MAPPING AND VISUALIZATION SYSTEM	2009-526940	8 /31/2007
US	ELECTROPHYSIOLOGY MAPPING AND VISUALIZATION SYSTEM	11/848,532	8 /31/2007
WO	ELECTROPHYSIOLOGY MAPPING AND VISUALIZATION SYSTEM	PCT/US2007/077429	8 /31/2007
US	DIRECT VISUALIZATION BIPOLAR ABLATION SYSTEMS	12/201,811	8 /29/2008
US	VISUALIZATION AND ABLATION SYSTEM VARIATIONS	13/567,939	8 /6 /2012
US	TISSUE VISUALIZATION AND ABLATION SYSTEMS	12/268,381	11/10/2008
US	COMBINATION IMAGING AND TREATMENT ASSEMBLIES	12/323,281	11/25/2008
US	AXIAL VISUALIZATION	11/962,029	12/20/2007

	SYSTEMS		
US	STENT DELIVERY UNDER DIRECT VISUALIZATION	12/367,019	2 /6 /2009
US	APPARATUS AND METHODS FOR RAPID TISSUE CROSSING	12/483,119	6 /11/2009
US	CATHETER CONTROL SYSTEMS	12/499,011	7 /7 /2009
US	METHODS AND APPARATUS FOR EFFICIENT PURGING	12/499,681	7 /8 /2009
US	METHOD OF FORMING ELECTRODE PLACEMENT AND CONNECTION SYSTEMS	13/717,354	12/17/2012
US	IMAGE PROCESSING SYSTEMS	12/618,306	11/13/2009
US	IMAGING CATHETERS HAVING IRRIGATION	12/703,997	2 /11/2010
US	METHODS AND DEVICES FOR TREATMENT OF THE OSTIUM	12/755,244	4 /6 /2010
US	IN-VIVO VISUALIZATION SYSTEMS	12/778,878	5 /12/2010
US	INTEGRAL ELECTRODE PLACEMENT AND CONNECTION SYSTEMS	12/778,907	5 /12/2010
US	CATHETER ORIENTATION CONTROL SYSTEM MECHANISMS	12/967,288	12/14/2010
US	IMAGE STABILIZATION TECHNIQUES AND METHODS	13/025,981	2 /11/2011

US	APPARATUS AND METHODS FOR ABLATION EFFICACY	13/081,363	4 /6 /2011
US	TISSUE CONTRAST IMAGING SYSTEMS	13/278,820	10/21/2011
US	DEVICE FOR CORONARY SINUS ACCESS AND PROCESS FOR ACHIEVING SAME	60/384,262	5 /30/2002
US	TRANSSEPTAL & PULMONARY ABLATION	60/544,099	2 /11/2004
US	STEM CELL DELIVERY	60/544,103	2 /11/2004
US	APPARATUS FOR ADVANCING A GUIDEWIRE	60/545,865	2 /17/2004
US	ENHANCED MECHANICAL ADVANTAGE STEERABILITY MECHANISM	60/549,343	3 /1 /2004
US	BLOOD EGRESS FOR OPTIMAL VISUALIZATION	60/549,344	3 /1 /2004
US	DEVICES AND METHODS FOR IDENTIFYING, LOCALIZING, AND CANNULATING ANATOMICAL FEATURES	60/673,184	4 /20/2005
US	METHODS AND DEVICES FOR IMAGING AND ACCESS	60/678,517	5 /6 /2005
US	DEVICE DELIVERY UNDER DIRECT VISUALIZATION	60/708,747	8 /16/2005
US	COMPLEXLY SHAPED STEERABLE CATHETER	60/752,763	12/20/2005
US	TISSUE CLOSURE SYSTEM	60/737,521	11/16/2005

US	TISSUE VISUALIZATION SYSTEM	60/649,246	2 /2 /2005
US	TISSUE VISUALIZATION AND MANIPULATION SYSTEM	60/783,494	3 /17/2006
US	VISUALIZATION APPARATUS FOR TRANSSEPTAL ACCESS	60/804,801	6 /14/2006
US	METHODS AND APPARATUS FOR TREATING ATRIAL FIBRILLATION I	60/806,923	7 /10/2006
US	METHODS AND APPARATUS FOR TREATING ATRIAL FIBRILLATION II	60/806,924	7 /10/2006
US	METHODS AND APPARATUS FOR TREATING ATRIAL FIBRILLATION III	60/806,926	7 /10/2006
US	DELIVERY OF BIOLOGICAL COMPOUNDS TO ISCHEMIC AND/OR INFARCTED TISSUE	60/821,117	8 /1 /2006
US	TISSUE VISUALIZATION DEVICE AND METHOD VARIATIONS	60/824,418	9 /1 /2006
US	PRECISION CONTROL SYSTEMS FOR TISSUE VISUALIZATION AND MANIPULATION ASSEMBLIES	60/824,421	9 /1 /2006
US	CORONARY SINUS CANNULATION	60/824,423	9 /1 /2006
US	METHODS AND APPARATUS FOR PREVENTING TISSUE MIGRATION	60/862,575	10/23/2006

US	SYSTEMS AND METHODS FOR UNOBSTRUCTED VISUALIZATION AND ABLATION	60/870,598	12/18/2006
US	TISSUE VISUALIZATION EMBODIMENTS I	60/871,415	12/21/2006
US	TISSUE VISUALIZATION EMBODIMENTS II	60/871,424	12/21/2006
US	FLOW REDUCTION HOOD SYSTEMS	60/888,242	2 /5 /2007
US	TRANSMURAL SUBSURFACE INTERROGATION AND ABLATION	60/891,472	2 /23/2007
US	COMPLEX SHAPE STEERABLE TISSUE VISUALIZATION AND MANIPULATION CATHETER	60/914,648	4 /27/2007
US	COMPLEX SHAPE STEERABLE CATHETER SYSTEMS	60/916,640	5 /8 /2007
US	VIRTUAL ELECTRODE ABLATION SYSTEMS	60/917,487	5 /11/2007
US	LEFT ATRIAL APPENDAGE CLOSURE	60/821,113	8 /1 /2006
US	TISSUE VISUALIZATION CATHETER WITH IMAGING SYSTEMS INTEGRATION	60/952,476	7 /27/2007
US	DIRECT VISUALIZATION BIPOLAR ABLATION SYSTEMS	60/969,511	8 /31/2007
US	VISUALIZATION AND ABLATION SYSTEM	60/971,462	9 /11/2007

	VARIATIONS		
US	TISSUE VISUALIZATION AND ABLATION SYSTEM	60/987,334	11/12/2007
US	DIGITAL IMAGING AND TREATMENT SYSTEM	60/990,231	11/26/2007
US	STENT DELIVERY UNDER DIRECT VISUALIZATION	61/026,795	2 /7 /2008
US	APPARATUS AND METHODS FOR RAPID TISSUE CROSSING	61/076,514	6 /27/2008
US	CATHETER CONTROL SYSTEMS	61/078,746	7 /7 /2008
US	METHODS AND APPARATUS FOR EFFICIENT PURGING	61/079,414	7 /9 /2008
US	ELECTRODE PLACEMENT AND CONNECTION SYSTEMS	61/104,650	10/10/2008
US	IMAGE PROCESSING SYSTEMS	61/114,834	11/14/2008
US	IMAGING CATHETERS HAVING IRRIGATION	61/151,764	2 /11/2009
US	METHODS AND DEVICES FOR TREATMENT OF THE OSTIUM	61/167,016	4 /6 /2009
US	IN-VIVO VISUALIZATION SYSTEMS	61/177,618	5 /12/2009
US	ENDOSCOPE WITH COLLAPSIBLE HOOD WITH INTEGRAL ELECTRODES	61/177,619	5 /12/2009
US	CATHETER ORIENTATION	61/286,283	12/14/2009

	CONTROL SYSTEMS		
US	CATHETER ORIENTATION CONTROL SYSTEM MECHANISMS	61/297,462	1 /22/2010
US	IMAGE STABILIZATION TECHNIQUES AND METHODS	61/304,235	2 /12/2010
US	APPARATUS AND METHODS FOR ABLATION EFFICACY	61/321,471	4 /6 /2010
US	NEAR INFRARED IMAGING SYSTEMS	61/384,192	9 /17/2010
US	TISSUE CONTRAST IMAGING SYSTEMS	61/406,065	10/22/2010
US	ULTRASOUND GUIDANCE AND FEEDBACK FOR ABLATION UNDER DIRECT VISUALIZATION	61/645,860	5 /11/2012
US	APPARATUS AND METHOD FOR DELIVERY AND MONITORING OF ABLATION THERAPY	61/731,926	11/30/2012