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PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4499206

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
LUNA INNOVATIONS INCORPORATED	03/15/2017

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:	14119797	

CORRESPONDENCE DATA

Fax Number: (703)816-4100

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: 703-816-4000

Email: krm@nixonvan.com

Correspondent Name: JOHN R. LASTOVA

Address Line 1: 901 NORTH GLEBE ROAD, 11TH FLOOR

Address Line 4: ARLINGTON, VIRGINIA 22203

ATTORNEY DOCKET NUMBER:	JRL-6094-30
NAME OF SUBMITTER:	JOHN R. LASTOVA
SIGNATURE:	/John R. Lastova/
DATE SIGNED:	07/12/2017

Total Attachments: 7

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CONFIRMATORY ASSIGNMENT AGREEMENT

This Confirmatory Assignment Agreement (the "Agreement") is made March 15, 2017, by and between Intuitive Surgical Operations, Inc., a corporation organized and existing under the laws of the State of Delaware, U.S.A. and having a place of business at 1020 Kifer Road, Sunnyvale, California 94086, ("Intuitive"), and Luna Innovations Incorporated, a corporation organized and existing under the laws of the State of Delaware, U.S.A. and having a place of business in Roanoke, Virginia ("Luna").

The Parties confirm that, under the Intellectual Property Assignment entered into by the Parties as of January 17, 2014 (the "IP Assignment", attached here and made a part of this Agreement) Luna had assigned, and agrees to assign, to Intuitive all rights that the inventors of the Transferred Intellectual Property (as defined in the IP Assignment) has assigned to Luna for the Transferred Intellectual Property. To the extent that Luna holds any rights to the Transferred Intellectual Property, Luna hereby assigns to Intuitive all rights it holds in the Transferred Intellectual Property.

For: Luna Innovations Incorporated

Name:

Title: Chief Strategy Officer

For: Intuitive Surgical Operations, Inc.

By:

Name: Frank Nguyen

Title: VP of IP and Licensing

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THIS INTELLECTUAL PROPERTY ASSIGNMENT ("Assignment") is made effective as of January [7], 2014 (the "Effective Date"), by and between Luna Innovations Incorporated, a Delaware corporation ("Seller"), and Intuitive Surgical Operations, Inc., a Delaware corporation having its principal place of business at 1266 Kifer Road, Sunnyvale, California 94086 ("Purchaser") (each a "Party" and collectively, the "Parties").

BACKGROUND

- A. This Assignment is entered into by Seller and Purchaser pursuant to that certain Asset Purchase Agreement (the "Purchase Agreement"), dated as of January 17, 2014, by and between Seller and Purchaser and Intuitive Surgical International, Ltd, a Cayman Islands company an indirect and wholly-owned subsidiary of Purchaser ("ISIL"), whereby Seller has agreed to sell and Purchaser has agreed to purchase certain assets. All capitalized terms used in this Assignment and not defined herein shall have the respective meanings ascribed to such terms in the Purchase Agreement;
- B. Subject to the Purchase Agreement, Seller wishes to assign to Purchaser its rights in all FOSSL Technology IP (including the IP listed on Schedule 1.1(w)) (collectively, the "Transferred Intellectual Property") under the terms and conditions hereinafter set forth.
- NOW, THEREFORE, Seller and Purchaser, in consideration of the mutual promises contained in this Intellectual Property Assignment and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, and intending to be legally bound, agree as follows:
- Assignment of Transferred Intellectual Property. Subject to the Hansen Agreements 1. and the Philips Agreements, Seller hereby sells, transfers, conveys, assigns and sets over to Purchaser all of Seller's rights (including without limitation, intellectual property rights), title, and interests in and to the Transferred Intellectual Property, and any and all goodwill in connection therewith. This Assignment includes all of Seller's right, title and interest in, to and under the Transferred Assets that are patents and patent applications and all divisions, renewals, continuations and continuations-in-part thereof, and all patents of the United States which may be granted thereon and all reissues and extensions thereof (including, without limitation, Seller's rights to the proceeds thereof and Seller's rights to sue for past, present and future infringements), and all patent applications which may hereafter be filed for said patents and patent applications in any country or countries foreign to the United States, and all patents which may be granted for said patents and patent applications in any country or countries foreign to the United States hereby authorized (collectively, the "Transferred Patents and Patent Applications"), and requests the Commissioner of Patents of the United States, and any Official of any country or countries foreign to the United States, whose duty it is to issue patents on applications as aforesaid, to record Purchaser as the owner of such Transferred Patents and Patent Applications and to issue all Patents for said Transferred Patents and Patent Applications to be in the name of the said Purchaser, as Purchaser of Seller's rights in the Transferred Patents and Patent Applications, in accordance with the terms of this Assignment. This Assignment includes the right to claim priority based on the filing date of the Transferred Patents and Patent Applications under the International Convention for the Protection of Industrial Property, the

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Patent Cooperation Treaty, the European Patent Conventions, and all other treaties of like purposes. The transferred rights include the right to collect any royalties, license fees, or other amounts related to the Transferred Intellectual Property owing from third parties, as well as the right to bring infringement or similar actions that may have accrued prior to this Assignment, subject to the third party rights in the Transferred Intellectual Property described in the Purchase Agreement, and to any licenses granted by Purchaser to Seller under the Transferred Intellectual Property pursuant to a license agreement executed by Seller and Purchaser concurrently with the Purchase Agreement (the "2014 License Agreement").

2. <u>Miscellaneous Provisions.</u>

- 2.1 <u>Recordation</u>. Seller authorizes the U.S. Patent and Trademark Office, the U.S. Copyright Office and any Official of any country or countries foreign to the United States whose duty it is to receive or register copyrights, patents, trademarks or applications therefore, to record Purchaser as the owner of Seller's rights in the Transferred Intellectual Property and to issue all registrations for said Transferred Intellectual Property, to be in the name of Purchaser, as Purchaser of Seller's rights in the Transferred Intellectual Property, in accordance with the terms of this Assignment and subject to any licenses granted by Purchaser to Seller under the Transferred Intellectual Property pursuant the 2014 License Agreement.
- 2.2 <u>Severability</u>. Should any term or provision of this Assignment be held to any extent unenforceable, invalid, or prohibited under law, then such provision shall be deemed restated to reflect the original intention of the Parties as nearly as possible in accordance with applicable law and the remainder of this Assignment. The application of such term or provision to persons, property, or circumstances other than those as to which it is invalid, unenforceable, or prohibited, shall not be affected by such invalidity, unenforceability, or prohibition, and each term and provision of this Assignment shall be valid and enforceable to the fullest extent permitted by law.
- 2.3 <u>Interpretation</u>. This Assignment has been freely negotiated and entered into by each Party. A Party's role in drafting this Assignment shall not be a basis for construing this Assignment in any manner against such Party.
- 2.4 <u>Headings</u>. Section headings are for reference only and shall not affect the interpretation of this Assignment.
- 2.5 <u>Successors in Interest</u>. This Assignment and all of the provisions in this Assignment shall be binding upon and inure to the benefit of the successors in interest and assigns of the Parties.
- 2.6 <u>Applicable Law</u>. This Assignment, each transaction entered into under this Assignment, and all matters arising out of or related to this Assignment shall be in all respects governed by, and construed and enforced in accordance with, the laws of the State of Illinois without giving effect to its rules relating to conflict of laws.

{Signature Page Follows}

IN WITNESS WHEREOF, Purchaser accepts this Assignment and Seller has caused this Assignment to be executed and delivered on its behalf as of the Effective Date.

LUNA INNOVATIONS INCORPORATED ("SELLER")

Name: Mo

Title:

INTUITIVE SURGICAL OPERATIONS, INC. ("PURCHASER")

Name:

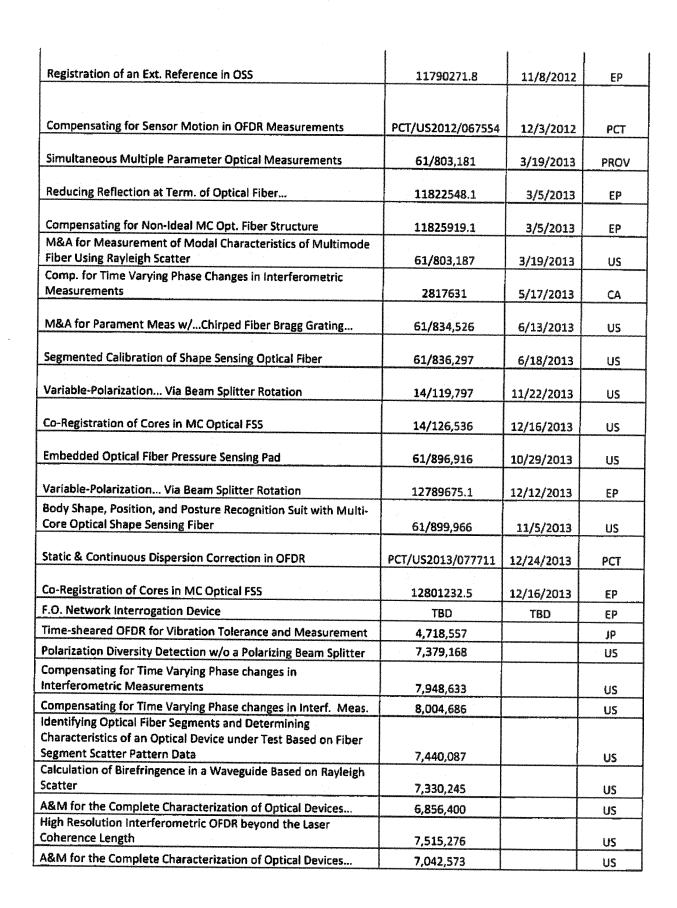
Title:

SCHEDULE 1.1(w) FOSSL Patents and Patent Applications

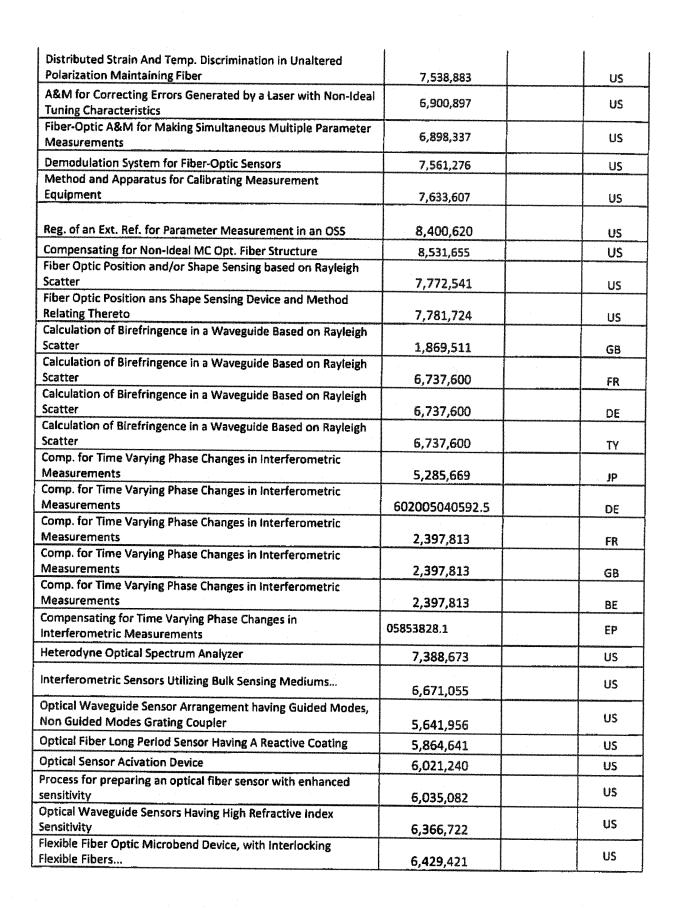
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Title	Appl. No./Patent No.	Appl. Date	C
	App. No./ruten No.	Appr. Date	Country
Time-sheared OFDR for Vibration Tolerance and Measurement	2,590,790	12/13/2005	Canada
High Resolution Interferometric OFDR Beyond the Laser Coherence Length	7810547.5	7/19/2007	_ cn
Distributed Strain and Temperature Discrimination in	7610347.3	7/18/2007	EP
Polarization Maintaining Fiber	7795875.9	6/7/2007	<u>EP</u>
High Accuracy Position Sensing w/ Multi-Core Fiber	12/874,901	9/2/2010	US
High Precision Wavelength Measof a Tunable Laser	12/735,813	8/19/2010	US
High Precision Wavelength Measof a Tunable Laser	9712064.6	8/20/2010	EP
High Precision Wavelength Measof a Tunable Laser	2010-547792	8/20/2010	JPO
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Circular Fiber Rosettes for Strain Sensing	13/081,056	4/6/2011	US
Interferometric Measurement with X-talk Supp.	13/113,761	5/31/2011	US
Reducing Reflection at Term. of Optical Fiber	13/222,577	8/31/2011	US
High Accuracy Position Sensing w/ Multi-Core Fiber	10817557.1	4/12/2012	EP
High Accuracy Position Sensing w/ Multi-Core Fiber	CN 201080041709.6	3/19/2012	China
High Accuracy Position Sensing w/ Multi-Core Fiber	2224/DELNP/2012	3/14/2012	India
High Accuracy Position Sensing w/ Multi-Core Fiber	2012115444	9/16/2010	Russia
High Accuracy Position Sensing w/ Multi-Core Fiber	BR112012008347.3	3/19/2012	Brazil
High Accuracy Position Sensing w/ Multi-Core Fiber	2012-529743	3/13/2012	JPO
High Accuracy Position Sensing w/ Multi-Core Fiber	W00201200968	9/16/2010	Indonesia
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Circular Fiber Rosettes for Strain Sensing	11766631.3	10/16/2012	<u>EP</u>
Interferometric Measurement with X-talk Supp.	11790200.7	11/7/2012	<u>EP</u>

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