

## PATENT ASSIGNMENT COVER SHEET

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<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT	
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT	
<b>CONVEYING PARTY DATA</b>		
	<b>Name</b>	<b>Execution Date</b>
	MARK E. FROGGATT	09/15/2010
	JUSTIN W. KLEIN	09/15/2010
	DAWN K. GIFFORD	09/16/2010
	STEPHEN TOD KREGER	09/15/2010
<b>RECEIVING PARTY DATA</b>		
<b>Name:</b>	LUNA INNOVATIONS INCORPORATED	
<b>Street Address:</b>	1 RIVERSIDE CIRCLE	
<b>Internal Address:</b>	SUITE 400	
<b>City:</b>	ROANOKE	
<b>State/Country:</b>	VIRGINIA	
<b>Postal Code:</b>	24016	
<b>PROPERTY NUMBERS Total: 1</b>		
<b>Property Type</b>	<b>Number</b>	
<b>Application Number:</b>	16908414	
<b>CORRESPONDENCE DATA</b>		
<b>Fax Number:</b>		
<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>		
<b>Email:</b>	request@slwip.com	
<b>Correspondent Name:</b>	INTUITIVE SURGICAL OPERATIONS, INC.	
<b>Address Line 1:</b>	1020 KIFER ROAD	
<b>Address Line 4:</b>	SUNNYVALE, CALIFORNIA 94086	
<b>ATTORNEY DOCKET NUMBER:</b>	P01061-US-03-CON2	
<b>NAME OF SUBMITTER:</b>	JONATHAN FERGUSON	
<b>SIGNATURE:</b>	/JONATHAN FERGUSON/	
<b>DATE SIGNED:</b>	06/22/2020	
<b>Total Attachments: 2</b>		
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source=3948-178US6_ASSIGNMENT_1OF2_FILED_2020-06-22#page2.tif		

**ASSIGNMENT FOR PATENT APPLICATION**  
**(All Rights)**

WHEREAS, Mark E. FROGGATT, Justin W. KLEIN, Dawn K. GIFFORD and Stephen Tod KREGER, , (hereinafter ASSIGNORS) of 1751 Brush Mountain Creek Rd., Blacksburg, Virginia 24060; 1747 Donlee Dr., Blacksburg, Virginia 24060; 2175 Craig Creek Rd., Blacksburg, Virginia 24060 and 404 Alleghany Street, Blacksburg, Virginia 24060, respectively, have invented a certain improvement in OPTICAL POSITION AND/OR SHAPE SENSING for which a so-entitled application for Letters Patent of the United States was filed in the United States Patent and Trademark Office on September 2, 2010 under Serial No. to be assigned;

WHEREAS, Luna Innovations Incorporated (hereinafter ASSIGNEE), a corporation of the State of Virginia, having an office and place of business at 1 Riverside Circle, Suite 400, Roanoke, Virginia 24016 is desirous of acquiring an interest therein;

NOW, THEREFORE, in consideration of Ten Dollars (\$10.00) and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the said ASSIGNORS by these presents hereby sell, assign, and transfer unto the said ASSIGNEE, its successors, assigns, and legal representatives, ASSIGNORS' entire right, title and interest in the United States of America and all foreign countries, in and to the invention as described in the aforesaid application, and to the said application and to all subsequent applications based thereon including any and all continuations, divisions, reissues, and substitutes of said application, and all resulting patents, together with the right of priority under the International Convention for the Protection of Industrial Property, Inter-American Convention Relating to Patents, Designs and Industrial Models, and any other international agreements to which the United States of America adheres; and the ASSIGNORS hereby authorize and request the Commissioner of Patents and Trademarks to issue said Letters Patent to ASSIGNEE, for its interest as ASSIGNEE, its successors, assigns, and legal representatives. It is understood and agreed that ASSIGNEE'S attorneys Nixon & Vanderhye P.C. have represented only ASSIGNEE and will continue to represent only ASSIGNEE with respect to this invention;

ASSIGNORS hereby agree to transfer a like interest upon request of said ASSIGNEE, its successors, assigns, and legal representatives, and without further remuneration, in and to any improvements, and applications for patents based thereon, growing out of or related to the said invention;

ASSIGNORS hereby agree to execute any papers by ASSIGNEE, its successors, assigns, and legal representatives, deemed essential to ASSIGNEE'S full protection and title in and to the invention hereby transferred; and

ASSIGNORS hereby agree, upon request of ASSIGNEE, and without further remuneration, to execute any and all papers desired by ASSIGNEE, for the filing and granting of foreign applications and the perfecting of title thereto in ASSIGNEE.

AGREED and executed as noted below:

9/15/2010  
Date

Witnessed by:

Paul F. Wysocki

Name: Paul F. Wysocki

Mark E. Froggatt  
Mark E. FROGGATT

9/15/10  
Date:

9/15/2010  
Date

Witnessed by:

Paul F. Wysocki

Name: Paul F. Wysocki

Justin W. Klein  
Justin W. KLEIN

9/15/10  
Date:

9/16/2010  
Date

Witnessed by:

Paul F. Wysocki

Name: Paul F. Wysocki

Dawn K. Gifford  
Dawn K. GIFFORD

9/16/10  
Date:

15 Sept 2010  
Date

Witnessed by:

Paul F. Wysocki

Name: Paul F. Wysocki

Stephen Tod Kregar  
Stephen Tod KREGER

9/15/10  
Date:

We hereby authorize and request ASSIGNEE'S attorneys, Nixon & Vanderhye P.C., of 901 North Glebe Road, 11th Floor, Arlington, Virginia 22203-1808, to insert here the serial number of said application when known.