

PATENT ASSIGNMENT COVER SHEET

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 Stylesheet Version v1.2

EPAS ID: PAT5489637

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
RANDALL L. SCHLESINGER	10/16/2015
TIMOTHY D. SOPER	10/19/2015
ANOOB B. KOWSHIK	10/22/2015
STEPHEN J. BLUMENKRANZ	10/19/2015
VINCENT DUINDAM	10/19/2015
CHRISTOPHER R. CARLSON	10/16/2015
RECEIVING PARTY DATA	
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Street Address:	1020 KIFER ROAD
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State/Country:	CALIFORNIA
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PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	15518385
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ATTORNEY DOCKET NUMBER:	ISRG05850/US
NAME OF SUBMITTER:	EFFEI DAH
SIGNATURE:	/Effe Dah/
DATE SIGNED:	04/24/2019

Total Attachments: 5

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PATENT

REEL: 048979 FRAME: 0844

ASSIGNMENT OF INVENTION AND PATENT RIGHTS

WHEREAS I/we:

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VINCENT DUINDAM
601 Connecticut St.
San Francisco, CA 94107
United States of America

CHRISTOPHER R. CARLSON
1821 Hillman Avenue
Belmont, CA 94002
United States of America

(the "Assignor(s)") have invented one or more inventions described in one or more patent applications entitled (the "Invention"):

ISRG05850/PCT

SYSTEMS AND METHODS FOR REDUCING MEASUREMENT ERROR USING
OPTICAL FIBER SHAPE SENSORS

The application(s) having been filed as Application
Number: PCT/US15/055879, filed on: 16-Oct-2015

Now for good and valuable consideration, receipt and
sufficiency of which is hereby acknowledged, I/we hereby
sell, assign, and transfer to (the "Assignee"),:

~~Intuitive Surgical Operations, Inc.~~

a Delaware corporation having a place of business at 1020
Kifer Road, Sunnyvale, California 94086 and the Assignee's
successor(s), assign(s), and nominee(s)-

(i) the entire right, title, and interest throughout the
world in the Invention(s); and

(ii) the entire right, title, and interest throughout the
~~world in all patent applications and patents of every~~
country and region (including international applications
made under the Patent Cooperation Treaty) for the
Invention(s), including continuations, divisions,
reissues, and extensions thereof, and all rights of
priority resulting from the filing of these applications
(the "Patent Rights").

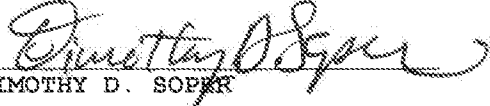
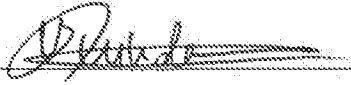
I/we authorize the Assignee and the Assignee's
successor(s), assign(s), and nominee(s) to apply for
patents of every country and region for the Invention(s)
and to claim all rights of priority without further
authorization from me/us.

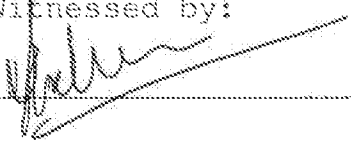
I/we agree to execute all papers useful in connection with
the Patent Rights, and generally to do everything possible
to aid the Assignee, and the Assignee's successor(s),
assign(s), and nominee(s), at their reasonable request and
reasonable expense, in obtaining and enforcing the Patent
Rights in all countries and regions.

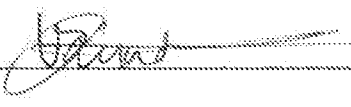
I/we request that all patents granted for the Invention(s)
be issued to the Assignee or to the Assignee's
successor(s), assign(s), and nominee(s) as the case may be.

ISRG05850/PCT

Signature:  RANDALL L. SCHLESINGER Date: 10-16-2015	Witnessed by:  CORA TSE Print Name
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Signature:  TIMOTHY D. SOPER Date: 10/19/2015	Witnessed by:  VINCENT DWINDAM Print Name
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Signature:  ANOOP B. KOWSIK Date: 10/22/15	Witnessed by:  10-22-15 Print Name
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Signature:  STEPHEN J. BLUMENKRANZ Date: 10-19-2015	Witnessed by:  VINCENT DWINDAM Print Name
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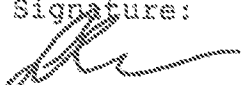
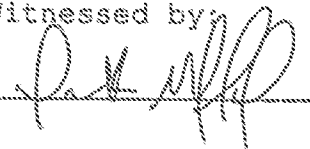
Signature: ERIC E. SANBORN Date	Witnessed by: Print Name
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Signature:	Witnessed by:
<u>RANDALL L. SCHLESINGER</u>	<u></u>
Date	Print Name

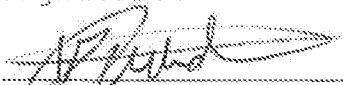
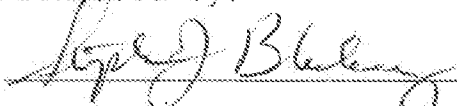
Signature:	Witnessed by:
<u>TIMOTHY D. SOPER</u>	<u></u>
Date	Print Name

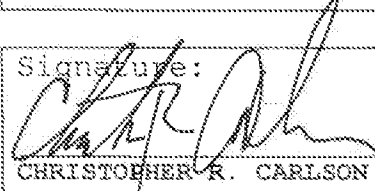
Signature:	Witnessed by:
<u>ANCOF B. KOWSHIK</u>	<u></u>
Date	Print Name

Signature:	Witnessed by:
<u>STEPHEN J. BLUMENKRANZ</u>	<u></u>
Date	Print Name

Signature:	Witnessed by:
<u></u>	<u></u>
ERIC E. SANBORN	
<u>10/19/15</u>	<u>Dana K. Gifford</u>
Date	Print Name

ISRG05850/PCT

Signature:  VINCENT DUINDAM Date 10/19/2015	Witnessed by:  Stephen J. Blumenkranz Print Name
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Signature:  CHRISTOPHER R. CARLSON Date 16-Oct-2015	Witnessed by:  Randy Schlesinger Print Name
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