### 505465131 05/08/2019

# PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5511934

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
PRASHANT CHOPRA	12/31/2015
VINCENT DUINDAM	12/31/2015
TAO ZHAO	12/31/2015
LEI XU	01/07/2016

### **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:	16405438

### **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:	ISRG04910C1/US
NAME OF SUBMITTER:	EFFEI DAH
SIGNATURE:	/Effei Dah/
DATE SIGNED:	05/08/2019

## **Total Attachments: 4**

source=ISRG04910C1US\_70228\_180US02\_Executed\_Assignment#page1.tif source=ISRG04910C1US\_70228\_180US02\_Executed\_Assignment#page2.tif

PATENT 505465131 REEL: 049111 FRAME: 0577

 $source=ISRG04910C1US\_70228\_180US02\_Executed\_Assignment\#page3.tif\\ source=ISRG04910C1US\_70228\_180US02\_Executed\_Assignment\#page4.tif\\$ 

PATENT REEL: 049111 FRAME: 0578

#### ASSIGNMENT OF INVENTION AND PATENT RIGHTS

WHEREAS I/we:

Prashant CHOPRA

711 Foster City Bivd:

Foster City, California 94404

United States of America

Vincent DUINDAM 601 Connecticut St. San Francisco, California 94107 United States of America

Tao ZHAO 1022 Sumac Dr. Sunnyvale, California 94086 United States of America

Lei XU 236 Travers Circle Amherst, New York 14228 United States of America

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

SYSTEMS AND METHODS FOR NON-RIGID DEFORMATION OF TISSUE FOR VIRTUAL NAVIGATION OF INTERVENTIONAL TOOLS

the application(s) having been filed as Application Number: PCT/US2015/014226, filed on: 03-Feb-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

ISRG04910/PCT

PATENT REEL: 049111 FRAME: 0579 (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.		
Signature:	Witnessed by:	
Jan-	Radhika Digitally signed by Rodhika Varma DN: cn= Radhika Varma, ci, ou, emislersdrika varma dumalicam.	
Prashant CHOPRA	Varma Date: 2015.12.31 20:13:25 -08:00	
12/31/2015		
**	Radhika Varma	
Date	Print Name	
Signature:	Witnessed by:	
Vincent DUINDAM		
Date		
Parc	Print Name	
Signature:	Witnessed by:	
Tao ZHAO		
Date	**************************************	
ومس وابار که یک	Print Name	

ISRG04910/PCT

(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.		
Signature:	Witnessed by:	
Preshant CHOPRA		
Date	Print Name	
Signature:	Witnessed by:	
Vinceni DUINDAM	25 ABaper 2	
12   31   20   x Date	Timothy D. Syre/ Print Name	
,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
Signature: Tao ZHAO	Witnessed by:   January   Table   T	
Date 12/3//2015	V& COVT Du //VOAP1 Print Name	

ISRG04910/PCT

Signature:	Witnessed by:
4-2	Xuhui Jin
Lei XU	
21/07/20/6	Xuhui Jin
Date	Print Name
	4 5 585

ISRG04910/PCT

PATENT REEL: 049111 FRAME: 0582

RECORDED: 05/08/2019