

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT3859195

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT	
<b>NATURE OF CONVEYANCE:</b>	SECURITY INTEREST	
<b>CONVEYING PARTY DATA</b>		
	<b>Name</b>	<b>Execution Date</b>
	ASTUTE MEDICAL, INC.	05/02/2016
<b>RECEIVING PARTY DATA</b>		
<b>Name:</b>	CAPITAL ROYALTY PARTNERS II L.P.	
<b>Street Address:</b>	1000 MAIN STREET, SUITE 2500	
<b>City:</b>	HOUSTON	
<b>State/Country:</b>	TEXAS	
<b>Postal Code:</b>	77002	
<b>Name:</b>	CAPITAL ROYALTY PARTNERS II - PARALLEL FUND "A" L.P.	
<b>Street Address:</b>	1000 MAIN STREET, SUITE 2500	
<b>City:</b>	HOUSTON	
<b>State/Country:</b>	TEXAS	
<b>Postal Code:</b>	77002	
<b>Name:</b>	PARALLEL INVESTMENT OPPORTUNITIES PARTNERS II L.P.	
<b>Street Address:</b>	1000 MAIN STREET, SUITE 2500	
<b>City:</b>	HOUSTON	
<b>State/Country:</b>	TEXAS	
<b>Postal Code:</b>	77002	
<b>PROPERTY NUMBERS Total: 16</b>		
<b>Property Type</b>	<b>Number</b>	
<b>Application Number:</b>	15023357	
<b>Application Number:</b>	62181055	
<b>Application Number:</b>	14770451	
<b>Application Number:</b>	14910661	
<b>PCT Number:</b>	US2016026828	
<b>Application Number:</b>	15137982	
<b>Application Number:</b>	14964410	
<b>Application Number:</b>	14987569	
<b>Application Number:</b>	14896270	
<b>Application Number:</b>	14761591	

PATENT

Property Type	Number
Application Number:	14764139
Application Number:	14770442
PCT Number:	US2015056462
PCT Number:	US2015060204
PCT Number:	US2015066864
PCT Number:	US2016017546

#### CORRESPONDENCE DATA

Fax Number: (415)693-2222

*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: 4156932000

Email: crhem@cooley.com

Correspondent Name: COOLEY LLP

Address Line 1: 101 CALIFORNIA STREET, 5TH FLOOR

Address Line 4: SAN FRANCISCO, CALIFORNIA 94111

ATTORNEY DOCKET NUMBER: 321831-101 CRG ASTUTE

NAME OF SUBMITTER: C. RHEM

SIGNATURE: /CR/

DATE SIGNED: 05/04/2016

#### Total Attachments: 4

source=CRG - Astute Executed - Patent Security Agreement (May 2, 2016)#page1.tif

source=CRG - Astute Executed - Patent Security Agreement (May 2, 2016)#page2.tif

source=CRG - Astute Executed - Patent Security Agreement (May 2, 2016)#page3.tif

source=CRG - Astute Executed - Patent Security Agreement (May 2, 2016)#page4.tif

## SHORT-FORM PATENT SECURITY AGREEMENT

WHEREAS, ASTUTE MEDICAL, INC. (the “Grantor”) has applied for letters patent and has been granted letters patents in the United States Patent and Trademark Office, and is the owner of the patent applications and patents listed in the attached Schedule of Patents and Patent Applications associated therewith;

WHEREAS, the Grantor entered into the Security Agreement dated as of March 17, 2014 (as modified from time to time, the “Security Agreement”), in which the Grantor has granted certain interests in favor of CAPITAL ROYALTY PARTNERS II L.P., CAPITAL ROYALTY PARTNERS II – PARALLEL FUND “A” L.P., and PARALLEL INVESTMENT OPPORTUNITIES PARTNERS II L.P. (together, with their successors and assigns, the “Secured Parties”); and

WHEREAS, pursuant to the Security Agreement, the Grantor has agreed with the Secured Parties to execute this Short-Form Patent Security Agreement;

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the Grantor hereby grants to the Secured Parties, to the extent provided in the Security Agreement (the terms and conditions of which are hereby incorporated herein), a security interest in all of its right, title and interest in, to and under all the patents and patent applications whether now owned or at any time hereafter acquired, of the Grantor issued by, or for which applications have been filed with, the United States Patent and Trademark Office, including the patents and applications on the attached Schedule of Patents and Patent Applications, and all related patents and applications thereto, including all reissuances, continuations, continuations-in-part, revisions, extensions, re-examinations thereof, any patents and patent applications claiming priority to said patents and patent applications or from which said patents and patent applications claim priority, and pending applications associated therewith, as collateral security for the prompt and complete payment and performance when due of all the Secured Obligations (as defined in the Security Agreement). Notwithstanding the foregoing, in the event of any conflict between this Short-Form Patent Security Agreement and the Security Agreement, the Security Agreement shall control.

Date: May 2, 2016

IN WITNESS WHEREOF, the party hereto has caused this Short-Form Patent Security Agreement to be duly executed and delivered as of the day and year first above written.

ASTUTE MEDICAL, INC.

By: Todd Myers  
Name: Todd Myers  
Title: CFO

[Signature Page to Short-Form Patent Security Agreement]

SCHEDULE OF  
REGISTERED PATENTS

**PATENTS AND PATENT APPLICATIONS:**

TITLE	MATTER TYPE	COUNTRY	FILING DATE	SERIAL NUMBER	PATENT NUMBER	GRANT DATE	STATUS	Notes
METHODS AND COMPOSITIONS FOR DIAGNOSIS AND PROGNOSIS OF APPENDICITIS AND DIFFERENTIATION OF CAUSES OF ABDOMINAL PAIN	Utility - NSPCT	United States of America	Sep 19, 2014	15023357			Pending	None.
METHODS AND COMPOSITIONS FOR DIAGNOSIS AND PROGNOSIS OF APPENDICITIS AND DIFFERENTIATION OF CAUSES OF ABDOMINAL PAIN	Prov - ORG	United States of America	Jun 17, 2015	62181055			Pending	None.
LATERAL FLOW ASSAY WITH TEST STRIP RETAINER	Utility - NSPCT	United States of America	Feb 25, 2014	14770451			Pending	None.
ASSAYS FOR TIMP2 HAVING IMPROVED PERFORMANCE IN BIOLOGICAL SAMPLES	Utility - NSPCT	United States of America	Aug 7, 2014	14910661			Pending	None.
METHODS AND COMPOSITIONS FOR DIAGNOSIS AND PROGNOSIS OF RENAL INJURY AND RENAL FAILURE	Utility - ORG	PCT	Apr 8, 2016	PCT/US2016026828			Pending	None.
METHODS FOR DIAGNOSIS AND PROGNOSIS OF RENAL INJURY AND RENAL FAILURE USING TREFOIL FACTOR 3	Utility - CON	United States of America	Apr 25, 2016	15137982			Pending	None.
METHODS AND COMPOSITIONS FOR DIAGNOSIS AND PROGNOSIS OF RENAL INJURY AND RENAL FAILURE	Utility - DIV	United States of America	Dec 9, 2015	14964410			Pending	None.
METHODS AND COMPOSITIONS FOR DIAGNOSIS AND PROGNOSIS OF RENAL INJURY AND RENAL FAILURE	Utility - CON	United States of America	Jan 4, 2016	14987569			Pending	None.
METHODS AND COMPOSITIONS FOR DIAGNOSIS AND PROGNOSIS OF RENAL INJURY AND RENAL FAILURE	Utility - NSPCT	United States of America	Jun 5, 2014	14896270			Pending	(1)

<b>TITLE</b>	<b>MATTER TYPE</b>	<b>COUNTRY</b>	<b>FILING DATE</b>	<b>SERIAL NUMBER</b>	<b>PATENT NUMBER</b>	<b>GRANT DATE</b>	<b>STATUS</b>	<b>Notes</b>
METHODS AND COMPOSITIONS FOR DIAGNOSIS AND PROGNOSIS OF RENAL INJURY AND RENAL FAILURE	Utility - NSPCT	United States of America	Jan 16, 2014	14761591			Allowed	None.
METHODS AND COMPOSITIONS FOR DIAGNOSIS AND PROGNOSIS OF RENAL INJURY AND RENAL FAILURE	Utility - NSPCT	United States of America	Jan 28, 2014	14764139			Pending	None.
METHODS AND COMPOSITIONS FOR DIAGNOSIS AND PROGNOSIS OF RENAL INJURY AND RENAL FAILURE	Utility - NSPCT	United States of America	Feb 26, 2014	14770442			Pending	None.
METHODS AND COMPOSITIONS FOR DIAGNOSIS AND PROGNOSIS OF RENAL INJURY AND RENAL FAILURE	Utility - ORG	PCT	Oct 20, 2015	PCTUS2015056462			Pending	None.
METHODS AND COMPOSITIONS FOR DIAGNOSIS AND PROGNOSIS OF RENAL INJURY AND RENAL FAILURE	Utility - ORG	PCT	Nov 11, 2015	PCTUS2015060204			Pending	None.
METHODS AND COMPOSITIONS FOR DIAGNOSIS AND PROGNOSIS OF RENAL INJURY AND RENAL FAILURE	Utility - ORG	PCT	Dec 18, 2015	PCTUS2015066864			Pending	None.
METHODS AND COMPOSITIONS FOR DIAGNOSIS AND PROGNOSIS OF RENAL INJURY AND RENAL FAILURE	Utility - ORG	PCT	Feb 11, 2016	PCTUS2016017546			Pending	None.

**PATENT**

**REEL: 038459 FRAME: 0878**