

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

EPAS ID: PAT5157668

SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	SECURITY INTEREST	
CONVEYING PARTY DATA		
	Name	Execution Date
	CARIS SCIENCE, INC.	09/21/2018
	CARIS MPI, INC.	09/21/2018
RECEIVING PARTY DATA		
Name:	TPG SPECIALTY LENDING, INC.	
Street Address:	888 7TH AVE	
Internal Address:	30TH FLOOR	
City:	NEW YORK	
State/Country:	NEW YORK	
Postal Code:	10106	
PROPERTY NUMBERS Total: 77		
	Property Type	Number
	Patent Number:	8700335
	Patent Number:	8831890
	Patent Number:	8914239
	Patent Number:	8880350
	Patent Number:	9383365
	Patent Number:	9372193
	Patent Number:	8768629
	Patent Number:	9053224
	Patent Number:	9092392
	Patent Number:	9064045
	Patent Number:	9058418
	Patent Number:	9292660
	Patent Number:	9322067
	Patent Number:	9389234
	Application Number:	14687831
	Application Number:	15093634
	Application Number:	15093653
	Application Number:	15093668

Property Type	Number
Application Number:	15094434
Application Number:	15094457
Application Number:	15094470
Application Number:	15094486
Application Number:	15094507
Application Number:	15094520
Application Number:	15099422
Application Number:	15099442
Application Number:	15099454
Application Number:	15099466
Application Number:	15099512
Application Number:	15099517
Application Number:	15099530
Application Number:	15192792
Application Number:	15494018
Application Number:	15294493
Application Number:	15115617
Application Number:	15762932
Application Number:	15555378
Application Number:	62622679
Application Number:	62631381
Application Number:	62682444
Application Number:	12524462
Application Number:	12711499
Application Number:	14477907
Application Number:	12739087
Application Number:	15381668
Application Number:	14438172
Application Number:	15913772
Application Number:	14652728
Application Number:	15913415
Application Number:	14915249
Application Number:	15528417
Application Number:	15258962
Application Number:	15871313
Application Number:	15669782
Application Number:	15738564
Application Number:	62595954

Property Type	Number
Application Number:	15745407
Application Number:	15557010
Application Number:	62559238
Application Number:	62561145
Application Number:	62640503
Application Number:	62665361
Application Number:	62700696
Application Number:	62571188
Application Number:	62650522
Application Number:	62682018
Application Number:	62725876
Application Number:	62653445
Application Number:	12591226
Application Number:	12609847
Application Number:	12963468
Application Number:	13009285
Application Number:	13009393
Application Number:	13581795
Application Number:	13639756
Application Number:	15905247
Application Number:	15905285

CORRESPONDENCE DATA

Fax Number:

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.

Email: JLDereka@mintz.com

Correspondent Name: JENNIFER DEREKA

Address Line 1: 666 THIRD AVENUE

Address Line 2: MINTZ LEVIN

Address Line 4: NEW YORK, NEW YORK 10017

ATTORNEY DOCKET NUMBER:	048697-917
NAME OF SUBMITTER:	ROBERT SWEENEY
SIGNATURE:	/robert sweeney/
DATE SIGNED:	09/25/2018

Total Attachments: 11

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PATENT SECURITY AGREEMENT

This PATENT SECURITY AGREEMENT (this “**Agreement**”), dated as of September 21, 2018 is entered into by and among CARIS SCIENCE, INC., a Texas corporation (“CSI”) and CARIS MPI, INC., a Texas corporation (together with CSI, the “**Grantors**”) and TPG SPECIALTY LENDING, INC. (the “**Assignee**”), as Administrative Agent pursuant to (i) that certain Pledge and Security Agreement, dated as of the date hereof, among the Assignee, the Grantor and the other Grantors party thereto (as amended, restated, supplemented or otherwise modified from time to time, the “**Security Agreement**”), and (ii) that certain Financing Agreement, dated as of the date hereof (as amended, restated, supplemented or otherwise modified from time to time, the “**Financing Agreement**”), between, among others, CSI, certain of the Grantors' affiliates, the Assignee, and certain Lenders party thereto.

Capitalized terms not otherwise defined herein have the respective meanings ascribed to them in the Security Agreement or the Financing Agreement, as applicable. For purposes of this Agreement, “**Patents**” shall mean all of the following now owned or hereafter acquired by each Grantor: (a) all United States and foreign patents and certificates of invention, or similar industrial property rights, and applications for any of the foregoing, including, without limitation, the applications and registrations listed on Schedule A hereto and (b) with respect to any and all of the foregoing: (i) all reissues, divisions, continuations, continuations-in-part, extensions, renewals, and reexaminations thereof, (ii) all rights corresponding thereto throughout the world, (iii) all inventions and improvements described therein, (iv) all rights to sue for past, present and future infringements thereof, (v) all licenses, claims, damages, and proceeds of suit arising therefrom, and (vi) all Proceeds of the foregoing, including, without limitation, licenses, royalties, income, payments, claims, damages, and proceeds of suit.

WHEREAS, pursuant to the Security Agreement, each Grantor has granted in favor of the Assignee a security interest in certain Collateral of such Grantor, including such Grantor's Patents.

NOW, THEREFORE, in consideration of the foregoing and for other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, each Grantor and the Assignee hereby agree as follows:

1. Grant of Security Interest

(a) Subject to the terms and conditions of the Security Agreement, to evidence further the security interest granted by such Grantor to the Assignee pursuant to the Security Agreement, as collateral security for the prompt and complete payment or performance in full when due, whether at stated maturity, by required prepayment, declaration, acceleration, demand or otherwise, of such Grantor's Secured Obligations, such Grantor hereby grants to the Assignee a security interest in and continuing Lien on all of such Grantor's right, title and interest in, to and under the Patents, whether now owned or existing or hereafter acquired or arising and wherever located.

(b) Notwithstanding anything to the contrary contained in clause (a), the security interest created by this Agreement shall not extend to any Excluded Assets.

(c) The security interest granted hereby is granted concurrently and in conjunction with the security interest granted to the Assignee under the Security Agreement. In the event that any of the provisions of this Agreement are in conflict with the Security Agreement, the provisions of the Security Agreement shall govern. This Agreement shall be coterminous with the term of the Security Agreement.

2. Modifications

This Agreement or any provision hereof may not be changed, waived, or terminated except in accordance with the amendment provisions of the Financing Agreement.

3. Applicable Law

THIS AGREEMENT AND THE RIGHTS AND OBLIGATIONS OF THE PARTIES HEREUNDER SHALL BE GOVERNED BY, AND SHALL BE CONSTRUED AND INTERPRETED IN ACCORDANCE WITH, THE LAWS OF THE STATE OF NEW YORK.

4. Counterparts

This Agreement may be executed by one or more of the parties to this Agreement on any number of separate counterparts (including by telecopy), and all of said counterparts taken together shall be deemed to constitute one and the same instrument.

ASSIGNEE:

TPG SPECIALTY LENDING, INC.,
as Administrative Agent

By: _____




Name: Robert Stanley
Title: President

Address of Assignee:

888 7th Avenue, 35th floor
New York, NY 10106

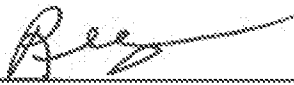
GRANTORS:

CARIS SCIENCE, INC.

By: 
Name: Russ Farr
Title: Secretary and Treasurer

Address of Grantor:
750 West John Carpenter Freeway, Suite 800
Irving, Texas 75039

CARIS MPI, INC.

By: 
Name: Russ Farr
Title: Secretary and Treasurer

Address of Grantor:
750 West John Carpenter Freeway, Suite 800
Irving, Texas 75039

SCHEDULE A
TO PATENT SECURITY AGREEMENT
Schedule A to PATENT SECURITY AGREEMENT

U.S. Registered Patents

Grantor	Title	Application Number	Filing Date	Status	Patent Number	Registration Date
Caris MPI, Inc.	SYSTEM AND METHOD FOR DETERMINING INDIVIDUALIZED MEDICAL INTERVENTION FOR A DISEASE STATE	11/750,721	5/18/2007	Issued	US 8,700,335	4/15/2014
Caris MPI, Inc.	SYSTEM AND METHOD FOR DETERMINING INDIVIDUALIZED MEDICAL INTERVENTION FOR A DISEASE STATE	14052503	10/11/2013	Issued	US 8,831,890	9/9/2014
Caris MPI, Inc.	SYSTEM AND METHOD FOR DETERMINING INDIVIDUALIZED MEDICAL INTERVENTION FOR A DISEASE STATE	14143959	12/30/2013	Issued	US 8,914,239	12/16/2014

Grantor	Title	Application Number	Filing Date	Status	Patent Number	Registration Date
Caris MPI, Inc.	SYSTEM AND METHOD FOR DETERMINING INDIVIDUALIZED MEDICAL INTERVENTION FOR A DISEASE STATE	14170466	1/31/2014	Issued	US 8,880,350	11/4/2014
Caris MPI, Inc.	SYSTEM AND METHOD FOR DETERMINING INDIVIDUALIZED MEDICAL INTERVENTION FOR A DISEASE STATE	14473871	8/29/2014	Issued	US 9,383,365	7/5/2016
Caris MPI, Inc.	SYSTEM AND METHOD FOR DETERMINING INDIVIDUALIZED MEDICAL INTERVENTION FOR A DISEASE STATE	14473881	8/29/2014	Issued	US 9,372,193	6/21/2016
Caris MPI, Inc.	MOLECULAR PROFILING OF TUMORS	12/658,770	2/12/2010	Issued	US 8,768,629	7/1/2014
Caris MPI, Inc.	MOLECULAR PROFILING FOR CANCER	14175728	2/7/2014	Issued	US 9,053,224	6/9/2015
Caris MPI, Inc.	MOLECULAR PROFILING FOR CANCER	14175781	2/7/2014	Issued	US 9,092,392	7/28/2015

Grantor	Title	Application Number	Filing Date	Status	Patent Number	Registration Date
Caris MPI, Inc.	MOLECULAR PROFILING FOR CANCER	14175800	2/7/2014	Issued	US 9,064,045	6/3/2015
Caris MPI, Inc.	MOLECULAR PROFILING OF TUMORS	14187008	2/21/2014	Issued	US 9,058,418	6/16/2015
Caris MPI, Inc.	MOLECULAR PROFILING OF TUMORS	14187015	2/21/2014	Issued	US 9,292,660	3/22/2016
Caris MPI, Inc.	MOLECULAR PROFILING OF TUMORS	14249261	4/9/2014	Issued	US 9,322,067	4/26/2016
Caris MPI, Inc.	MOLECULAR PROFILING OF TUMORS	14551364	11/24/2014	Issued	US 9,389,234	7/12/2016
Caris MPI, Inc.	MOLECULAR PROFILING OF TUMORS	14687831	4/15/2015	Pending		
Caris MPI, Inc.	MOLECULAR PROFILING OF TUMORS	15093634	4/7/2016	Pending		
Caris MPI, Inc.	MOLECULAR PROFILING OF TUMORS	15093653	4/7/2016	Pending		
Caris MPI, Inc.	MOLECULAR PROFILING OF TUMORS	15093668	4/7/2016	Pending		
Caris MPI, Inc.	MOLECULAR PROFILING OF TUMORS	15094434	4/8/2016	Pending		

Grantor	Title	Application Number	Filing Date	Status	Patent Number	Registration Date
Caris MPI, Inc.	MOLECULAR PROFILING OF TUMORS	15094457	4/8/2016	Pending		
Caris MPI, Inc.	MOLECULAR PROFILING OF TUMORS	15094470	4/8/2016	Pending		
Caris MPI, Inc.	MOLECULAR PROFILING OF TUMORS	15094486	4/8/2016	Pending		
Caris MPI, Inc.	MOLECULAR PROFILING OF TUMORS	15094507	4/8/2016	Pending		
Caris MPI, Inc.	MOLECULAR PROFILING OF TUMORS	15094520	4/8/2016	Pending		
Caris MPI, Inc.	MOLECULAR PROFILING OF TUMORS	15099422	4/14/2016	Pending		
Caris MPI, Inc.	MOLECULAR PROFILING OF TUMORS	15099442	4/14/2016	Pending		
Caris MPI, Inc.	MOLECULAR PROFILING OF TUMORS	15099454	4/14/2016	Pending		
Caris MPI, Inc.	MOLECULAR PROFILING OF TUMORS	15099466	4/14/2016	Pending		
Caris MPI, Inc.	MOLECULAR PROFILING OF TUMORS	15099512	4/14/2016	Pending		

Grantor	Title	Application Number	Filing Date	Status	Patent Number	Registration Date
Caris MPI, Inc.	MOLECULAR PROFILING OF TUMORS	15099517	4/14/2016	Pending		
Caris MPI, Inc.	MOLECULAR PROFILING OF TUMORS	15099530	4/14/2016	Pending		
Caris MPI, Inc.	MOLECULAR PROFILING OF TUMORS	15192792	6/24/2016	Pending		
Caris MPI, Inc.	MOLECULAR PROFILING OF TUMORS	15494018	4/21/2017	Pending		
Caris MPI, Inc.	MOLECULAR PROFILING FOR CANCER	15294493	10/14/2016	Pending		
Caris MPI, Inc.	MOLECULAR PROFILING OF IMMUNE MODULATORS	15115617	7/29/2016	Pending		
Caris Science, Inc.	METHOD, APPARATUS, AND COMPUTER PROGRAM PRODUCT FOR ANALYZING BIOLOGICAL DATA	15762932	3/23/2018	Pending		
Caris MPI, Inc.	MOLECULAR PROFILING FOR CANCER	15555378	9/1/2017	Pending		
Caris MPI, Inc.	TUMOR MUTATION PROFILING	62622679	1/26/2018	Pending		

Grantor	Title	Application Number	Filing Date	Status	Patent Number	Registration Date
Caris MPI, Inc.	TUMOR MUTATION PROFILING	62631381	2/15/2018	Pending		
Caris MPI, Inc.	MOLECULAR PROFILING	62682444	6/8/2018	Pending		
Caris Science, Inc.		12/524,462	7/25/2008	Issued	8,216,784	7/10/2012
Caris Science, Inc.		12/711,499	2/24/2010	Issued	8,637,254	1/28/2014
Caris Science, Inc.		14/477,907	10/10/2008	Issued	9758811	9/12/2017
Caris Science, Inc.		12/739,087	10/22/2008	Issued	US 9,315,804	4/19/2016
Caris Science, Inc.		15/381,668	12/16/2016	Pending		
Caris Science, Inc.		14438172	10/23/2013	Allowed	9,958,448	5/1/2018
Caris Science, Inc.		15913772	3/6/2018	Pending		
Caris Science, Inc.		14652728	6/16/2015	Allowed	9939443	4/10/2018
Caris Science, Inc.		15913415	3/6/2018	Pending		
Caris Science, Inc.		14915249	8/28/2014	Pending		
Caris Science, Inc.		15528417	11/23/2015	Pending		
Caris Science, Inc.		15258962	9/7/2016	Allowed	9910045	3/6/2018
Caris Science, Inc.		15871313	1/15/2018	Pending		
Caris Science, Inc.		15669782	10/10/2008	Pending		
Caris Science, Inc.		15738564	12/20/2017	Pending		
Caris Science, Inc.		62595954	12/7/2017	Pending		
Caris Science, Inc.		15745407	1/16/2018	Pending		
Caris Science, Inc.		15557010	9/8/2017	Pending		
Caris Science, Inc.		62559238	9/15/2017	Pending		
Caris Science, Inc.		62561145	9/20/2017	Pending		
Caris Science, Inc.		62640503	3/8/2018	Pending		
Caris Science, Inc.		62665361	5/1/2018	Pending		
Caris Science, Inc.		62700696	7/19/2018	Pending		
Caris Science, Inc.		62571188	10/11/2017	Pending		
Caris Science, Inc.		62650522	3/30/2018	Pending		
Caris Science, Inc.		62682018	6/7/2018	Pending		
Caris Science, Inc.		62725876	8/31/2018	Pending		

Grantor	Title	Application Number	Filing Date	Status	Patent Number	Registration Date
Caris Science, Inc.		62653445	4/5/2018	Pending		
Caris Science, Inc.	Methods and systems of using exosomes for determining phenotypes	12591226	11/12/2009	Issued	7897356	3/1/2011
Caris Science, Inc.	Methods for assessing RNA patterns	12609847	10/30/2009	Issued	7888035	2/15/2011
Caris Science, Inc.	Methods for assessing RNA patterns	12963468	12/8/2010	Issued	8192954	6/5/2012
Caris Science, Inc.	Methods and systems of using exosomes for determining phenotypes	13009285	1/19/2011	Issued	8211653	7/3/2012
Caris Science, Inc.	METHODS AND SYSTEMS OF USING EXOSOMES FOR DETERMINING PHENOTYPES	13009393	1/19/2011	Issued	8278059	10/2/2012
Caris Science, Inc.	Biomarkers for theranostics	13581795	3/1/2011	Issued	9128101	9/8/2015
Caris Science, Inc.	CIRCULATING BIOMARKERS FOR METASTATIC PROSTATE CANCER	13639756	4/24/2013	Issued	9469876	10/18/2016
Caris Science, Inc.	APTAMERS AND USES THEREOF	15905247	2/26/2018	Pending		
Caris Science, Inc.	COMPOSITIONS AND METHODS FOR APTAMER SCREENING	15905285	2/26/2018	Pending		

PATENT

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RECORDED: 09/25/2018