Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Daniel D. Von Hoff	06/09/2010
David M. Loesch	07/07/2010
Arlet Alarcon	06/10/2010
Robert J. Penny	07/07/2010
Alan Wright	06/09/2010
Matthew J. McGinniss	06/08/2010
Ryan P. Bender	06/08/2010
Traci Pawlowski	06/10/2010

RECEIVING PARTY DATA

Name:	Caris Life Sciences, Inc.
Street Address:	6655 N. MacArthur Blvd.
City:	Irving
State/Country:	TEXAS
Postal Code:	75039

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	12658770

CORRESPONDENCE DATA

Fax Number: (650)493-6811

Correspondence will be sent via US Mail when the fax attempt is unsuccessful.

Phone: 6504615211
Email: cricks@wsgr.com
Correspondent Name: Christine Ricks
Address Line 1: 650 Page Mill Road

Address Line 4: Palo Alto, CALIFORNIA 94304-1050

ATTORNEY DOCKET NUMBER: 37901-715.501

501437124 PATENT REEL: 025802 FRAME: 0188

12658770

CH \$40.00

NAME OF SUBMITTER:	Christine Ricks
Total Attachments: 8	
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		PATENT ASSIGNMENT			Docket Number 37901-715.501A
W!	HEREAS, the undersigned:	***************************************			
Ι.	VON HOFF, Daniel D. Phoenix, AZ	2. LOESCH, David M. Phoenix, AZ	3.	ALARCON, Arlet Phoenix, AZ	4. PENNY, Robert J. Phoenix, AZ
5.	WRIGHT, Alan Phoenix, AZ	6. MCGINNISS, Marthew J. San Diego, CA	7,	BENDER, Ryan P. Phoenix, AZ	8. PAWLOWSKI, Traci Phoenix, AZ
(be	ereinafter "Inventor(s))," have in	nvented certain new and useful impr	rovements	in	
		MOLECULA	R PROFII	ING OF TUMORS	
W	for which Application for which Application for which Application for which an application for which an application for which application for which an application for which application for		Patent C States Patent C Commonwe	ing Office of the Patent office; and/or tent issued on as U.	S. Patent No. ing a place of business at 6655 N. MacArthur Blvd., d to vaid Application(s) and the inventions disclosed
tiu	crein, and in and to all embodiment llectively referred to as "Invention anted in the United States, foreign	nts of the inventions, heretolore conce ns"), and in and to any and all patents, a countries, or under any international	inventor's convention	certificates and other form, agreement, protocol, or	ns of protection (hereinafter "Patent(s)") thereon treaty.
.	NOW, THEREFORE, in	consideration of good and valuable c	onsideratio	acknowledged by said I	nventor(s) to have been received in full from said
an second series problems prob	1. Said Inventor cluding the right to claim priority atent(s), including those filed under all applications filed and any argreement, protocol, or treuty, including those filed under the protocol, or treuty, including the protocol, or treuty, including the protocol of t	to said Inventions; (b) in and to all rig or the Paris Convention for the Protect id all Patent(s) granted on said Inventi- iding each and every application filed it of any of said Application(s); and (d r(s) hereby covenant and agree to coop United States, foreign countries, or un- oduction of pertinent facts and docum- ne extent deemed necessary or desire ing any applications covering said I ions; (d) for filing and prosecuting s tions; and (f) for legal proceedings	persecution of indu- ious in the (and any una) in and to o perate with oder any intents, giving able by said inventions; applications	mined states and contesting strial Property. The Paten United States, in any foreid ull Patent(s) granted on each and overy reissue, resaid Assignee to enable sernational convention, ag of testimony, execution of Assignee (a) for perfect (c) for filling and proset (c) for filling and proset (a) for reissuance of any sead in the property and any encentings and any proceedings, cancellation.	e right, title and interest (a) in and to said inventions, anding non-United States patent applications and t Cooperation Treaty or otherwise; (c) in and to any gen country, or under any international convention, any application which is a divisional, substitution, examination, or extensions of any of said Patent(s). aid Assignee to enjoy to the fullest extent the right, title reament, protocol, or treaty. Such cooperation by said of petitions, eaths, specifications, declarations or other ting in said Assignee the right, title and interest auting substitute, divisional, continuing or additional aid Patent(s); (e) for interference or other priority applications therefor and any Patent(s) granted proceedings, priority contests, public use
p	roceedings, infringement action aid for by said Assignce.	s and court actions; provided, howe	vet, wat u	e exbense incrured of a	ng magnay(2) m broarms again
n	 The terms a epresentatives, and shall be bind 	nd covenants of this assignment sha ling upon said inventor(s), their resp	ective heir	s, legal representatives	nee, its successors, assigns and other legal and assigns.
u	4. Suid Inventor anderstanding in conflict herewit	or(s) hereby warrant and represent the	hat they ha	ve not entered and will	not enter into any assignment, contract, or
8. T1	greement, protocol, or treaty, be epresentatives and assigns.	issued in the name of the Assignee	, or its suc	cessors and assigns, for	eign countries, or under any international convention, the sole use of said Assignee, its successors, legal
	IN WITNESS WHER	EOF, said Inventor(s) have executed			uid Assignee as of the dates written below:
I	Date:	niel D. Von Hoff	r	Date: 7/7/10	David M. Loesch Desch, M.O.
E	Date:	et Alarcon		>ate:	Robert J. Penny
E	Date:	n Wright	[Oate:	Matthew J. McGinniss

	DATENT ASSIGNMENT	Al-ministra	Docket Number 37901-715.501A
•	PATENT ASSIGNMENT	The second section is a second section of the section of th	
WHEREAS, the undersigned:	· · · · · · · · · · · · · · · · · · ·	2 AT ADMONG Autor	4. PENNY, Robert J.
1. VON HOFF, Daniel D. Phoenix, AZ	2. LOESCH, David M. Phoenix, AZ	3. ALARCON, Arlet Phoenix, AZ	Phoenix, AZ
5. WRIGHT, Alan Phoenix, AZ	6. MCGINNISS, Matthew J. San Diego, CA	7. BENDER, Ryan P. Phoenix, AZ	8. PAWLOWSKI, Traci Phoenix, AZ
(hereinafter "Inventor(s))." have	invented certain new and useful impa	ovements in	
	MOLECULAR	PROFILING OF TUMORS	
for which Applica for which Applica for which Applica for which Applica for which an appli (hereinafter "Application(s)").	I States patent application is executed ation No. 12/658.770 was filed on in the U. ation No. was filed on in the U. ation No. was filed on in the U. ation was filed upon which a United the State Off Co.	S. Receiving Office of the Patent - Patent Office; and/or States Patent issued on, as U.S.	S. Patent No.
Irving, Texas 75039, (hereinalter therein, and in and to all embodim collectively referred to as "Inventigeranted in the United States, foreign	ents of the inventions, heretofore concei- ons"), and in and to any and all patents, i an countries, or under any international c	ved, made or discovered, whether joinventor's certificates and other form convention, agreement, protocol, or t	intly or severally, by said Inventor(s) (hereinafter is of protection (hereinafter "Patent(s)") thereon trenty.
Assignee:			nventor(s) to have been received in full from said
including the right to claim priority Patent(s), including those filed und and all applications filed and any a agreement, protocol, or treaty, incl continuation, or continuation-in-pa	y to said Inventions; (b) in and to all right der the Paris Convention for the Protection and all Patent(s) granted on said Invention hading each and every application fited a art of any of said Application(s); and (d)	on of Industrial Property, The Patent ons in the United States, in any foreig and any and all Patent(s) granted on a in and to each and every reissue, rec	e right, title and interest (a) in and to said Inventions, ading non-United States patent applications and to Cooperation Treaty or otherwise; (c) in and to any gn country, or under any international convention, any application which is a divisional, substitution, examination, or extensions of any of said Patent(s).
and interest herein conveyed in the Inventor(s) shall include prompt p papers, and other assistance all to herein conveyed; (b) for prosect applications covering said Inventoreodings involving said Inventoreon, including without limit proceedings, infringement actional for by said Assignee.	e United States, foreign countries, or und reduction of pertinent facts and documen the extent deemed necessary or desiral uting any applications covering said In- tions; (d) for filing and prosecuting as entions; and (f) for legal proceedings in ation reissues and reexaminations, op- ins and court actions; provided, however.	ner any international conventions into giving of testimony, executions ble by said Assignee (a) for perfect eventions; (c) for filling and prosect pplications for reissuance of any survolving said Inventions and any aposition proceedings, cancellationer, that the expense incurred by said.	aid Assignee to enjoy to the fullest extent the right, title reement, protocol, or treaty. Such cooperation by said of petitions, oaths, specifications, declarations or other ting in said Assignee the right, title and interest uting substitute, divisional, continuing or additional aid Patent(s); (e) for interference or other priority applications therefor and any Patent(s) granted proceedings, priority contests, public use aid Inventor(s) in providing such cooperation shall be
3. The terms representatives, and shall be bin	ding upon said Inventor(s), their respe	ective neirs, legal representatives a	
understanding in conflict herew	rith.		not enter into any assignment, contract, or
agreement, protocol, or treaty, t	be issued in the name of the Assignee,	Of 113 Successors und assigns, tor	eign countries, or under my international convention, the sole use of said Assignee, its successors, legal
IN WITNESS WHE	REOF, said Inventor(s) have executed	and delivered this instrument to s	aid Assignee as of the dates written below:
Date:D	aniel D. Von Hoff	Date:	David M Loesch
Date:A	rlet Alarcon	Date: 7 1 10	Robert J. Prins
Date:	lan Wright	Date:	Matthew J. McGinniss

	PATENT ASSIGNM	MENT		Docket Number 37901-715.501
WHEREAS, the undersigned:				
VON HOFF, Daniel D. Phoenix, AZ	2. LOESCH, David Phoenix, AZ	M, 3.	ALARCON, Arlet Phoenix, AZ	4. PENNY, Robert J. Phoenix, AZ
5. WRIGHT, Alan Phoenix, AZ	6. MCGINNISS, Ma San Diego, CA	atthew J. 7.	BENDER, Ryan P. Phoenix, AZ	8. PAWLOWSKI, Traci Phoenix, AZ
(hereinafter "Inventor(s))," ha	ave invented certain new and t	useful improvements	in	
			LING OF TUMORS	
for which App for which App for which App for which an a (hereinafter "Application(s)" WHEREAS, Caris Life Scien	ces, Inc., a corporation of the	in the U.S. Receive in the Patent Cech a United States Pa	ing Office of the Patent office; and/or tent issued on, as U.S.	ing a place of business at <u>6655 N. MacArthur Blyd.</u> It is said Application(s) and the inventions disclosed
therein, and in and to all embor collectively referred to as "Invi- granted in the United States, for	diments of the inventions, hereic entions"), and in and to any and oreign countries, or under any in	all patents, inventor's iternational convention	certificates and other form, agreement, protocol, or t	is of protection (hereinafter "Patent(s)") thereon reaty.
NOW, THEREFOR	RE, in consideration of good and	1 valuable consideratio	n acknowledged by said li	ventor(s) to have been received in full from said
including the right to claim pri Patent(s), including those filed and all applications filed and a agreement, protocol, or treaty, continuation, or continuation-	fority to said Inventions; (b) in a I under the Paris Convention for any and all Patent(s) granted on including each and every application in-part of any of said Application	and to all rights to all U the Protection of Indu said Inventions in the U cation filed and any an n(s); and (d) in and to	nited States and correspondent strial Property, The Patent United States, in any foreig d all Patent(s) granted on a each and every reissue, rec	e right, title and interest (a) in and to said inventions, ading non-United States patent applications and Cooperation Treaty or otherwise; (c) in and to any gracountry, or under any international convention, any application which is a divisional, substitution, examination, or extensions of any of said Patent(s).
and interest herein conveyed i Inventor(s) shall include prom- papers, and other assistance al herein conveyed; (b) for pro- applications covering said in proceedings involving said if	n the United States, foreign coupt production of pertinent facts if to the extent deemed necessal secuting any applications coverventions; (d) for filing and prinventions; and (f) for legal prinventions;	and documents, giving ry or desirable by said ering said Inventions; osecuting application occedings involving s	g of testimony, execution of a Assignce (a) for perfect (c) for filing and prosects for reissuance of any standard inventions and any a standard inventions and any a standard inventions are appeallation.	aid Assignce to enjoy to the fullest extent the right, title element, protocol, or treaty. Such cooperation by said of petitions, oaths, specifications, declarations or other ting in said Assignce the right, title and interest uting substitute, divisional, continuing or additional aid Patent(s); (e) for interference or other priority applications therefor and any Patent(s) granted proceedings, priority contests, public use id Inventor(s) in providing such cooperation shall be
representatives, and shall be	binding upon said Inventor(s), their respective hen	s, legal representatives t	
4. Said Ir understanding in conflict he	iventor(s) hereby warrant and crewith.	represent that they ha	ive not entered and will i	not enter into any assignment, contract, or
agreement, protocol, or trea	ty, be issued in the name of th	e Assignee, or its suc	cessors and assigns, for	eign countries, or under any international convention the sole use of said Assignee, its successors, legal
IN WITNESS W	HEREOF, said invelop(s) he	ve executed and delive	ered this instrument to s	aid Assignee as of the dates written below:
Date: 6(1/10	Daniel D. Von Hoff	<u></u>	Date:	David M. Loesch
Date:	Arlet Alarcon	**************************************	Date:	Robert J. Penny
Date:	Alan Wright		Date:	Matthew J. McGinniss

PATENT ASSIGNMENT			Docket Number 37901-715.501	
/HEREAS, the undersigned:				
VON HOFF, Daniel D. Phoenix, AZ	LOESCH, David M. Phoenix, AZ	3. ALARCON, Arlet Phoenix, AZ	4. PENNY, Robert J. Phoenix, AZ	
. WRIGHT, Alan Phoenix, AZ	6. MCGINNISS, Matthew J. San Diego, CA	7. BENDER, Ryan P. Phoenix, AZ	8. PAWLOWSKI, Traci Phoenix, AZ	
hereinafter "Inventor(s))," ha	ve invented certain new and useful improve			
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for which Appl for which Appl for which Appl for which an appl for which an appleation(s)")		ebruary 12, 2010 in the United S Receiving Office of the Patent Co Patent Office; and/or tates Patent issued on, as U.S.	Patent No.	
(rving, Texas 75039) (hereinat herein, and in and to all embod collectively referred to as "Inve granted in the United States, for	fter "Assignee"), is desirous of acquiring the e liments of the inventions, heretofore conceive mitions"), and in and to any and all patents, inversign countries, or under any international cor-	d, made or discovered, whether joint ventor's certificates and other forms ovention, agreement, protocol, or treativention,		
NOW, THEREFOR	E, in consideration of good and valuable cons	nderation acknowledged by said Inv	entor(s) to have been received in full from said	
including the right to claim price Patent(s), including those filed and all applications filed and are agreement, protocol, or treaty, continuation, or continuation-in 2. Said Invand interest herein conveyed in Inventor(s) shall include prompapers, and other assistance all herein conveyed; (b) for prosapplications covering said In proceedings involving said In thereon, including without his proceedings, infringement ac paid for by said Assignce.	ority to said Inventions; (b) in and to all rights under the Paris Convention for the Protection my and all Patent(s) granted on said Inventions including each and every application filed and appart of any of said Application(s); and (d) in the united States, foreign countries, or under pt production of pertinent facts and documents to the extent deemed necessary or desirable secuting any applications covering said Inventions; (d) for filing and prosecuting approventions; and (f) for legal proceedings inventions and court actions; provided, however	s to all United States and corresponds of Industrial Property. The Patent C is in the United States, in any foreign d any and all Patent(s) granted on any and to each and every reissue, reexists with said Assignee to enable said or any international convention, agrees, giving of testimony, execution of perfecting the properties of the	Mivemon(s) in providing and toop of the second	
representatives, and shall be	ms and covenants of this assignment shall i binding upon said Inventor(s), their respec	tive heirs, legal representanves and	assigns.	
understanding in conflict her				
agreement, protocol, or treat representatives and assigns.	y, be issued in the name of the Assignee, or	r its successors and assigns, for the	e sole use of said Assignee, its successors, legal	
IN WITNESS WI	HEREOF, said Inventor(s) have executed a	nd delivered this instrument to said	d Assignee as of the dates written below:	
Date:	Daniel D. Von Hoff	Date:	David M. Loesch	
Date		Date:		
Date:	Arlet Alarcon		Robert J. Penny	
Date: 4/1/0	Alan Wright	Date:	Matthew J. McGinniss	
	/			

	PATENT ASSIGNMEN	NT	Docket Number 37901-715.501
WHEREAS, the undersigned:			
I. VON HOFF, Daniel D. Phoenix, AZ	 LOESCH, David M. Phoenix, AZ 	3. ALARCON, Ariet Phoenix, AZ	4. PENNY, Robert J. Phoenix, AZ
5. WRIGHT, Alan Phoenix, AZ	6. MCGINNISS, Matthe San Diego, CA	7. BENDER, Ryan P. Phoenix, AZ	8. PAWLOWSKI, Traci Phoenix, AZ
(hereinafter "Inventor(s))," hav	ve invented certain new and usef	ul improvements in	
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Irving, Texas 75039, (hereinand therein, and in and to all embod collectively referred to as "Invegranted in the United States, for	ter "Assignee"), is desirous of acquiments of the inventions, heretoforthicons"), and in and to any and all geign countries, or under any internity	niring the entire right, title and interest in a c conceived, made or discovered, whether patents, inventor's certificates and other for ational convention, agreement, protocol, o	jointly or severally, by said Inventor(s) (hereinafter rms of protection (hereinafter "Patent(s)") thereon r treaty.
NOW, THEREFORI	E, in consideration of good and val	uable consideration acknowledged by said	Inventor(s) to have been received in full from said
including the right to claim prio Patent(s), including those filed and all applications filed and an agreement, protocol, or treaty, i continuation, or continuation-in	rity to said Inventions, (b) in and to under the Paris Convention for the y and all Patent(s) granted on said neluding each and every application part of any of said Application(s);	o all rights to all United States and corresp Protection of Industrial Property, The Pate Inventions in the United States, in any for in filed and any and all Patent(s) granted or and (d) in and to each and every reissue, i	ire right, title and interest (a) in and to said inventions, conding non-United States patent applications and ent Cooperation Treaty or otherwise; (c) in and to any eign country, or under any international convention, in any application which is a divisional, substitution, reexamination, or extensions of any of said Patent(s).
and interest herein conveyed in Inventor(s) shall include promp papers, and other assistance all herein conveyed; (b) for prose applications covering said Inv proceedings involving said In	the United States, foreign countrie t production of pertinent facts and to the extent deemed necessary of ecuting any applications covering ventions; (d) for filing and prosec- ventions; and (f) for legal procec-	s, or under any international convention, a documents, giving of testimony, execution r desirable by said Assignee (a) for perfig said Inventions; (c) for filing and prosecuting applications for reissuance of any ddings involving said Inventions and any consecutions are received.	said Assignee to enjoy to the fullest extent the right, title greement, protocol, or treaty. Such cooperation by said a of petitions, oaths, specifications, declarations or other ecting in said Assignee the right, title and interest ecuting substitute, divisional, continuing or additional said Patent(s); (e) for interference or other priority applications therefor and any Patent(s) granted on proceedings, priority contests, public use said Inventor(s) in providing such cooperation shall be
representatives, and shall be b	oinding upon said Inventor(s), the	eir respective heirs, legal representatives	
understanding in conflid here	ewith.		I not enter into any assignment, contract, or
agreement, protocol, or treaty representatives and assigns.	, be issued in the name of the As	ssignee, or its successors and assigns, to	oreign countries, or under any international convention, r the sole use of said Assignee, its successors, legal
IN WITNESS WH	EREOF, said Inventor(s) have ex	xecuted and delivered this instrument to	said Assignee as of the dates written below:
Date:	Daniel D. Von Hoff	Date:	David M. Loesch
Date: 6/10/10	Arlet Alarcon	Date:	Robert J. Penny
Date:	Alan Wright	Date:	Matthew J. McGinniss

	PATENT ASSIGNMENT		Docket Number 37901-715.501
WHEREAS, the undersigned:			
. VON HOFF, Daniel D. Phoenix, AZ	2. LOESCH, David M. Phoenix, AZ	3. ALARCON, Arlet Phoenix, AZ	4. PENNY, Robert J. Phoenix, AZ
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NOW, THEREFORE Assignee:	, in consideration of good and valuable con	nsideration acknowledged by said I	nventor(s) to have been received in full from said
including the right to claim prior Patent(s), including those filed u and all applications filed and any agreement, protocol, or treaty, in continuation, or continuation-in-	ity to said Inventions; (b) in and to all right inder the Paris Convention for the Protectic and all Patent(s) granted on said Invention cluding each and every application filed at part of any of said Application(s); and (d)	is to all United States and correspond of Industrial Property, The Pater ins in the United States, in any foreignd any and all Patent(s) granted on in and to each and every reissue, re	e right, title and interest (a) in and to said Inventions, nding non-United States patent applications and it Cooperation Treaty or otherwise; (c) in and to any gn country, or under any international convention, any application which is a divisional, substitution, examination, or extensions of any of said Patent(s).
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3. The term representatives, and shall be b	s and covenants of this assignment shall inding upon said Inventor(s), their respo	inure to the benefit of said Assigntive heirs, legal representatives	gnee, its successors, assigns and other legal and assigns.
understanding in conflict here	with.		not enter into any assignment, contract, or
agreement, protocol, or treaty, representatives and assigns.	be issued in the name of the Assignee,	or its successors and assigns, for	eign countries, or under any international convention the sole use of said Assignee, its successors, legal
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Date:	Daniel D. Von Hoff	Date:	David M. Loesch
Date:	Arlet Alarcon	Date:	Robert J. Penny
Date:	Alan Wright	Date: (5 - 5 - 10	Matthew J. McGinniss

PATENT ASSIGNMENT	Docket Number 37901-715.501		
Date: 6-8-10 Ryan P. Bender	Date: 6-10-10	Traci Pawlowski	
RECEIVED AND AGREED TO BY ASSIGNEE:			
Date:	By: Name: Russel Fa Title: Senior V	arr P & General Counsel	

PATENT ASSIGNMENT	Docket Number 37901-715.501
Date: Ryan P. Bender	Date: Traci Pawlowski
RECEIVED AND AGREED TO BY ASSIGNEE: Date:	By: Name: Russel/Farr Title: Senior VP & General Counsel

Patent Assignment

RECORDED: 02/10/2011

Page 2 of 2