# 504263490 03/08/2017

# PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4310170

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
JOHN FREDERICK REGAN	03/07/2012
SERGE SAXONOV	03/09/2012
MIKE LUCERO	03/19/2012
BEN HINDSON	03/06/2012
PHIL BELGRADER	03/07/2012
SIMANT DUBE	03/09/2012
AUSTIN SO	03/06/2012
JEFFREY CLARK MELLEN	03/06/2012
NICHOLAS JACK HEREDIA	03/07/2012
KEVIN NESS	03/06/2012
BILL COLSTON	03/06/2012

#### **RECEIVING PARTY DATA**

Name:	BIO-RAD LABORATORIES, INC.
Street Address:	1000 ALFRED NOBEL DRIVE
City:	HERCULES
State/Country:	CALIFORNIA
Postal Code:	94547

## **PROPERTY NUMBERS Total: 1**

Property Type	Number	
Application Number:	14848311	

## **CORRESPONDENCE DATA**

**Fax Number:** (503)972-9115

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:** 503-224-6655

Email: mandi@khpatent.com

Correspondent Name: JAMES R. ABNEY / KOLISCH HARTWELL, P.C.

Address Line 1: 520 S.W. YAMHILL ST., SUITE 200 Address Line 4: PORTLAND, OREGON 97204

PATENT 504263490 REEL: 041510 FRAME: 0606

ATTORNEY DOCKET NUMBER:	QLI367DIV	
NAME OF SUBMITTER:	JAMES R. ABNEY	
SIGNATURE:	/ James R. Abney /	
DATE SIGNED:	03/08/2017	
Total Attachments: 6 source=Executed_Assignment_COPY_QLI367#page1.tif source=Executed_Assignment_COPY_QLI367#page2.tif source=Executed_Assignment_COPY_QLI367#page3.tif		
source=Executed_Assignment_COPY_QLI367#page4.tif source=Executed_Assignment_COPY_QLI367#page5.tif source=Executed_Assignment_COPY_QLI367#page6.tif		

PATENT REEL: 041510 FRAME: 0607

PATE	ENT ASSIGNMENT	Docket Number 38938-713.201
WHEREAS, the undersigned:		
REGAN, John Frederick San Maleo, CA	5. BELGRADER, Phil Severna Park, MD	HEREDIA, Nicholas Jack     Mountain House, CA
2. SAXONOV, Serge San Mateo, CA	6. DUBE, Simant Pleasanton, CA	10: NESS, Kevin San Mateo, CA
3. LUCERO, Mike South San Francisco, CA	7. SO, Austin Picasanton, CA	11, COLSTON, Bill San Ramon, CA
HINDSON, Ben Livermore, CA	8 MELLEN, Jeffrey Clark San Francisco, CA	<i>#</i>
(hereinafter "Inventor(s))," hav	re invented certain new and useful in	
	ANALY	YSIS OF NUCLEIC ACIDS
☑ for which Applie ☐ for which Applie ☐ for which Applie	cation Nowas filed on cation Nowas filed on dication was filed upon which a Unit	February 9, 2012 in the United States Patent Office; in the U.S. Receiving Office of the Patent Cooperation Treaty;
Suite 401, Pleasanton, CA 94 Application(s) and the invention whether jointly or severally, be certificates and other forms of international convention, agree	566, (hereinafter "Assignee"), is desions disclosed therein, and in and to a y said Inventor(s) (hereinafter collect protection (hereinafter "Patent(s)") tement, protocol, or treaty.	of the <u>State of Delaware</u> , having a place of business at <u>7068 Koll Center</u> , irous of acquiring the entire right, title and interest in and to said ll embodiments of the inventions, heretofore conceived, made or discovered, tively referred to as "Inventions"), and in and to any and all patents, inventor's thereon granted in the United States, foreign countries, or under any
NOW, THEREFOR full from said Assignee:	E, in consideration of good and value	able consideration acknowledged by said Inventor(s) to have been received in
said Inventions and said Appli United States and correspondi Protection of Industrial Proper Patent(s) gramted on said law	ications, including the right to claim ing non-United States parent applicatively. The Patent Cooperation Treaty on thions in the United States, in any low recognition filed and any and all P	r and convey unto said Assignee the entire right, title and interest (a) in and to priority to said inventions and said Applications; (b) in and to all rights to all ions and Patent(s), including those filed under the Paris Convention for the or otherwise; (c) in and to any and all applications filed and any and all reign country, or under any international convention, agreement, protocol, or latent(s) granted on any application which is a divisional, substitution, and (d) in and to each and every reissue, reexamination, or extensions of any
extent the right, title and inter protocol, or treaty. Such coop execution of petitions, oaths, said Assignee (a) for perfecti- Inventions; (c) for filing and i prosecuting applications for re (f) for legal proceedings involve reissues and reexaminations, and court actions; provided, h Assignee.	est herein conveyed in the United Statemation by said Inventor(s) shall find specifications, declarations or other particles and prosecuting substitute, divisional, concissuance of any said Patent(s); (e) following said Inventions and any application proceedings, cancellation however, that the expense incurred by	cooperate with said Assignee to enable said Assignee to enjoy to the fullest ates, foreign countries, or under any international convention, agreement, lude prompt production of pertinent facts and documents, giving of testimony, papers, and other assistance ail to the extent deemed necessary or desirable by dinterest herein conveyed: (b) for prosecuting any applications covering said intinuing or additional applications covering said Inventions: (d) for filling and or interference or other priority proceedings involving said Inventions; and ations therefor and any Patent(s) granted thereon, including without limitation proceedings, priority contests, public use proceedings, infringement actions y said Inventor(s) in providing such cooperation shall be paid for by said
representatives, and shall be t	oinding upon said Inventor(s), their re	half inure to the benefit of said Assignee, its successors, assigns and other legal espective heirs, legal representatives and assigns.
4. Said Inve	ntor(s) hereby warrant and represent ewith.	that they have not entered and will not enter into any assignment, contract, or
convention, agreement, proto	col, or treaty, be issued in the name of atives and assigns.	tt(s) issuing in the United States, foreign countries, or under any international of the Assignee, or its successors and assigns, for the sole use of said Assignee.
conflict of law principles. If and enforceable to the greate	any provision of this instrument is fo	ued in accordance with the laws of the State of California, without regard to ound to be illegal or unenforceable, the other provisions shall remain effective rument may be executed in counterparts, each of which is deemed an original,

	PATENT ASSIGNMENT	Docket Number 38938-713.201	
IN W	ITNESS WHEREOF, said inventor(s) have executed and de	elivered this instrument to	said Assignee as of the dates written below:
Date:		Date:	Serge Saxonov
	John Frederick Regan		perse proving.
Date:		Date:	Ben Hindson
4	Mike Lucero	Date: 3/9/12	- and Dalo
Date:	000 TO 200	Date: 2114	Simant Dube
	Phil Belgrader	1 1	200000000000000000000000000000000000000
Date:		Date:	Jetfrev Clark Mellen
	Austin So		5.615555 <b>4</b> 6
Date:	2	Date:	Kevin Ness
	Nicholas Jack Heredia		SEVIET INCOM
Date:			
	Bill Colston		1000000000

Page 2 of 2

	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					
PATENT ASSIGNMENT		Docket Number 38938-713.201				
W	HEREAS, the undersigned:		A			
	REGAN, John Frederick San Mateo, CA	5.	BELGRADER, Phil Severna Park, MD		HEREDIA, Nicholas Jack     Mountain House, CA	
2.	SAXONOV, Serge San Mateo, CA	6.	DUBE, Simant Pleasanton, CA		10. NESS, Kevin San Mateo, CA	
3.	LUCERO, Mike South San Francisco, CA	7.	SO, Austin Pleasanton, CA		11. COLSTON, Bill San Ramon, CA	
4.	HINDSON, Ben Livermore, CA	-8.	MELLEN, Jeffrey Clark San Francisco, CA		***	
(h	ereinafter "Inventor(s))," have	іпу	ented certain new and useful imp	provement	in	
			ANALY:	SIS OF N	UCLEIC ACIDS	
<b>(</b> t	for which Application for which Application for which Application	tion tion	No was filed on i	ebruary 9 in the U.S. in the	2012 in the United States Patent Office; Receiving Office of the Patent Cooperation Treaty; Patent Office; and/or stent issued on as U.S. Patent No	
S A W	uite 401, Pleasanton, CA 945, pplication(s) and the invention whether jointly or severally, by crifficates and other forms of paternational convention, agrees	56, ( is di said rote nent	hereinafter "Assignee"), is desing sclosed therein, and in and to all Inventor(s) (hereinafter collection (hereinafter "Patent(s)") the protocol, or treaty.	ous of acquiembodimely referrated in the second grant construction of the second grant construction	of Delaware, having a place of business at 7068 Koll ( uiring the entire right, title and interest in and to said ents of the inventions, heretofore conceived, made or dis ed to as "Inventions"), and in and to any and all patents, ted in the United States, foreign countries, or under any	scovered, inventor's
fi	NOW, THEREFORE all from said Assignee:	, in	consideration of good and valual	ble conside	ration acknowledged by said Inventor(s) to have been re	eceived in
P ti	aid Inventions and said Applic Inited States and correspondin Protection of Industrial Propert Patent(s) granted on said Inven- reaty, including each and ever- continuation, or continuation-in if said Patent(s).	ation g no y, Thions ions app	ns, including the right to claim p n-United States patent application he Patent Cooperation Treaty or in the United States, in any fore olication filed and any and all Pat t of any of said Application(s); a	riority to some and Parotherwise eign country uent(s) graand (d) in a	y unto said Assignee the entire right, title and interest (a aid Inventions and said Applications; (b) in and to all rightent(s), including those filed under the Paris Convention; (c) in and to any and all applications filed and any and y, or under any international convention, agreement, profited on any application which is a divisional, substitution and to each and every reissue, reexamination, or extension	for the all ottocol, or on, ons of any
e s l p (	extent the right, title and intere- protocol, or treaty. Such cooper execution of petitions, oaths, spaid Assignee (a) for perfecting inventions; (c) for filling and pro- prosecuting applications for re- if) for legal proceedings involved reissues and reexaminations, of and court actions; provided, he Assignee.	st he eration g in s cosecus ssua ing possowev	rein conveyed in the United States by said Inventor(s) shall includications, declarations or other passaid Assignee the right, title and outing substitute, divisional, continue of any said Patent(s); (e) for said Inventions and any application proceedings, cancellation per, that the expense incurred by	tes, foreign de prompt apers, and interest he interferent ions therei proceeding said Inven	with said Assignee to enable said Assignee to enjoy to the countries, or under any international convention, agreed production of pertinent facts and documents, giving of the assistance all to the extent deemed necessary or detering conveyed; (b) for prosecuting any applications covered dilitional applications covering said inventions; (d) for or or other priority proceedings involving said Invention or and any Patent(s) granted thereon, including without or, priority contests, public use proceedings, infringement or(s) in providing such cooperation shall be paid for by	ment, testimony, sirable by siring said filing and ns; and limitation t actions said
ı	3. The terms representatives, and shall be bi	and ndin	covenants of this assignment sharp upon said inventor(s), their rea	all inure to spective he	the benefit of said Assignee, its successors, assigns and irs, legal representatives and assigns.	other legal
1	<ol> <li>Said Inventor(s) hereby warrant and represent that they have not entered and will not enter into any assignment, contract, or understanding in conflict herewith.</li> </ol>					
	convention, agreement, protocits successors, legal representa	ol, o tive:	r treaty, be issued in the name of and assigns.	f the Assig	in the United States, foreign countries, or under any intended in the sole use of said assigns, for the sole use of said	d Assignee,
	conflict of law principles. If a and enforceable to the greatest	ny p	rovicion of this instrument is for	ind to be il	dance with the laws of the State of California, without a legal or unenforceable, the other provisions shall remain be executed in counterparts, each of which is deemed a	I effective

PATENT ASSIGNMENT	Docket Number 38938-713.201
IN WITNESS WHEREOF, said inventor(	(s) have executed and delivered this instrument to said Assignee as of the dates written below
Date: 31711Z John Frederick Regan	Date: 39n Serge Saxonov
Date: 3/19/12 Mike Lucero Jo	Date: 3/6/17 Best Hudson
Date: Phil Belgrader	Date:Simant Dube
Date: 63/06/17 Applies Sg	Date: 76/12 Jeffrey Clark Mellen
Date: 3/7/12 Micholas Jack Heredia	Date: 3-6-12 Revin Ness
Date: 3/10/17 Bill Colston	

PATE	NT ASSIGNMENT	Docket Number 39938-713.201			
arrept 15 the auderrioned!					
WHEREAS, the undersigned:  1. REGAN, John Frederick San Matco, CA	5. BELGRADER, Phil Severna Pork, MD	9. HEREDIA, Nicholas Jack Mountain House, CA			
2. SAXONOV, Serge San Mateo, CA	6. DUBE, Simant Pleasanton, CA	(0, NESS, Kevin San Mateo, CA			
3. LUCERO, Mike South San Francisco, CA	7. SO, Austin Pleasauton, CA	II, COLSTON, Bill San Ramon, CA			
4. HINDSON, Ben Livermore, CA	<ol> <li>MELLEN, Jeffrey Clark</li> <li>San Francisco, CA</li> </ol>				
(hereinatler "Inventor(s))," have	e invented certain new and useful i	mprovements in			
		YSIS OF NUCLEIC ACIDS			
for which Applic for which Applic for which Applic for which an applic and application (s)").	eation Nowas filed on cation Nowas filed on dication was filed upon which a Un	in the U.S. Receiving Office of the Patent Cooperation Treaty; in the Patent Office; and/or ited States Palent issued on, as U.S. Patent No			
Application(s) and the inventive whether jointly or severally, be certificates and other forms of	WHEREAS, BIO-RAD LABORATORIES, INC., a corporation of the State of Delaware, having a place of business at 7068 Koll Center, Suite 401, Pleasanton, CA 94566, (hereinafter "Assignee"), is desirous of acquiring the entire right, title and interest in and to said Application(s) and the inventions disclosed therein, and in and to all embodiments of the inventions, heretofore conceived, made or discovered, Application(s) and the inventions disclosed therein, and in and to all embodiments of the inventions"), and in and to any and all patents, inventor whether jointly or severally, by said Inventor(s) (hereinafter collectively referred to as "Inventions"), and in and to any and all patents, inventor certificates and other forms of protection (hereinafter "Patent(s)") thereon granted in the United States, foreign countries, or under any				
NOW, THEREFOR	E, in consideration of good and val	hable consideration acknowledged by said Inventor(s) to have been received in			
said Inventions and said Appl United States and correspond Protection of Industrial Prope Patent(s) granted on said Inventeraty, including each and eve continuation, or continuation	lications, including the right to claim ing non-United States patent applic crty, The Patent Cooperation Treaty entions in the United States, in any ery application filed and any and al -in-part of any of said Application(	fer and convey unto said Assignee the entire right, title and interest (a) in and to in priority to said Inventions and said Applications; (b) in and to all rights to all rations and Patent(s), including those filed under the Paris Convention for the ror otherwise; (c) in and to any and all applications filed and any and all foreign country, or under any international convention, agreement, protocol, or I Patent(s) granted on any application which is a divisional, substitution, s); and (d) in and to each and every reissue, reexamination, or extensions of any			
2. Said Investment the right, title and interprotocol, or treaty. Such concentrations of petitions, oaths, said Assignee (a) for perfect Inventions; (c) for filing and prosecuting applications for (f) for legal proceedings inversions and reexaminations and court actions; provided,	prest herein conveyed in the Office in presention by said Inventor(s) shall in a specifications, declarations or other ing in said Assignee the right, title a prosecuting substitute, divisional, reissuance of any said Patent(s); (e olving said Inventions and any apple, opposition proceedings, cancellation however, that the expense incurred	to cooperate with said Assignce to enable said Assignee to enjoy to the fullest States, foreign countries, or under any international convention, agreement, neclude prompt production of pertinent facts and documents, giving of testimony, or papers, and other assistance all to the extent deemed necessary or desirable by and interest herein conveyed; (b) for prosecuting any applications covering said continuing or additional applications covering said Inventions; (d) for filing and for interference or other priority proceedings involving said inventions; and lications therefor and any Patent(s) granted thereon, including without limitation on proceedings, priority contests, public use proceedings, infringement actions I by said Inventor(s) in providing such cooperation shall be paid for by said			
3. The term	Linding upon entd inventorist, the	t shall inure to the benefit of said Assignee, its successors, assigns and other legal ir respective heirs, legal representatives and assigns.			
4. Said In	ventor(s) hereby warrant and repres	ent that they have not entered and will not enter into any assignment, courted, or			
5. Said In convention, agreement, pro	ventor(s) hereby request that any Protocol, or treaty, be issued in the narrous and assigns	atent(s) issuing in the United States, foreign countries, or under any international me of the Assignce, or its successors and assigns, for the sole use of said Assignce			
conflict of law principles.	strument will be interpreted and con If any provision of this instrument in itest extent permitted by law. This institute one and the same agreeme	nstrued in accordance with the laws of the State of California, without regard to is found to be illegal or unenforceable, the other provisions shall remain effective instrument may be executed in counterparts, each of which is deemed an original, and			

	PATENT ASSIGNMENT	Docket Number 38938-713.201		
IN WITNESS	WHEREOF, said Inventor(s) have executed and deliv	vered this instrument to sai	d Assignee as of the dates written below:	
Date:	John Frederick Regan	Date:	Serge Saxonov	
Date:	Mikeli medd . A A	Date:	Ben Hindson	
Date: 3/1/12	Phil Belghter Dynkie	Date:	Simant Dube	
Date	Austin So	Date:	Jeffrey Clark Mellen	
Date:	Nicholas Jack Heredia	Date:	Kevin Ness	
Date:	Bill Colston			

4806629 LDOCX

Page 2 of 2