505368507 03/11/2019

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5415299

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
EMMANUEL KAMBEROV	11/22/2011
TONG SUN	11/01/2011
ERIC BRUENING	11/03/2011
JONATHON H. PINTER	11/28/2011
IRINA SLEPTSOVA	11/03/2011
TAKAO KURIHARA	11/28/2011
VLADIMIR L. MAKAROV	11/21/2011

RECEIVING PARTY DATA

Name:	RUBICON GENOMICS, INC.
Street Address:	4743 VENTURE DRIVE
City:	ANN ARBOR
State/Country:	MICHIGAN
Postal Code:	48108

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	16277972

CORRESPONDENCE DATA

Fax Number: (650)327-3231

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: 6503273400

Email: turner@bozpat.com
Correspondent Name: BRET E. FIELD

Address Line 1: 201 REDWOOD SHORES PARKWAY

Address Line 2: SUITE 200

Address Line 4: REDWOOD CITY, CALIFORNIA 94065

ATTORNEY DOCKET NUMBER:	CLON-159CIPCONDIVCON2
NAME OF SUBMITTER:	BRET E. FIELD
SIGNATURE:	/Bret E. Field, Reg. No. 37,620/
DATE SIGNED:	03/11/2019

505368507 REEL: 048563 FRAME: 0624

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Total Attachments: 10 source=CLON-159CIPCONDIVCON2_Assignment_from_PARENT#page1.tif source=CLON-159CIPCONDIVCON2_Assignment_from_PARENT#page2.tif source=CLON-159CIPCONDIVCON2_Assignment_from_PARENT#page3.tif source=CLON-159CIPCONDIVCON2_Assignment_from_PARENT#page4.tif source=CLON-159CIPCONDIVCON2_Assignment_from_PARENT#page5.tif source=CLON-159CIPCONDIVCON2_Assignment_from_PARENT#page6.tif source=CLON-159CIPCONDIVCON2_Assignment_from_PARENT#page7.tif source=CLON-159CIPCONDIVCON2_Assignment_from_PARENT#page8.tif source=CLON-159CIPCONDIVCON2_Assignment_from_PARENT#page9.tif source=CLON-159CIPCONDIVCON2_Assignment_from_PARENT#page9.tif

PATENT REEL: 048563 FRAME: 0625

PATENT FILE NO. RUBC:022USCIP

ASSIGNMENT

FOR GOOD AND VALUABLE CONSIDERATION, the receipt, sufficiency and adequacy of which are hereby acknowledged, the undersigned, do hereby:

SELL, ASSIGN AND TRANSFER to RUBICON GENOMICS (the "Assignee"), having a place of business at 4370 Varsity Drive, Suite G, Ann Arbor, Michigan 48108, the entire right, title and interest for the United States and all foreign countries in and to any and all improvements which are disclosed in the application for United States Letters Patent, Serial No. 12/716,681, which has been filed on March 3, 2010 and is entitled "AMPLIFICATION AND ANALYSIS OF WHOLE GENOME AND WHOLE TRANSCRIPTOME LIBRARIES GENERATED BY A DNA POLYMERIZATION PROCESS," which is a continuation in part of U.S. Application No. 10/795,667 filed on March 8, 2004 filed on application and all divisional, continuing, substitute, renewal, reissue and all other applications for patent which have been or shall be filed in the United States and all foreign countries on any of such improvements; all original and reissued patents which have been or shall be issued in the United States and all foreign countries on such improvements; and specifically including the right to file foreign applications under the provisions of any convention or treaty and claim priority based on such application in the United States;

AUTHORIZE AND REQUEST the issuing authority to issue any and all United States and foreign patents granted on such improvements to the Assignee;

WARRANT AND COVENANT that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been or will be made to others by the undersigned, and that the full right to convey the same as herein expressed is possessed by the undersigned;

COVENANT, when requested and at the expense of the Assignee, to carry out in good faith the intent and purpose of this assignment, the undersigned will execute all divisional, continuing, substitute, renewal, reissue, and all other patent applications on any and all such improvements; execute all rightful oaths, declarations, assignments, powers of attorney and other papers; communicate to the Assignee all facts known to the undersigned relating to such improvements and the history thereof; and generally do everything possible which the Assignee shall consider desirable for vesting title to such improvements in the Assignee, and for securing, maintaining and enforcing proper patent protection for such improvements;

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USSN 12/716,681

PAGE 04/09

TO BE BINDING on the heirs, assigns, representatives and successors of the undersigned and extend to the successors, assigns and nominees of the Assignee.

The assignment of said invention is effective as of the earlier of (1) the date of execution shown below or (2) the filing date of the first filed of said patent applications.

Signature:	Limit	Date	11/22	111
Name: Emmanuel	CAMBEROV			1
STATE OF <u>MICHIGAN</u> COUNTY OF <u>WASHTE</u> N				
COUNTION WASHING	<u>'4W</u>			
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Signature:		Date:		
Name: Tong SUN	And the state of t			
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Notary or Consular Officer

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will for the purposes and consideration therein expressed.

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PAGE

Date: 11-3-2011 Name: Eric BRUENING STATE OF Octob COUNTY OF A House to the foregoing instrument and acknowledged to me that he/she executed the same of his/her own free will for the purposes and consideration therein expressed, OPPICIAL SEAL KYLE TEUNE NOTARY PUBLIC - OREGON COMMISSION NO. 430237 MY COMMISSION EXPIRES JUNE 30, 2012 Signature: Name: Jonethan H. PINTER STATE OF COUNTY OF BEFORE ME, the undersigned authority, on this __ day of ___ personally appeared Jonathan H. PINTER, known to me to be the person whose name is subscribed to the foregoing instrument and acknowledged to me that be/she executed the same of his/her own free will for the purposes and consideration therein expressed. Notary or Consular Officer (SEAL) 66611870.1 USSN 12/716,681

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	Signature:			
	Name: Irina SLEPTSO	VA-	<u>.</u>	
	STATE OF LOUISIANA	3		
	COUNTY OF ST. TAMMI	WY		
			2 - 1 - Name Inc.	
	BEFORE ME, the unc	lersign Spece	ed authority, on this <u>3Rd</u> day of <u>November</u> 2011 DVA, known to me to be the person whose name is	
	any scriped to the foregoing ins	.CP 130	and acknowledged to me that he/she executed the same of	
	his/her own free will for the pu	rposes	and consideration therein expressed.	
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	Valerie S Bar	nas	Notary or Consular Officer	
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	Signature:	***	Date: 11/28/11	
	Name: Takao KURIHA	KA		9.5
	STATE OF MICHIGAN			
	COUNTY OF WASHTEN	W	şi e	
	DENONE 142 4L.	s	1	
	m ed, am anytau	ngieres '11 or 11	ed authority, on this <u>28</u> day of <u>Novervee</u> 2011 ARA, known to me to be the person whose name is	
	subscribed to the foregoing ins	rumen	and acknowledged to me that he/she executed the same of	
	his/her own free will for the pu	rposes	and consideration therein expressed.	
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Signature: Nation Vidamir L. MAKAROV

Date: 11/21/2011

STATE OF MICHLAN COUNTY OF WASHENAW

BEFORE ME, the undersigned authority, on this 21 day of November 2011 personally appeared Vladamir L. MAKAROV, known to me to be the person whose name is subscribed to the foregoing instrument and acknowledged to me that he/she executed the same of his/her own free will for the purposes and consideration therein expressed.

Notary or Consular Officer

[SEAL]

FULBRIGHT & JAWORSKI L.L.P. 98 San Jacinto Blvd., Suite 1100 Austin, Texas 78701

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USSN 12/716,681

PATENT FILE NO. RUBC:022USCIP

ASSIGNMENT

FOR GOOD AND VALUABLE CONSIDERATION, the receipt, sufficiency and adequacy of which are hereby acknowledged, the undersigned, do hereby:

SELL, ASSIGN AND TRANSFER to RUBICON GENOMICS (the "Assignee"), having a place of business at 4370 Varsity Drive, Suite G, Ann Arbor, Michigan 48108, the entire right, title and interest for the United States and all foreign countries in and to any and all improvements which are disclosed in the application for United States Letters Patent, Serial No. 12/716,681, which has been filed on March 3, 2010 and is entitled "AMPLIFICATION AND ANALYSIS OF WHOLE GENOME AND WHOLE TRANSCRIPTOME LIBRARIES GENERATED BY A DNA POLYMERIZATION PROCESS," which is a continuation in part of U.S. Application No. 10/795,667 filed on March 8, 2004 filed on application and all divisional, continuing, substitute, renewal, reissue and all other applications for patent which have been or shall be filed in the United States and all foreign countries on any of such improvements; all original and reissued patents which have been or shall be issued in the United States and all foreign countries on such improvements; and specifically including the right to file foreign applications under the provisions of any convention or treaty and claim priority based on such application in the United States;

AUTHORIZE AND REQUEST the issuing authority to issue any and all United States and foreign patents granted on such improvements to the Assignee;

WARRANT AND COVENANT that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been or will be made to others by the undersigned, and that the full right to convey the same as herein expressed is possessed by the undersigned;

COVENANT, when requested and at the expense of the Assignee, to carry out in good faith the intent and purpose of this assignment, the undersigned will execute all divisional, continuing, substitute, renewal, reissue, and all other patent applications on any and all such improvements; execute all rightful oaths, declarations, assignments, powers of attorney and other papers; communicate to the Assignee all facts known to the undersigned relating to such improvements and the history thereof; and generally do everything possible which the Assignee shall consider desirable for vesting title to such improvements in the Assignee, and for securing, maintaining and enforcing proper patent protection for such improvements;

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TO BE BINDING on the heirs, assigns, representatives and successors of the undersigned and extend to the successors, assigns and nominees of the Assignee.

The assignment of said invention is effective as of the earlier of (1) the date of execution shown below or (2) the filing date of the first filed of said patent applications.

Signature:)ate:	
Name: Emmanuel	AMBEROV			
STATE OF	**	55 5		
COUNTY OF	·			
BEFORE ME, the personally appeared Emmi subscribed to the foregoing his/her own free will for the	nuel KAMBE	ROV, known to no acknowledged to	ne to be the person me that he/she exect	, 2011 whose name is sted the same of
×		Notary or Const	day Officer	
(SEAL)	9%	Mark An Corp.	MIGE OTHERS	
former hand				
87	w'			
Signature: Name: Tong SUN STATE OF Michigan	2		Date: 11/1/	2011
COUNTY OF IN COUNTY OF	m Libur e	-		
BEFORE ME, the personally appeared Tong foregoing instrument and a will for the purposes and c	SUN, known to knowledged t	o me to be the per o me that he/she e	Son whose name is a xecuted the same of	ubscribed to the
		Jul	- John L	
12.4		Notary or Cons	ular Officer	
(SEAC) MOTARY PUBLIC - WAYNE COUNTY O ACTING IN THE COUNTY O	MICHIGAN TO THE MICHIGAN	٠.	*	** •

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Signature:		Date:	
Name: Eric B	RUENING		
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COUNTY OF	- The state of the		
ersonally appeared I the foregoing instr	Eric BRUENING, known to	ty, on this day of o me to be the person whose name is to me that he/she executed the sam therein expressed.	s subscribed
	Not	ary or Consular Officer	
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	MA PINTER	Date: ///28///	
STATE OF M	KHIGAN VAYNE		
		- 1 N 1	1
BEFORE ME personally appeared subscribed to the fore	Jonathan H. PINTER, kn egoing instrument and ackno for the purposes and consid	ty, on this 28th day of November to me to be the person who would dead to me that he/she executed the executed dead to the expressed. Any or Consular Officer	ose name is

USSN 12/716,681

MARY M. GORDON

Notary Public, Macomb County, Mi

Acting in 424 N E County

My Commission Expires October 16, 2013

Signature:	Date:
Name: Irina SLEPTSOVA	
STATE OF	
COUNTY OF	
personally appeared Irina SLEPTSO	d authority, on this day of, 2011 VA, known to me to be the person whose name is and acknowledged to me that he/she executed the same of and consideration therein expressed.
	Notary or Consular Officer
[SEAL]	v v
Signature: Name: Takao KURIHARA	Date:
STATE OF	
COUNTY OF	
personally appeared Takao KURIHA	d authority, on this day of, 2011 RA, known to me to be the person whose name is and acknowledged to me that he/she executed the same of a consideration therein expressed.
	Notary or Consular Officer
[SEAL]	-

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Signature:	3	Date:	::
Name: Vladamir L.	MAKAROV		
STATE OF			
COUNTY OF	***************************************		
BEFORE ME, the personally appeared Vladan subscribed to the foregoing in his/her own free will for the	nir L. MAKAROV, knoinstrument and acknowle	dged to me that he/she execu	whose name is
	Notary o	or Consular Officer	
[SEAL]			

FULBRIGHT & JAWORSKI L.L.P. 98 San Jacinto Blvd., Suite 1100 Austin, Texas 78701

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USSN 12/716,681 PATENT

RECORDED: 03/11/2019