

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
VLADIMIR L. MAKAROV	02/18/2003
IRINA SLEPTSOVA	02/18/2003
EMMANUEL KAMBEROV	02/21/2003
ERIC BRUENING	02/19/2003
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:	15229965
CORRESPONDENCE DATA	
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NAME OF SUBMITTER:	BRET E. FIELD
SIGNATURE:	/Bret E. Field, Reg. No. 37,620/
DATE SIGNED:	07/11/2017
Total Attachments: 3	
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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, INC. (the "Assignee"), having a place of business at 4370 Varsity Drive, 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 Provisional Patent Application No. 60/338,224; and United States Nonprovisional Patent Application No. 10/293,048 which has been filed on November 13, 2002 and is entitled "DNA AMPLIFICATION AND SEQUENCING USING DNA MOLECULES CREATED BY RANDOM FRAGMENTATION", such 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;

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

Signature: [Signature]
Name: Vladimir L. Makarov, Ph.D.

Date: 2/18/03

STATE OF _____)
) ss.
COUNTY OF _____)

BEFORE ME, the undersigned authority, on this ____ day of _____, 2002 personally appeared Vladimir L. Makarov, known to me to be the person whose name is subscribed to the foregoing instrument and acknowledged to me that he executed the same of his own free will for the purposes and consideration therein expressed.

Notary or Consular Officer

[SEAL]

Signature: [Signature]
Name: Irina Sleptsova

Date: 2/18/03

STATE OF _____)
) ss.
COUNTY OF _____)

BEFORE ME, the undersigned authority, on this ____ day of _____, 2002 personally appeared Irina Sleptsova, known to me to be the person whose name is subscribed to the foregoing instrument and acknowledged to me that she executed the same of her own free will for the purposes and consideration therein expressed.

Notary or Consular Officer

[SEAL]

Signature: E Kamberov
Name: Emmanuel Kamberov

Date: 02-21-03

STATE OF _____)
) ss.
COUNTY OF _____)

BEFORE ME, the undersigned authority, on this ____ day of _____, 2002 personally appeared Emmanuel Kamberov, known to me to be the person whose name is subscribed to the foregoing instrument and acknowledged to me that he executed the same of his own free will for the purposes and consideration therein expressed.

Notary or Consular Officer

[SEAL]

Signature: Eric Bruening
Name: Eric Bruening

Date: 2-19-03

STATE OF _____)
) ss.
COUNTY OF _____)

BEFORE ME, the undersigned authority, on this ____ day of _____, 2002 personally appeared Eric Bruening, known to me to be the person whose name is subscribed to the foregoing instrument and acknowledged to me that he executed the same of his own free will for the purposes and consideration therein expressed.

Notary or Consular Officer

[SEAL]

FULBRIGHT & JAWORSKI L.L.P.
1301 McKinney, Suite 5100
Houston, Texas 78701

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