505289076 01/22/2019

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
PIETER VAN ROOYEN	03/13/2018
MICHAEL RUEHLE	03/13/2018
RAMI MEHIO	03/15/2018
GAVIN STONE	03/14/2018
MARK DAVID HAHM	03/13/2018
ERIC OJARD	03/14/2018
AMNON PTASHEK	03/14/2018

RECEIVING PARTY DATA

Name:	EDICO GENOME CORPORATION
Street Address:	5200 ILLUMINA WAY
City:	SAN DIEGO
State/Country:	CALIFORNIA
Postal Code:	92122

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	16120103

CORRESPONDENCE DATA

Fax Number: (858)202-4545

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using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.

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Address Line 4: SAN DIEGO, CALIFORNIA 92122

ATTORNEY DOCKET NUMBER:	IP-1712D-US	
NAME OF SUBMITTER:	KEIKO A. MASUYAMA HICKS	
SIGNATURE:	/Keiko A. Masuyama Hicks/	
DATE SIGNED:	01/22/2019	

PATENT 505289076 REEL: 048085 FRAME: 0547

Total Attachments: 4

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PATENT REEL: 048085 FRAME: 0548

Docket No.: 49927-532C03US

ASSIGNMENT

We, Pieter van Rooyen, Michael Ruehle, Rami Mehio, Gavin Stone, Mark David Hahm, Eric Ojard, and Amnon Ptashek, the undersigned, herein referred to as the ASSIGNOR, for good and valuable consideration, the receipt of which is hereby acknowledged, confirm that we have sold and assigned, and do hereby assign, sell and transfer to Edico Genome Corporation, with offices at 12400 High Bluff Drive, Ste. 650, San Diego CA 92130 and to its successors, assigns and legal representatives, collectively hereinafter referred to as the ASSIGNEE: (1) our entire right, title and interest for the United States and in all countries, in and to any and all inventions, discoveries and applications which are disclosed in the application for United States Letters Patent entitled:

BIOINFORMATICS SYSTEMS, APPARATUSES, AND METHODS FOR GENERATING A DE BRUIJN GRAPH

and electronically filed with the U.S. Patent and Trademark Office on **February 27, 2018**, and assigned Application No. **15/907,263**, including any subsequently filed utility applications, which claim priority to Application No. **62/347,080**, including any renewals, revivals, reissues, reexaminations, extensions, continuations and divisions thereof and any substitute applications therefor; (2) the full and complete right to file patent applications in the name of the ASSIGNEE, its designee, or in our names as the ASSIGNEE, or its designee's election, on the aforesaid inventions, discoveries and applications in all countries of the world; (3) the entire right, title and interest in and to any Letters Patent which may issue thereon in the United States or in any country, and any renewals, revivals, reissues, reexaminations and extensions thereof, and any patents of confirmation, registration and importation of the same; and (4) the entire right, title and interest in all Convention and Treaty Rights of all kinds thereon, including without limitation all rights of priority in any country of the world, in and to the above inventions, discoveries and applications.

We hereby authorize and request the competent authorities to grant and to issue any and all such Letters Patent in the United States and throughout the world to the ASSIGNEE of the entire right, title and interest therein, as fully and entirely as the same would have been held and enjoyed by us had this assignment, sale and transfer not been made.

We agree, at any time, upon the request of the ASSIGNEE, to execute and to deliver to the ASSIGNEE any additional applications for patents for said inventions and discoveries, or any part or parts thereof, and any applications for patents of confirmation, registration and importation based on any Letters Patent issuing on said inventions, discoveries, or applications and divisions, continuations, renewals, revivals, reissues, reexaminations and extensions thereof.

We further agree at any time to execute and to deliver upon request of the ASSIGNEE such additional documents, if any, as are necessary or desirable to secure patent protection on said inventions, discoveries and applications throughout all countries of the world, and otherwise to do the necessary to give full effect to and to perfect the rights of the ASSIGNEE under this Assignment, including the execution, delivery and procurement of any and all further documents evidencing this assignment, transfer and sale as may be necessary or desirable.

We hereby covenant that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment.

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We further covenant that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said invention and said Letters Patent and legal equivalents as may be known and accessible to ASSIGNOR and will testify as to the same in any interference, litigation or proceeding related thereto and will promptly execute and deliver to ASSIGNEE or its legal representatives any and all papers, instruments or affidavits required to apply for, obtain, maintain, issue and enforce said application, said invention and said Letters Patent and said equivalents thereof which may be necessary or desirable to carry out the purposes thereof.

Date:	3/13/2018	8:04 PM PDT	Pieter van Rooyen			
			Pieter van Rooyen			
Witnesse	ed by:	Gavin kosviner		3/15/2018 6:11 PM	PDT	
- -	Signature		Dat	ie e		
_	Gavi	n Kosviner				
1	Print Name					

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Print Name

Date:	ulde	
	Michael Ruehle	
Witnessed by: Gavin Cosviner Signature		3/15/2018 6:11 PM PDT Date
Gavin Kosviner		
Print Name		
Date:3/15/2018 5:27 PM PDT	Rami Mehio	
	141111	
Witnessed by: Gavin Essuiner		3/15/2018 6:11 PM PDT
Signature		Date
Gavin Kosviner Print Name		
3/14/2018 8:06 AM PDT Date:	CNO	_
	Gavin Stone	
Witnessed by: Gavin kosviner		3/15/2018 6:11 PM PDT
Signature		Date
Gavin Kosviner		

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Date: _	3/13/2018 9:02 PM PDT	Mark Halim	
		Mark David Hahm	
Witnes	ssed by:		
	Gavin kosviner	3/15/2018 6:11 PM PDT	
	Signature Gavin Kosviner	Date	
	Print Name		
Date: _	3/14/2018 7:41 AM PDT	Eric Ojard	
Witnes	ssed by: Gawin koswiner	3/15/2018 6:11 PM F	TDY
	Signature Gavin Kosviner	Date	
	Print Name		
Date: _	3/14/2018 10:00 AM PDT	Amnon Ptashek	
Witnes	ssed by: Gawin koswiner	3/15/2018 6:11 PM PDT	

PATENT REEL: 048085 FRAME: 0552

Date

Docket No.: 49927-532C03US

RECORDED: 01/22/2019

Signature

Print Name

Gavin Kosviner