

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT5648169

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
COMPLETE GENOMICS, INC.	07/25/2019

RECEIVING PARTY DATA

Name:	BGI SHENZHEN CO., LTD.
Street Address:	MAIN BUILDING, BEISHAN INDUSTRIAL ZONE
Internal Address:	NO. 146 BEISHAN ROAD, YANTIAN DISTRICT
City:	SHENZHEN
State/Country:	CHINA
Postal Code:	518083

PROPERTY NUMBERS Total: 57

Property Type	Number
Application Number:	61885470
Application Number:	14503872
Application Number:	61869570
Application Number:	14467797
Application Number:	61916682
Application Number:	14571022
Application Number:	61986763
Application Number:	14701248
Application Number:	62171879
Application Number:	15171872
Application Number:	62067952
Application Number:	14921466
Application Number:	62117391
Application Number:	62194741
Application Number:	15040906
Application Number:	16297379
Application Number:	62206677
Application Number:	62298818
Application Number:	15440920

PATENT

Property Type	Number
Application Number:	62326620
Application Number:	62471547
Application Number:	16094845
Application Number:	62359641
Application Number:	62463182
Application Number:	15903424
Application Number:	62442263
Application Number:	62490511
Application Number:	15862566
Application Number:	62416813
Application Number:	15803077
Application Number:	62473970
Application Number:	62560585
Application Number:	62669890
Application Number:	16128120
Application Number:	62553614
Application Number:	16119450
Application Number:	62670627
Application Number:	62668757
Application Number:	62672501
Application Number:	62687159
Application Number:	62758071
Application Number:	62758317
PCT Number:	US2014058648
PCT Number:	US2014052572
PCT Number:	US2014070375
PCT Number:	US2016035730
PCT Number:	US2015057094
PCT Number:	US2016017390
PCT Number:	US2017028930
PCT Number:	US2017040917
PCT Number:	US2018012425
PCT Number:	US2017059908
PCT Number:	US2018023176
PCT Number:	US2018050437
PCT Number:	US2018049039
PCT Number:	US2019031894
PCT Number:	US2019031161

CORRESPONDENCE DATA**Fax Number:**

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.

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ATTORNEY DOCKET NUMBER:	092171
NAME OF SUBMITTER:	MARCOS VERA
SIGNATURE:	/Marcos Vera/
DATE SIGNED:	08/01/2019

Total Attachments: 7

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ASSIGNMENT

This Assignment, effective as of the last execution date written below is made

by

Complete Genomics, Inc., a corporation of the State of Delaware, having a place of business at 2904 Orchard Parkway, San Jose, CA 95134, United States of America, hereinafter referred to as "Assignor,"

to

BGI Shenzhen Co., Ltd., a corporation having a place of business at Main Building, Beishan Industrial Zone, No. 146 Beishan Road, Yantian District, Shenzhen 518083, P. R. China, hereinafter referred to as "Assignee,"

NOW THEREFORE, for good and valuable consideration, receipt of which is hereby acknowledged, Assignor agrees as follows:

1. Agrees to assign, transfer, convey, and sell; hereby assigns, transfers, conveys and sells; and has assigned, transferred, conveyed, and sold to Assignee any and all right, title and interest in and to:
 - (a) the patents and patent applications set forth on the attached Schedule A (hereinafter the Patents and the Patent Applications) and to intellectual property (including, without limitation, any innovation, information, invention, discovery, product, process, work or design) disclosed and claimed in the Patents and Patent Applications;
 - (b) the Patents and Patent Applications; any and all rights to claim priority to (i) the Patent Applications and (ii) any and all applications from which any Patent claims priority; any and all applications based on the Patents and Patent Applications, including, without limitation, any and all applications, anywhere in the world, that claim or are entitled to claim priority to any of the Patents or Patent Applications, whether provisional, non-provisional, design, divisional, continuation, continuation-in-part, registration, utility model, industrial design, reissue, renewal, substitute, extension, or for other rights based on any one or more of the Patents and Patent Applications;
 - (c) any and all patents (including, without limitation, all U.S. and non-U.S. patents, registrations, utility models, industrial designs, design patents, invention registrations) that are granted or issued upon, or that claim priority to, any Patent Application(s) described in subparagraphs (a) or (b) of this paragraph; and
 - (d) any and all claims for damages by reason of past infringement of any rights under (a), (b) or (c) of this paragraph (including provisional rights to reasonable royalties pursuant to 35 U.S.C. §154(d) or any analogous right outside the U.S.) and the right to sue for and collect such damages and royalties for Assignee's own use;

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2. Agrees to authorize and request the U.S. Patent and Trademark Office or any other U.S. or non-U.S. agency to issue to the Assignee any and all patent(s), or other rights or documents, resulting from the intellectual property, patent applications and patents described in Paragraph 1 of this Assignment.
3. Agrees to sign all papers and documents, including without limitation, applications, declarations, oaths and petitions, and, at the Assignee's expense, perform any other acts that are necessary in connection with prosecution of patent application(s) or intellectual property described in paragraph 1 of this Assignment and the enforcement of patent(s) or other rights resulting from such patent application(s) or intellectual property.
4. Agrees that the terms, covenants, and conditions of this Assignment shall inure to the benefit of the Assignee, its successor(s), assign(s), and other legal representative(s), and shall be binding upon Assignor, as well as its successor(s), assign(s), and other legal representative(s).
5. Promises and affirms that Assignor has not entered, and will not enter, into any assignment, contract, or understanding that conflicts with this Assignment.

Complete Genomics, Inc. (Assignor)

Date: July 25th 2019

By: 
Name: Avanindra Chaturvedi

Title: Chief Financial Officer

BGI Shenzhen Co., Ltd. (Assignee)

Date: _____

By: _____
Name: Wang Jian

Title: Chairman

ASSIGNMENT

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2. Agrees to authorize and request the U.S. Patent and Trademark Office or any other U.S. or non-U.S. agency to issue to the Assignee any and all patent(s), or other rights or documents, resulting from the intellectual property, patent applications and patents described in Paragraph 1 of this Assignment.
3. Agrees to sign all papers and documents, including without limitation, applications, declarations, oaths and petitions, and, at the Assignee's expense, perform any other acts that are necessary in connection with prosecution of patent application(s) or intellectual property described in paragraph 1 of this Assignment and the enforcement of patent(s) or other rights resulting from such patent application(s) or intellectual property.
4. Agrees that the terms, covenants, and conditions of this Assignment shall inure to the benefit of the Assignee, its successor(s), assign(s), and other legal representative(s), and shall be binding upon Assignor, as well as its successor(s), assign(s), and other legal representative(s).
5. Promises and affirms that Assignor has not entered, and will not enter, into any assignment, contract, or understanding that conflicts with this Assignment.

Complete Genomics, Inc. (Assignor)

Date: _____


By: _____

Name: Avanindra Chaturvedi

Title: Chief Financial Officer

BGI Shenzhen Co., Ltd. (Assignee)

Date: 2019.7.25

By:  _____

Name: Wang Jian

Title: Chairman

Schedule A

Title	Cn	Application No.	Filing Date	Pat. No.
PHASING AND LINKING PROCESSES TO IDENTIFY VARIATIONS IN A GENOME	US	61/885,470	10/1/2013	
PHASING AND LINKING PROCESSES TO IDENTIFY VARIATIONS IN A GENOME	PCT	PCT/US2014/058648	10/1/2014	
PHASING AND LINKING PROCESSES TO IDENTIFY VARIATIONS IN A GENOME	US	14/503,872	10/1/2014	
PHASING AND LINKING PROCESSES TO IDENTIFY VARIATIONS IN A GENOME	CN	201480054553.3	10/1/2014	ZL 201480054553.3
PHASING AND LINKING PROCESSES TO IDENTIFY VARIATIONS IN A GENOME	CN	201811311487.X	10/1/2014	
PHASING AND LINKING PROCESSES TO IDENTIFY VARIATIONS IN A GENOME	HK	16112965.8	10/1/2014	
LONG FRAGMENT DE NOVO ASSEMBLY USING SHORT READS	US	61/869,570	8/23/2013	
LONG FRAGMENT DE NOVO ASSEMBLY USING SHORT READS	PCT	PCT/US2014/052572	8/25/2014	
LONG FRAGMENT DE NOVO ASSEMBLY USING SHORT READS	CN	201480056125.4	8/25/2014	
LONG FRAGMENT DE NOVO ASSEMBLY USING SHORT READS	HK	16113276.0	8/25/2014	
LONG FRAGMENT DE NOVO ASSEMBLY USING SHORT READS	US	14/467,797	8/25/2014	
BASECALLER FOR DNA SEQUENCING USING MACHINE LEARNING	US	61/916,682	12/16/2013	
BASECALLER FOR DNA SEQUENCING USING MACHINE LEARNING	US	14/571,022	12/15/2014	10,068,053
BASECALLER FOR DNA SEQUENCING USING MACHINE LEARNING	PCT	PCT/US2014/070875	12/15/2014	
BASECALLER FOR DNA SEQUENCING USING MACHINE LEARNING	CN	201480068511.5	12/15/2014	
BASECALLER FOR DNA SEQUENCING USING MACHINE LEARNING	EP	14873415.7	12/15/2014	
BASECALLER FOR DNA SEQUENCING USING MACHINE LEARNING	HK	17103121.7	12/15/2014	
USING DOUBLET INFORMATION IN GENOME MAPPING AND ASSEMBLY	US	61/986,763	4/30/2014	
USING DOUBLET INFORMATION IN GENOME MAPPING AND ASSEMBLY	US	14/701,248	4/30/2015	
INTEGRATED SYSTEM FOR NUCLEIC ACID SEQUENCE AND ANALYSIS	US	62/171,879	6/5/2015	
INTEGRATED SYSTEM FOR NUCLEIC ACID SEQUENCE AND ANALYSIS	US	15/171,872	6/2/2016	
INTEGRATED SYSTEM FOR NUCLEIC ACID SEQUENCE AND ANALYSIS	PCT	PCT/US2016/055720	6/3/2016	
SIGNAL CONFINEMENT SEQUENCING (SCS) AND NUCLEOTIDE ANALOGUES FOR SIGNAL CONFINEMENT SEQUENCING	US	62/067,952	10/23/2014	
SIGNAL CONFINEMENT SEQUENCING (SCS) AND NUCLEOTIDE ANALOGUES FOR SIGNAL CONFINEMENT SEQUENCING	US	14/921,466	10/23/2015	10,190,162
SIGNAL CONFINEMENT SEQUENCING (SCS) AND NUCLEOTIDE ANALOGUES FOR SIGNAL CONFINEMENT SEQUENCING	PCT	PCT/US2015/057094	10/23/2015	
SIGNAL CONFINEMENT SEQUENCING (SCS) AND NUCLEOTIDE ANALOGUES FOR SIGNAL CONFINEMENT SEQUENCING	CN	201580057628.8	10/23/2015	
SIGNAL CONFINEMENT SEQUENCING (SCS) AND NUCLEOTIDE ANALOGUES FOR SIGNAL CONFINEMENT SEQUENCING	HK	18102434.0	10/23/2015	
CONTROLLED STAND DISPLACEMENT FOR PAIRED-END SEQUENCING ON DNA NANOBALLS	US	62/117,391	2/17/2015	
DNA SEQUENCING USING CONTROLLED STRAND DISPLACEMENT	US	62/194,741	7/20/2015	
DNA SEQUENCING USING CONTROLLED STRAND DISPLACEMENT	US	15/000,906	2/10/2016	10,227,647

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DNA SEQUENCING USING CONTROLLED STRAND DISPLACEMENT	US	16/297,379	3/8/2019
DNA SEQUENCING USING CONTROLLED STRAND DISPLACEMENT	PCT	PCT/US2016/017390	2/10/2016
DNA SEQUENCING USING CONTROLLED STRAND DISPLACEMENT	AU	2016220404	2/10/2016
DNA SEQUENCING USING CONTROLLED STRAND DISPLACEMENT	CA	2,976,786	2/10/2016
DNA SEQUENCING USING CONTROLLED STRAND DISPLACEMENT	CN	201680010807.0	2/10/2016
DNA SEQUENCING USING CONTROLLED STRAND DISPLACEMENT	EP	16752821.5	2/10/2016
DNA SEQUENCING USING CONTROLLED STRAND DISPLACEMENT	HK	18104730.7	2/10/2016
DNA SEQUENCING USING CONTROLLED STRAND DISPLACEMENT	JP	2017-560884	2/10/2016
TWO-ADAPTOR LIBRARY	US	62/296677	8/18/2015
AFFINITY TAG LABELED NUCLEOSIDES AND USES	US	62/298818	2/23/2016
AFFINITY TAG LABELED NUCLEOSIDES AND USES	US	15/440920	2/23/2017
REVERSIBLY BLOCKED NUCLEOSIDE ANALOGUES AND THEIR USE	US	62/326,620	4/22/2016
REVERSIBLY BLOCKED NUCLEOSIDE ANALOGUES AND THEIR USE	US	62/471,547	3/15/2017
REVERSIBLY BLOCKED NUCLEOSIDE ANALOGUES AND THEIR USE	PCT	PCT/US2017/028930	4/21/2017
REVERSIBLY BLOCKED NUCLEOSIDE ANALOGUES AND THEIR USE	CN	201780009912.5	4/21/2017
REVERSIBLY BLOCKED NUCLEOSIDE ANALOGUES AND THEIR USE	US	16/094,845	4/21/2017
FAST TARGET ENRICHMENT BY MULTIPLEXED RELAY PCR WITH MODIFIED BUBBLE PRIMERS	US	62/359,641	7/7/2016
FAST TARGET ENRICHMENT BY MULTIPLEXED RELAY PCR WITH MODIFIED BUBBLE PRIMERS	PCT	PCT/US2017/040917	7/6/2017
METHODS FOR HYBRIDIZATION BASED HOOK LIGATION	US	62/463,182	2/24/2017
METHODS FOR HYBRIDIZATION BASED HOOK LIGATION	US	15/903,424	2/23/2018
METHODS FOR HYBRIDIZATION BASED HOOK LIGATION	CN	201810156449.5	2/24/2018
STEPWISE SEQUENCING BY NON-LABELED REVERSIBLE TERMINATORS OR NATURAL NUCLEOTIDES	US	62/442,263	1/4/2017
STEPWISE SEQUENCING BY NON-LABELED REVERSIBLE TERMINATORS OR NATURAL NUCLEOTIDES	US	62/490,311	4/26/2017
STEPWISE SEQUENCING BY NON-LABELED REVERSIBLE TERMINATORS OR NATURAL NUCLEOTIDES	US	15/862,566	1/4/2018
STEPWISE SEQUENCING BY NON-LABELED REVERSIBLE TERMINATORS OR NATURAL NUCLEOTIDES	WO	PCT/US2018/012425	2/4/2018
STEPWISE SEQUENCING BY NON-LABELED REVERSIBLE TERMINATORS OR NATURAL NUCLEOTIDES	AU	2018205472	1/4/2018
STEPWISE SEQUENCING BY NON-LABELED REVERSIBLE TERMINATORS OR NATURAL NUCLEOTIDES	BR	BR1120190137157	1/4/2018
STEPWISE SEQUENCING BY NON-LABELED REVERSIBLE TERMINATORS OR NATURAL NUCLEOTIDES	CA	3,048,486	1/4/2018
STEPWISE SEQUENCING BY NON-LABELED REVERSIBLE TERMINATORS OR NATURAL NUCLEOTIDES	CN	PCT/US2018/012425	1/4/2018
STEPWISE SEQUENCING BY NON-LABELED REVERSIBLE TERMINATORS OR NATURAL NUCLEOTIDES	EP	PCT/US2018/012425	1/4/2018
STEPWISE SEQUENCING BY NON-LABELED REVERSIBLE TERMINATORS OR NATURAL NUCLEOTIDES	IN	201917027957	1/4/2018

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STEPWISE SEQUENCING BY NON-LABELED REVERSIBLE TERMINATORS OR NATURAL NUCLEOTIDES	IL	267835	11/4/2018
STEPWISE SEQUENCING BY NON-LABELED REVERSIBLE TERMINATORS OR NATURAL NUCLEOTIDES	JP	2019-536551	11/4/2018
STEPWISE SEQUENCING BY NON-LABELED REVERSIBLE TERMINATORS OR NATURAL NUCLEOTIDES	KR	PCT/US2018/012425	11/4/2018
STEPWISE SEQUENCING BY NON-LABELED REVERSIBLE TERMINATORS OR NATURAL NUCLEOTIDES	MX	MX/8/2019/008016	11/4/2018
STEPWISE SEQUENCING BY NON-LABELED REVERSIBLE TERMINATORS OR NATURAL NUCLEOTIDES	SG	11201905829J	11/4/2018
BIOSENSORS FOR BIOLOGICAL OR CHEMICAL ANALYSIS AND METHODS OF MANUFACTURING THE SAME	US	62/416,813	11/3/2016
BIOSENSORS FOR BIOLOGICAL OR CHEMICAL ANALYSIS AND METHODS OF MANUFACTURING THE SAME	US	15/803,077	11/3/2017
BIOSENSORS FOR BIOLOGICAL OR CHEMICAL ANALYSIS AND METHODS OF MANUFACTURING THE SAME	WO	PCT/US2017/059508	11/3/2017
BIOSENSORS FOR BIOLOGICAL OR CHEMICAL ANALYSIS AND METHODS OF MANUFACTURING THE SAME	BR	BR1120190089390	11/3/2017
BIOSENSORS FOR BIOLOGICAL OR CHEMICAL ANALYSIS AND METHODS OF MANUFACTURING THE SAME	CA	3,042,393	11/3/2017
BIOSENSORS FOR BIOLOGICAL OR CHEMICAL ANALYSIS AND METHODS OF MANUFACTURING THE SAME	CN	201780068138.7	11/3/2017
BIOSENSORS FOR BIOLOGICAL OR CHEMICAL ANALYSIS AND METHODS OF MANUFACTURING THE SAME	EP	17857617.7	11/3/2017
BIOSENSORS FOR BIOLOGICAL OR CHEMICAL ANALYSIS AND METHODS OF MANUFACTURING THE SAME	JP	2019-523854	11/3/2017
BIOSENSORS FOR BIOLOGICAL OR CHEMICAL ANALYSIS AND METHODS OF MANUFACTURING THE SAME	KR	10-2019-7015942	11/3/2017
BIOSENSORS FOR BIOLOGICAL OR CHEMICAL ANALYSIS AND METHODS OF MANUFACTURING THE SAME	MX	MX/8/2019/005163	11/3/2017
BIOSENSORS FOR BIOLOGICAL OR CHEMICAL ANALYSIS AND METHODS OF MANUFACTURING THE SAME	TW	106138140	11/3/2017
BIOSENSORS FOR BIOLOGICAL OR CHEMICAL ANALYSIS AND METHODS OF MANUFACTURING THE SAME	US	62/473,970	3/20/2017
BIOSENSORS FOR BIOLOGICAL OR CHEMICAL ANALYSIS AND METHODS OF MANUFACTURING THE SAME	TW	107112083	9/9/2018
BIOSENSORS FOR BIOLOGICAL OR CHEMICAL ANALYSIS AND METHODS OF MANUFACTURING THE SAME	WO	PCT/US2018/023176	9/19/2018
WAFER LEVEL SEQUENCING FLOW CELL FABRICATION	US	62/560,585	9/19/2017
WAFER LEVEL SEQUENCING FLOW CELL FABRICATION	US	62/669,930	5/10/2018
WAFER LEVEL SEQUENCING FLOW CELL FABRICATION	US	16/128,130	9/11/2018
WAFER LEVEL SEQUENCING FLOW CELL FABRICATION	WO	PCT/US2018/050437	9/11/2018
WAFER LEVEL SEQUENCING FLOW CELL FABRICATION	TW	107132586	9/17/2018
AN INJECTION MOLDED MICROFLUIDIC/FLUIDIC CARTRIDGE INTEGRATED WITH SILICON-BASED SENSOR	US	62/553,614	9/1/2017
AN INJECTION MOLDED MICROFLUIDIC/FLUIDIC CARTRIDGE INTEGRATED WITH SILICON-BASED SENSOR	TW	107130619	8/31/2018
AN INJECTION MOLDED MICROFLUIDIC/FLUIDIC CARTRIDGE INTEGRATED WITH SILICON-BASED SENSOR	US	16/119,450	8/31/2018
AN INJECTION MOLDED MICROFLUIDIC/FLUIDIC CARTRIDGE INTEGRATED WITH SILICON-BASED SENSOR	WO	PCT/US2018/049039	8/31/2018
POLYSUBSTRATES AND METHODS OF USE THEREOF	US	62/670,627	5/11/2018
POLYSUBSTRATES AND METHODS OF USE THEREOF	WO	PCT/US2019/031894	5/10/2019
SINGLE TUBE BEAD-BASED DNA CO-BARCODING FOR COST EFFECTIVE AND ACCURATE SEQUENCING, HAPLOTYPING, AND ASSE	US	62/668,757	5/8/2018

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SINGLE TUBE BEAD-BASED DNA CO-BARCODING FOR COST EFFECTIVE AND ACCURATE SEQUENCING, HAPLOTYPING, AND ASSE	US	62/672,501	5/16/2018
SINGLE TUBE BEAD-BASED DNA CO-BARCODING FOR COST EFFECTIVE AND ACCURATE SEQUENCING, HAPLOTYPING, AND ASSE	US	62/697,159	6/19/2018
SINGLE TUBE BEAD-BASED DNA CO-BARCODING FOR ACCURATE AND COST-EFFECTIVE SEQUENCING, HAPLOTYPING, AND ASSE	WO	PCT/US2019/051161	5/7/2019
SINGLE TUBE BEAD-BASED DNA CO-BARCODING FOR ACCURATE AND COST-EFFECTIVE SEQUENCING, HAPLOTYPING, AND ASSE	TW	108115891	5/8/2019
MULTILAYER ELECTRICAL CONNECTION FOR DIGITAL MICROFLUIDICS ON SUBSTRATES	US	62/758,071	11/9/2018
MULTILAYER ELECTRICAL CONNECTION FOR DIGITAL MICROFLUIDICS ON SUBSTRATES	US	62/758,071	11/9/2018
STEPWISE SEQUENCING BY NON-LABELLED REVERSIBLE TERMINATORS OR NATURAL NUCLEOTIDES	US	62/758,317	11/9/2018