

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT5517785

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT	
<b>NATURE OF CONVEYANCE:</b>	PATENT SECURITY AGREEMENT	
<b>CONVEYING PARTY DATA</b>		
<b>Name</b>		<b>Execution Date</b>
ARCHERDX		05/10/2019
<b>RECEIVING PARTY DATA</b>		
<b>Name:</b>	PERCEPTIVE CREDIT HOLDINGS II, LP, AS ADMINISTRATIVE AGENT	
<b>Street Address:</b>	51 ASTOR PLACE, 10TH FLOOR	
<b>City:</b>	NEW YORK	
<b>State/Country:</b>	NEW YORK	
<b>Postal Code:</b>	10003	
<b>PROPERTY NUMBERS Total: 53</b>		
<b>Property Type</b>	<b>Number</b>	
Application Number:	14605030	
Application Number:	15945557	
Application Number:	16336345	
Application Number:	16336348	
Application Number:	16336350	
Application Number:	16336344	
Application Number:	16336322	
Application Number:	16336342	
Application Number:	16336353	
Application Number:	15706642	
Application Number:	15706649	
Application Number:	15802408	
Application Number:	61931974	
Application Number:	61721843	
Application Number:	14440099	
Application Number:	62398841	
Application Number:	62399152	
Application Number:	62399157	
Application Number:	62399184	
Application Number:	62399195	

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Property Type	Number
Application Number:	62399205
Application Number:	62399211
Application Number:	62399219
Application Number:	62395339
Application Number:	62395347
Application Number:	62416677
Application Number:	16284030
Application Number:	14605363
Application Number:	15984612
Application Number:	61645364
Application Number:	61679302
Application Number:	13793564
Application Number:	15269448
Application Number:	61931943
Application Number:	14605482
Application Number:	61931959
PCT Number:	US2017059804
PCT Number:	US2015012842
PCT Number:	US2013068277
PCT Number:	US2017053097
PCT Number:	US2017053064
PCT Number:	US2017053050
PCT Number:	US2017053058
PCT Number:	US2017053102
PCT Number:	US2017053104
PCT Number:	US2017053106
PCT Number:	US2017053108
PCT Number:	US2017051924
PCT Number:	US2017051927
PCT Number:	US2017059800
PCT Number:	US2013030201
PCT Number:	US2015012841
PCT Number:	US2015012891

#### 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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**Address Line 4:** SAN FRANCISCO, CALIFORNIA 94105

<b>NAME OF SUBMITTER:</b>	GOLZAR AHMADI
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<b>SIGNATURE:</b>	/Golzar Ahmadi/
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<b>DATE SIGNED:</b>	05/10/2019
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**Total Attachments: 15**

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## PATENT SECURITY AGREEMENT

This PATENT SECURITY AGREEMENT, dated as of May 10, 2019 (“*Patent Security Agreement*”), made by each of the signatories hereto (together with any other entity that may become a party hereto as provided herein, the “*Patent Grantors*”), is in favor of Perceptive Credit Holdings II, LP, as administrative agent for the Secured Parties (in such capacity, together with its successors and assigns, the “*Administrative Agent*”).

### W I T N E S S E T H:

WHEREAS, the Patent Grantors are party to a Security Agreement dated as of May 10, 2019 (the “*Security Agreement*”) in favor of the Administrative Agent, pursuant to which the Patent Grantors are required to execute and deliver this Patent Security Agreement (capitalized terms used but not otherwise defined herein shall have the meanings given to them in the Security Agreement);

WHEREAS, pursuant to the terms of the Security Agreement, each Patent Grantor has created in favor of the Administrative Agent a security interest in, and the Administrative Agent has become a secured creditor with respect to, the Patent Collateral (as defined below);

NOW, THEREFORE, in consideration of the premises and to induce the Administrative Agent and the Lender to enter into the Credit Agreement and to induce the Lender to make their respective extensions of credit to the Borrower thereunder, each Patent Grantor hereby grants to the Administrative Agent, for the ratable benefit of the Secured Parties, a security interest in all of the following property now owned or at any time hereafter acquired by such Patent Grantor or in which such Patent Grantor now has or at any time in the future may acquire any right, title or interest (collectively, the “*Patent Collateral*”), as collateral security for the complete payment and performance when due (whether at the stated maturity, by acceleration or otherwise) of all Secured Obligations:

(a) all Patents of such Patent Grantor, including, without limitation, the registered and applied-for Patents of such Grantor listed on **Schedule 1** attached hereto;

(b) to the extent not covered by **clause (a)**, all Proceeds of any of the foregoing;  
and

(c) to the extent not covered by **clause (a)**, all causes of action arising prior to or after the date hereof for infringement of any of the Patents.

The Patent Collateral shall not include any Excluded Assets.

The security interest granted pursuant to this Patent Security Agreement is granted in conjunction with the security interest granted to the Administrative Agent pursuant to the Security Agreement, and the Patent Grantors hereby acknowledge and affirm that the rights and remedies of the Administrative Agent with respect to the security interest in the Patents made and granted hereby are more fully set forth in the Security Agreement. In the event that any provision

of this Patent Security Agreement is deemed to conflict with the Security Agreement, the provisions of the Security Agreement shall govern.

Each Patent Grantor hereby authorizes and requests that the Commissioner of Patents and Trademarks record this Patent Security Agreement.

**THIS PATENT SECURITY AGREEMENT AND THE RIGHTS AND OBLIGATIONS OF THE PARTIES UNDER THIS PATENT SECURITY AGREEMENT SHALL BE GOVERNED BY, AND CONSTRUED AND INTERPRETED IN ACCORDANCE WITH, THE LAW OF THE STATE OF NEW YORK.**

This Patent Security Agreement may be executed by one or more of the parties to this Patent Security Agreement on any number of separate counterparts, and all of said counterparts taken together shall be deemed to constitute one and the same instrument. Delivery of an executed signature page of this Patent Security Agreement by facsimile transmission or electronic transmission (in PDF format) shall be effective as delivery of a manually executed counterpart hereof.

*[Signature Pages Follow]*

IN WITNESS WHEREOF, each Patent Grantor has caused this PATENT SECURITY AGREEMENT to be executed and delivered by its duly authorized officer as of the date first above written.

ARCHERDX, INC.

By: 

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Title: Chief Executive Officer

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[Signature Page to Patent Security Agreement]

Accepted and Agreed:

PERCEPTIVE CREDIT HOLDINGS II, LP, as the Administrative Agent

By: PERCEPTIVE CREDIT OPPORTUNITIES GP, LLC, its general partner

By S. Dixit

Name: Sandeep Dixit

Title: Chief Credit Officer

By 

Name: Sam Chawla

Title: Portfolio Manager

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[Signature Page to Patent Security Agreement]

**PATENT**  
**REEL: 049149 FRAME: 0702**

# PATENTS

## Patent Registrations and Applications

Schedule 1

Technology	WGS Ref.	Country	Filing Date	Serial Number	Title
Isothermal	A1100.70000US01	US	01/26/2015	14/605,030	ISOTHERMAL METHODS AND RELATED COMPOSITIONS FOR PREPARING NUCLEIC ACIDS
Isothermal	A1100.70000AU00	AU	01/26/2015	2015209103	ISOTHERMAL METHODS AND RELATED COMPOSITIONS FOR PREPARING NUCLEIC ACIDS
Isothermal	A1100.70000CA00	CA	01/26/2015	2,938,141	ISOTHERMAL METHODS AND RELATED COMPOSITIONS FOR PREPARING NUCLEIC ACIDS
Isothermal	A1100.70000CN00	CN	01/26/2015	201580016111.4	ISOTHERMAL METHODS AND RELATED COMPOSITIONS FOR PREPARING NUCLEIC ACIDS
Isothermal	A1100.70000JP00	JP	01/26/2015	2016-549245	ISOTHERMAL METHODS AND RELATED COMPOSITIONS FOR PREPARING NUCLEIC ACIDS
Isothermal	A1100.70000EP00	EP	01/26/2015	15739782.9	ISOTHERMAL METHODS AND RELATED COMPOSITIONS FOR PREPARING NUCLEIC ACIDS
Lyoph. Reagents	A1100.70001US02	US	04/04/2018	15/945,557	METHODS AND KITS FOR NUCLEIC ACID SAMPLE

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					PREPARATION FOR SEQUENCING
Crossbow	A1100.70005US01	US	09/22/2017	16/336,345	THERMAL ASSEMBLIES FOR NUCLEIC ACID PREPARATION
Crossbow	A1100.70006US01	US	09/22/2017	16/336,348	MAGNETIC ASSEMBLY
Crossbow	A1100.70006EP00	EP	09/22/2017	to be confirmed	MAGNETIC ASSEMBLY
Crossbow (V3 AMP)	A1100.70007US01	US	09/22/2017	16/336,350	SYSTEM FOR NUCLEIC ACID PREPARATION
Crossbow (V3 AMP)	A1100.70007AU00	AU	09/22/2017	to be confirmed	SYSTEM FOR NUCLEIC ACID PREPARATION
Crossbow (V3 AMP)	A1100.70007CA00	CA	09/22/2017	to be confirmed	SYSTEM FOR NUCLEIC ACID PREPARATION
Crossbow (V3 AMP)	A1100.70007CN00	CN	09/22/2017	to be confirmed	SYSTEM FOR NUCLEIC ACID PREPARATION
Crossbow (V3 AMP)	A1100.70007EP00	EP	09/22/2017	to be confirmed	SYSTEM FOR NUCLEIC ACID PREPARATION
Crossbow (V3 AMP)	A1100.70007JP00	JP	09/22/2017	2019-515918	SYSTEM FOR NUCLEIC ACID PREPARATION
Crossbow	A1100.70008US01	US	09/22/2017	16/336,344	OPERATION OF A LIBRARY PREPARATION SYSTEM TO PERFORM A PROTOCOL ON A BIOLOGICAL SAMPLE

Crossbow	A1100.70008AU00	AU	09/22/2017	to be confirmed	OPERATION OF A LIBRARY PREPARATION SYSTEM TO PERFORM A PROTOCOL ON A BIOLOGICAL SAMPLE
Crossbow	A1100.70008CA00	CA	09/22/2017	to be confirmed	OPERATION OF A LIBRARY PREPARATION SYSTEM TO PERFORM A PROTOCOL ON A BIOLOGICAL SAMPLE
Crossbow	A1100.70008CN00	CN	09/22/2017	to be confirmed	OPERATION OF A LIBRARY PREPARATION SYSTEM TO PERFORM A PROTOCOL ON A BIOLOGICAL SAMPLE
Crossbow	A1100.70008EP00	EP	09/22/2017	to be confirmed	OPERATION OF A LIBRARY PREPARATION SYSTEM TO PERFORM A PROTOCOL ON A BIOLOGICAL SAMPLE
Crossbow	A1100.70008JP00	JP	09/22/2017	2019-516121	OPERATION OF A LIBRARY PREPARATION SYSTEM TO PERFORM A PROTOCOL ON A BIOLOGICAL SAMPLE
Crossbow	A1100.70010US01	US	09/22/2017	16/336,322	FLUIDIC SYSTEM AND RELATED METHODS
Crossbow	A1100.70011US01	US	09/22/2017	16/336,342	FLUIDIC SYSTEM AND RELATED METHODS
Crossbow	A1100.70011AU00	AU	09/22/2017	to be confirmed	FLUIDIC SYSTEM AND RELATED METHODS

Crossbow	A1100.70011CA00	CA	09/22/2017	to be confirmed	FLUIDIC SYSTEM AND RELATED METHODS
Crossbow	A1100.70011CN00	CN	09/22/2017	to be confirmed	FLUIDIC SYSTEM AND RELATED METHODS
Crossbow	A1100.70011EP00	EP	09/22/2017	to be confirmed	FLUIDIC SYSTEM AND RELATED METHODS
Crossbow	A1100.70011JP00	JP	09/22/2017	2019-516111	FLUIDIC SYSTEM AND RELATED METHODS
Crossbow	A1100.70012US01	US	09/22/2017	16/336,353	FLUIDIC SYSTEMS INCLUDING VESSELS AND RELATED METHODS
V3	A1100.70013US01	US	09/15/2017	15/706642	METHODS OF NUCLEIC ACID SAMPLE PREPARATION
V3	A1100.70013AU00	AU	09/15/2017	to be confirmed	METHODS OF NUCLEIC ACID SAMPLE PREPARATION
V3	A1100.70013CA00	CA	09/15/2017	to be confirmed	METHODS OF NUCLEIC ACID SAMPLE PREPARATION
V3	A1100.70013CN00	CN	09/15/2017	to be confirmed	METHODS OF NUCLEIC ACID SAMPLE PREPARATION
V3	A1100.70013EP00	EP	09/15/2017	to be confirmed	METHODS OF NUCLEIC ACID SAMPLE PREPARATION
V3	A1100.70013JP00	JP	09/15/2017	2019-514776	METHODS OF NUCLEIC ACID SAMPLE PREPARATION

V3 ctdDNA	A1100.70014US01	US	09/15/2017	15/706649	METHODS OF NUCLEIC ACID SAMPLE PREPARATION FOR ANALYSIS OF CELL-FREE DNA
V3 ctdDNA	A1100.70014AU00	AU	09/15/2017	to be confirmed	METHODS OF NUCLEIC ACID SAMPLE PREPARATION FOR ANALYSIS OF CELL-FREE DNA
V3 ctdDNA	A1100.70014CA00	CA	09/15/2017	to be confirmed	METHODS OF NUCLEIC ACID SAMPLE PREPARATION FOR ANALYSIS OF CELL-FREE DNA
V3 ctdDNA	A1100.70014CN00	CN	09/15/2017	to be confirmed	METHODS OF NUCLEIC ACID SAMPLE PREPARATION FOR ANALYSIS OF CELL-FREE DNA
V3 ctdDNA	A1100.70014EP00	EP	09/15/2017	to be confirmed	METHODS OF NUCLEIC ACID SAMPLE PREPARATION FOR ANALYSIS OF CELL-FREE DNA
V3 ctdDNA	A1100.70014JP00	JP	09/15/2017	2019-514776	METHODS OF NUCLEIC ACID SAMPLE PREPARATION FOR ANALYSIS OF CELL-FREE DNA
V3' Immunoverse	A1100.70015US01	US	11/02/2017	15/802408	METHODS OF NUCLEIC ACID SAMPLE PREPARATION FOR IMMUNE REPERTOIRE SEQUENCING
V3' Immunoverse	A1100.70015WO00	PCT	11/02/2017	PCT/US2017/059804	METHODS OF NUCLEIC ACID SAMPLE PREPARATION FOR IMMUNE REPERTOIRE SEQUENCING

Isothermal	A1100.70000US00	US	01/27/2014	61/931,974	ISOTHERMAL METHODS AND RELATED COMPOSITIONS FOR PREPARING NUCLEIC ACIDS
Isothermal	A1100.70000WO00	PCT	01/26/2015	PCT/US2015/012842	ISOTHERMAL METHODS AND RELATED COMPOSITIONS FOR PREPARING NUCLEIC ACIDS
Lyoph. Reagents	A1100.70001US00	US	11/02/2012	61/721,843	METHODS AND KITS FOR NUCLEIC ACID SAMPLE PREPARATION FOR SEQUENCING
Lyoph. Reagents	A1100.70001WO00	PCT	11/04/2013	PCT/US2013/068277	METHODS AND KITS FOR NUCLEIC ACID SAMPLE PREPARATION FOR SEQUENCING
Lyoph. Reagents	A1100.70001US01	US	05/01/2015	14/440,099	METHODS AND KITS FOR NUCLEIC ACID SAMPLE PREPARATION FOR SEQUENCING
Crossbow	A1100.70005US00	US	09/23/2016	62/398841	THERMAL ASSEMBLIES FOR NUCLEIC ACID PREPARATION
Crossbow	A1100.70005WO00	PCT	09/22/2017	PCT/US2017/053097	THERMAL ASSEMBLIES FOR NUCLEIC ACID PREPARATION
Crossbow	A1100.70006US00	US	09/23/2016	62/399152	MAGNETIC ASSEMBLY
Crossbow	A1100.70006WO00	PCT	09/22/2017	PCT/US2017/053064	MAGNETIC ASSEMBLY

Crossbow	A1100.70007US00	US	09/23/2016	62/399157	SYSTEM FOR NUCLEIC ACID PREPARATION
Crossbow	A1100.70007WO00	PCT	09/22/2017	PCT/US2017/053050	SYSTEM FOR NUCLEIC ACID PREPARATION
Crossbow	A1100.70008US00	US	09/23/2016	62/399184	OPERATION OF A LIBRARY PREPARATION SYSTEM TO PERFORM A PROTOCOL ON A BIOLOGICAL SAMPLE
Crossbow	A1100.70008WO00	PCT	09/22/2017	PCT/US2017/053058	OPERATION OF A LIBRARY PREPARATION SYSTEM TO PERFORM A PROTOCOL ON A BIOLOGICAL SAMPLE
Crossbow	A1100.70009US00	US	09/23/2016	62/399195	ROTATIONAL AND MICROFLUIDIC ELEMENTS FOR A SYSTEM
Crossbow	A1100.70009WO00	PCT	09/22/2017	PCT/US2017/053102	ROTATIONAL AND MICROFLUIDIC ELEMENTS FOR A SYSTEM
Crossbow	A1100.70010US00	US	09/23/2016	62/399205	FLUIDIC SYSTEM AND RELATED METHODS
Crossbow	A1100.70010WO00	PCT	09/22/2017	PCT/US2017/053104	FLUIDIC SYSTEM AND RELATED METHODS
Crossbow	A1100.70011US00	US	09/23/2016	62/399211	FLUIDIC SYSTEM AND RELATED METHODS

Crossbow	A1100.70011W000	PCT	09/22/2017	PCT/US2017/053106	FLUIDIC SYSTEM AND RELATED METHODS
Crossbow	A1100.70012US00	US	09/23/2016	62/399219	FLUIDIC SYSTEMS INCLUDING VESSELS AND RELATED METHODS
Crossbow	A1100.70012W000	PCT	09/22/2017	PCT/US2017/053108	FLUIDIC SYSTEMS INCLUDING VESSELS AND RELATED METHODS
V3	A1100.70013US00	US	09/15/2016	62/395339	METHODS OF NUCLEIC ACID SAMPLE PREPARATION
V3	A1100.70013W000	PCT	09/15/2017	PCT/US2017/051924	METHODS OF NUCLEIC ACID SAMPLE PREPARATION
V3 ctDNA	A1100.70014US00	US	09/15/2016	62/395347	METHODS OF NUCLEIC ACID SAMPLE PREPARATION FOR ANALYSIS OF CELL-FREE DNA
V3 ctDNA	A1100.70014W000	PCT	09/15/2017	PCT/US2017/051927	METHODS OF NUCLEIC ACID SAMPLE PREPARATION FOR ANALYSIS OF CELL-FREE DNA
V3 <sup>+</sup> Immunoverse	A1100.70015US00	US	11/02/2016	62/416677	METHODS OF NUCLEIC ACID SAMPLE PREPARATION FOR IMMUNE REPERTOIRE SEQUENCING
V3 <sup>+</sup> Immunoverse	A1100.70016W000	PCT	11/02/2017	PCT/US2017/059800	METHODS OF NUCLEIC ACID SAMPLE PREPARATION FOR

					IMMUNE REPERTOIRE SEQUENCING
Technology	WGS Ref.	Country	Filing Date	Serial Number	Title
V2A	A1100.70002US02	US	01/26/2015	16/284,030	METHODS FOR DETERMINING A NUCLEOTIDE SEQUENCE
V2B	A1100.70003US01	US	01/26/2015	14/605,363	METHODS OF PREPARING NUCLEIC ACIDS FOR SEQUENCING
V2B	A1100.70003EP00	EP	01/26/2015	15740988.9	METHODS OF PREPARING NUCLEIC ACIDS FOR SEQUENCING
V2B	A1100.70003CN00	CN	01/26/2015	201580016908.4	METHODS OF PREPARING NUCLEIC ACIDS FOR SEQUENCING
V2B	A1100.70003JP00	JP	01/26/2015	2016-549249	METHODS OF PREPARING NUCLEIC ACIDS FOR SEQUENCING
V2B	A1100.70003AU00	AU	01/26/2015	2015209079	METHODS OF PREPARING NUCLEIC ACIDS FOR SEQUENCING
V2B	A1100.70003CA00	CA	01/26/2015	2,938,080	METHODS OF PREPARING NUCLEIC ACIDS FOR SEQUENCING
V1	A1100.70004US04	US	09/19/2016	15/984,612	METHODS FOR DETERMINING A NUCLEOTIDE SEQUENCE

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					CONTIGUOUS TO A KNOWN TARGET NUCLEOTIDE SEQUENCE
V1	A1100.70004EP00	EP	03/11/2013	13787745.2	METHODS FOR DETERMINING A NUCLEOTIDE SEQUENCE
V1	A1100.70004JP00	JP	03/11/2013	2015-511444	METHODS FOR DETERMINING A NUCLEOTIDE SEQUENCE
V1	A1100.70004CN01	CN	12/14/2017	201711336949.9	METHODS FOR DETERMINING A NUCLEOTIDE SEQUENCE
V1	A1100.70004CA00	CA	03/11/2013	2,873,176	METHODS FOR DETERMINING A NUCLEOTIDE SEQUENCE
V1	A1100.70004US00	US	05/10/2012	61/645,364	A NEXT-GENERATION SEQUENCING ASSAY FOR TARGETED SEQUENCING
V1	A1100.70004WO00	PCT	03/11/2013	PCT/US2013/030201	METHODS FOR DETERMINING A NUCLEOTIDE SEQUENCE
V1	A1100.70004US01	US	08/03/2012	61/679,302	METHODS FOR DETERMINING A NUCLEOTIDE SEQUENCE
V1	A1100.70004US02	US	03/11/2013	13/793,564	METHODS FOR DETERMINING A NUCLEOTIDE SEQUENCE CONTIGUOUS TO A KNOWN TARGET NUCLEOTIDE SEQUENCE
V1	A1100.70004US03	US	09/19/2016	15/269448	METHODS FOR DETERMINING A NUCLEOTIDE SEQUENCE

					CONTIGUOUS TO A KNOWN TARGET NUCLEOTIDE SEQUENCE
V1	A1100.70004CN00	CN	03/11/2013	2013800371005.5	METHODS FOR DETERMINING A NUCLEOTIDE SEQUENCE
V2A	A1100.70002US00	US	01/27/2014	61/931,943	METHODS FOR DETERMINING A NUCLEOTIDE SEQUENCE
V2A	A1100.70002WO00	PCT	01/26/2015	PCT/US2015/012841	METHODS FOR DETERMINING A NUCLEOTIDE SEQUENCE
V2A	A1100.70002US01	US	01/26/2015	14/605,482	METHODS FOR DETERMINING A NUCLEOTIDE SEQUENCE
V2B	A1100.70003US00	US	01/27/2014	61/931,959	METHODS OF PREPARING NUCLEIC ACIDS FOR SEQUENCING
V2B	A1100.70003WO00	PCT	01/26/2015	PCT/US2015/012891	METHODS OF PREPARING NUCLEIC ACIDS FOR SEQUENCING

**PATENT**

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**RECORDED: 05/10/2019**