

PATENT ASSIGNMENT COVER SHEET

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Assignment ID: PATI91298

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
Illumina Cambridge Limited	11/01/2023
RECEIVING PARTY DATA	
Company Name:	ILLUMINA, INC.
Street Address:	5200 Illumina Way
City:	San Diego
State/Country:	CALIFORNIA
Postal Code:	92122
PROPERTY NUMBERS Total: 2	
Property Type	Number
PCT Number:	US2245306
Application Number:	17957659
CORRESPONDENCE DATA	
Fax Number:	8582024545
<i>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.</i>	
Phone:	8582024500
Email:	myamamoto1@illumina.com,illuminadocket@illumina.foundationip.com
Correspondent Name:	ILLUMINA, INC.
Address Line 1:	5200 Illumina Way
Address Line 4:	San Diego, CALIFORNIA 92122
ATTORNEY DOCKET NUMBER:	IP-2165-US_PCT
NAME OF SUBMITTER:	Makiko Yamamoto
SIGNATURE:	Makiko Yamamoto
DATE SIGNED:	03/13/2024
Total Attachments: 27	
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ASSIGNMENT FROM BUSINESS ENTITY

WHEREAS, ILLUMINA CAMBRIDGE LIMITED, having a place of business at 19 Granta Park, Great Abington, Cambridge, CB21 6DF, United Kingdom (hereinafter "ASSIGNOR"), represents and warrants that it has received an assignment or assignments of right, title, and interest to certain new and useful improvements for which the application(s) for Letters Patents listed in the attached Appendix (hereinafter "the Patent Application(s)") has or have been filed:

WHEREAS, ILLUMINA, INC., a Delaware corporation having a place of business at 5200 Illumina Way, San Diego, California 92122, United States of America (hereinafter "ASSIGNEE") is desirous of acquiring the entire right, title, and interest in and to the inventions disclosed in the Patent Application(s) listed in the attached Appendix;

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, ASSIGNOR hereby further acknowledges that it has sold, assigned, and transferred, and by these presents does hereby sell, assign, and transfer, unto ASSIGNEE, its successors, legal representatives, and assigns, the entire right, title, and interest throughout the world in, to, and under the said improvements, and the Patent Application(s) and all Patents (hereinafter "the Patents") that may be granted thereon, and all divisions, continuations, reissues, reexaminations, renewals, and extensions thereof, and all rights of priority under International Conventions and applications for Letters Patent that may hereafter be filed for said improvements or for the Patent Application(s) in any country or countries foreign to the United States; and ASSIGNOR hereby authorizes and requests the Commissioner of Patents of the United States, and any Official of any country foreign to the United States, whose duty it is to issue patents on applications as aforesaid, to issue all Letters Patent for said improvements and all Letters Patents resulting from the Patent Application(s) to ASSIGNEE, its successors, legal representatives, and assigns, in accordance with the terms of this Agreement.

ASSIGNOR does hereby sell, assign, transfer, and convey to ASSIGNEE, its successors, legal representatives, and assigns all claims for damages and all remedies arising out of any violation of the rights assigned hereby that may have accrued prior to the date of assignment to ASSIGNEE, or may accrue hereafter, including, but not limited to, the right to sue for, collect, and retain damages for past infringements of the Patents before or after issuance;

ASSIGNOR hereby covenants and agrees that it will communicate to ASSIGNEE, its successors, legal representatives, and assigns any facts known to ASSIGNOR respecting the Patent Application(s) immediately upon becoming aware of those facts, and that it will testify in any legal proceeding involving any of the Patent Application(s), will sign all lawful papers, execute all divisional, continuing, and reissue applications, make all rightful oaths, and will generally do everything possible to aid ASSIGNEE, its successors, legal representatives, and assigns to obtain and enforce the Patent Application(s) in all countries.

ASSIGNMENT FROM BUSINESS ENTITY

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this 1st day of November 2023.

ILLUMINA CAMBRIDGE LIMITED
19 Granta Park, Great Abington
Cambridge, CB21 6DF
United Kingdom

By: 

Name: Roland Schwillinski

Title: Vice President, Global IP and Litigation of
Illumina, Inc., the parent company of
Illumina Cambridge Limited

RECEIVED AND HEREBY ACCEPTED BY ILLUMINA, INC., a Delaware corporation

Date: 1 November 2023



Name: Roland Schwillinski

Title: Vice President, Global IP and Litigation

CALIFORNIA ACKNOWLEDGMENT

CIVIL CODE § 1189

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

State of California

County of San Diego }

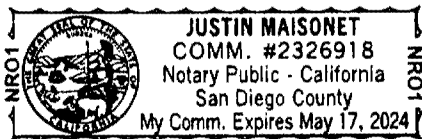
On November 15, 2023 before me, Justin Maisonet, Notary Public
Date Here Insert Name and Title of the Officer

personally appeared Roland Schwillinski
Name(s) of Signer(s)

who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.



Place Notary Seal and/or Stamp Above

Signature [Signature]
Signature of Notary Public

OPTIONAL

Completing this information can deter alteration of the document or fraudulent reattachment of this form to an unintended document.

Description of Attached Document

Title or Type of Document: Assignment From Business Entity - Cambridge

Document Date: November 1, 2023 Number of Pages: 26

Signer(s) Other Than Named Above: _____

Capacity(ies) Claimed by Signer(s)

Signer's Name: _____

☐ Corporate Officer – Title(s): _____

☐ Partner – ☐ Limited ☐ General

☐ Individual ☐ Attorney in Fact

☐ Trustee ☐ Guardian or Conservator

☐ Other: _____

Signer is Representing: _____

Signer's Name: _____

☐ Corporate Officer – Title(s): _____

☐ Partner – ☐ Limited ☐ General

☐ Individual ☐ Attorney in Fact

☐ Trustee ☐ Guardian or Conservator

☐ Other: _____

Signer is Representing: _____

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APPENDIX (Patent Applications)

Docket No.	Title	Country Name	Filing Date	Application No.
IP-1759-PCT	COMPOSITIONS, METHODS, KITS, CARTRIDGES, AND SYSTEMS FOR SEQUENCING REAGENTS	PCT	06/22/2022	PCT/US22/73080
IP-1759-PRV	COMPOSITIONS, METHODS, KITS, CARTRIDGES, AND SYSTEMS FOR SEQUENCING REAGENTS	United States of America	06/23/2021	63/213,995
IP-1759-US	COMPOSITIONS, METHODS, KITS, CARTRIDGES, AND SYSTEMS FOR SEQUENCING REAGENTS	United States of America	06/22/2022	17/808,161
IP-1853-PRV	AMPLIFICATION TECHNIQUES FOR NUCLEIC ACID CHARACTERIZATION	United States of America	04/29/2021	63/181,769
IP-1853-PCT	AMPLIFICATION TECHNIQUES FOR NUCLEIC ACID CHARACTERIZATION	PCT	04/28/2022	PCT/US22/26777
IP-1853-US	AMPLIFICATION TECHNIQUES FOR NUCLEIC ACID CHARACTERIZATION	United States of America	04/28/2022	18/558,057
IP-1959-PCT	RESYNTHESIS KITS AND METHODS	PCT	09/26/2023	PCT/EP23/76558
IP-1959-PRV	RESYNTHESIS KITS AND METHODS	United States of America	09/26/2022	63/410,162
IP-1959-US	RESYNTHESIS KITS AND METHODS	United States of America	09/25/2023	18/473,971
IP-1963-PCT	POLYMERASES, COMPOSITIONS, AND METHODS OF USE	PCT	06/02/2022	PCT/EP22/65121
IP-1963-PRV	POLYMERASES, COMPOSITIONS, AND METHODS OF USE	United States of America	06/03/2021	63/196,299
IP-1963-PRV2	POLYMERASES, COMPOSITIONS, AND METHODS OF USE	United States of America	08/14/2021	63/233,243
IP-1963-US	POLYMERASES, COMPOSITIONS, AND METHODS OF USE	United States of America	06/01/2022	17/829,866
IP-2066-PRV	IDENTIFICATION AND MAPPING OF METHYLATION SITES	United States of America	06/05/2023	63/506,181
IP-2070-PCT	METHODS OF DETECTING METHYLCYTOSINE AND HYDROXYMETHYLCYTOSINE BY SEQUENCING	PCT	01/18/2023	PCT/US23/11047
IP-2070-PRV	METHODS OF DETECTING METHYLCYTOSINE AND HYDROXYMETHYLCYTOSINE BY SEQUENCING	United States of America	01/20/2022	63/301,370

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Docket No.	Title	Country Name	Filing Date	Application No.
IP-2072-PCT	METHODS AND COMPOSITIONS FOR IDENTIFYING METHYLATED CYTOSINES	PCT	08/16/2022	PCT/US22/74999
IP-2072-PRV	METHODS AND COMPOSITIONS FOR IDENTIFYING METHYLATED CYTOSINES	United States of America	08/17/2021	63/234,183
IP-2080-PCT	THIRD DNA BASE PAIR SITE-SPECIFIC DNA DETECTION	PCT	07/28/2023	PCT/US23/28999
IP-2080-PRV	THIRD DNA BASE PAIR SITE-SPECIFIC DNA DETECTION	United States of America	08/19/2022	63/399,339
IP-2120-PCT	MACHINE-LEARNING MODEL FOR GENERATING CONFIDENCE CLASSIFICATIONS FOR GENOMIC COORDINATES	PCT	06/24/2022	PCT/US22/73160
IP-2120-PRV	DEFINING REPORTABLE RANGES FOR CLINICAL VARIANT CALLING APPLICATIONS	United States of America	06/29/2021	63/216,382
IP-2120-US	MACHINE-LEARNING MODEL FOR GENERATING CONFIDENCE CLASSIFICATIONS FOR GENOMIC COORDINATES	United States of America	06/24/2022	17/808,902
IP-2121-PCT	LINEAR FOURIER FIDUCIAL	PCT	06/24/2022	PCT/EP22/67335
IP-2121-PRV	LINEAR FOURIER FIDUCIAL	United States of America	06/25/2021	63/215,152
IP-2121-PRV2	LINEAR FOURIER FIDUCIAL	United States of America	06/30/2021	63/216,898
IP-2121-TW	LINEAR FOURIER FIDUCIAL	Taiwan	06/23/2022	111123430
IP-2121-US	LINEAR FOURIER FIDUCIAL	United States of America	02/04/2022	17/592,895
IP-2123-PCT	COMPOSITIONS AND METHODS FOR NUCLEIC ACID SEQUENCING	PCT	05/30/2023	PCT/EP23/64466
IP-2123-PRV	COMPOSITIONS AND METHODS FOR NUCLEIC ACID SEQUENCING	United States of America	05/31/2022	63/347,152
IP-2123-PRV2	COMPOSITIONS AND METHODS FOR NUCLEIC ACID SEQUENCING	United States of America	02/21/2023	63/486,082
IP-2123-US	COMPOSITIONS AND METHODS FOR NUCLEIC ACID SEQUENCING	United States of America	05/30/2023	18/325,610
IP-2124-PCT	LABELED AVIDIN AND METHODS FOR SEQUENCING	PCT	03/27/2023	PCT/EP23/57854
IP-2124-PRV	LABELED AVIDIN AND METHODS FOR SEQUENCING	United States of America	03/28/2022	63/324,564
IP-2124-US	LABELED AVIDIN AND METHODS FOR SEQUENCING	United States of America	03/27/2023	18/190,330

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Docket No.	Title	Country Name	Filing Date	Application No.
IP-2130-PCT	SYSTEMS AND METHODS FOR SEQUENCING NUCLEOTIDES USING TWO OPTICAL CHANNELS	PCT	05/26/2022	PCT/US22/31152
IP-2130-US	SYSTEMS AND METHODS FOR SEQUENCING NUCLEOTIDES USING TWO OPTICAL CHANNELS	United States of America	06/03/2021	17/338,590
IP-2145-PCT	DEVICES INCLUDING OSMOTICALLY BALANCED BARRIERS, AND METHODS OF MAKING AND USING THE SAME	PCT	03/29/2023	PCT/EP23/58184
IP-2145-PRV	DEVICES INCLUDING OSMOTICALLY BALANCED BARRIERS, AND METHODS OF MAKING AND USING THE SAME	United States of America	03/31/2022	63/325,723
IP-2146-PCT	FLUIDIC DEVICES INCLUDING FLUIDIC CHANNELS, AND METHODS OF MAKING THE SAME	PCT	05/13/2022	PCT/US22/29187
IP-2146-PRV	FLUIDIC DEVICES INCLUDING FLUIDIC CHANNELS, AND METHODS OF MAKING THE SAME	United States of America	05/28/2021	63/194,330
IP-2146-TW	FLUIDIC DEVICES INCLUDING FLUIDIC CHANNELS, AND METHODS OF MAKING THE SAME	Taiwan	05/26/2022	111119590
IP-2146-US	FLUIDIC DEVICES INCLUDING FLUIDIC CHANNELS, AND METHODS OF MAKING THE SAME	United States of America	05/13/2022	17/743,969
IP-2148-PCT	HYDROGEL-FREE SURFACE FUNCTIONALIZATION FOR SEQUENCING	PCT	06/13/2022	PCT/US22/33257
IP-2148-PRV	HYDROGEL-FREE SURFACE FUNCTIONALIZATION FOR SEQUENCING	United States of America	06/15/2021	63/210,888
IP-2148-US	HYDROGEL-FREE SURFACE FUNCTIONALIZATION FOR SEQUENCING	United States of America	06/13/2022	17/838,986
IP-2151-PCT	FLOW CELLS	PCT	06/30/2022	PCT/US22/35781
IP-2151-PRV	REUSABLE FLOW CELLS	United States of America	07/02/2021	63/218,091
IP-2151-US	FLOW CELLS	United States of America	06/30/2022	17/855,325
IP-2152-PCT	FLOW CELLS AND METHODS FOR MAKING THE SAME	PCT	05/26/2022	PCT/US22/31122
IP-2152-PCT2	FLOW CELLS AND METHODS FOR MAKING THE SAME	PCT	05/26/2022	PCT/US22/31125
IP-2152-PRV	FLOW CELLS AND METHODS FOR MAKING THE SAME	United States of America	05/31/2021	63/195,124

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Docket No.	Title	Country Name	Filing Date	Application No.
IP-2152-PRV2	FLOW CELLS AND METHODS FOR MAKING THE SAME	United States of America	05/31/2021	63/195,126
IP-2152-US	FLOW CELLS AND METHODS FOR MAKING THE SAME	United States of America	05/26/2022	17/825,945
IP-2152-US2	FLOW CELLS AND METHODS FOR MAKING THE SAME	United States of America	05/26/2022	17/825,989
IP-2157-PRV	INTERLOCKING NUCLEIC ACIDS FOR TARGET HYBRIDIZATION	United States of America	04/15/2021	63/175,253
IP-2157-PRV2	INTERLOCKING NUCLEIC ACIDS FOR TARGET HYBRIDIZATION	United States of America	04/19/2022	63/332,508
IP-2157-PRV3	INTERLOCKING NUCLEIC ACIDS FOR TARGET HYBRIDIZATION	United States of America	06/26/2023	63/510,212
IP-2158-PCT	OLIGO-MODIFIED NUCLEOTIDE ANALOGUES FOR NUCLEIC ACID PREPARATION	PCT	05/26/2022	PCT/US22/31150
IP-2158-PRV	OLIGO-MODIFIED NUCLEOTIDE ANALOGUES FOR NUCLEIC ACID PREPARATION	United States of America	05/28/2021	63/194,681
IP-2160-PCT	BLOCKER METHODS	PCT	09/30/2022	PCT/EP22/77386
IP-2160-PRV	BLOCKER METHODS	United States of America	09/30/2021	63/250,455
IP-2163-PCT	IMAGE-BASED VARIANT PATHOGENICITY DETERMINATION	PCT	01/27/2023	PCT/US23/61479
IP-2163-PRV	IMAGE-BASED VARIANT PATHOGENICITY DETERMINATION	United States of America	01/28/2022	63/304,544
IP-2163-US	IMAGE-BASED VARIANT PATHOGENICITY DETERMINATION	United States of America	01/27/2023	18/160,855
IP-2164-PCT	PROTEIN STRUCTURE-BASED PROTEIN LANGUAGE MODELS	PCT	10/05/2022	PCT/US22/45825
IP-2164-PRV	PROTEIN STRUCTURE-BASED PROTEIN LANGUAGE MODELS	United States of America	10/06/2021	63/253,122
IP-2164-US	PROTEIN STRUCTURE-BASED PROTEIN LANGUAGE MODELS	United States of America	11/22/2021	17/533,091
IP-2165-PCT	APPARATUS AND METHODS FOR TRANSMITTING LIGHT	PCT	09/30/2022	PCT/US22/45306
IP-2165-TW	APPARATUS AND METHODS FOR TRANSMITTING LIGHT	Taiwan	09/29/2022	111137014

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Docket No.	Title	Country Name	Filing Date	Application No.
IP-2165-US	APPARATUS AND METHODS FOR TRANSMITTING LIGHT	United States of America	09/30/2022	17/957,659
IP-2179-PCT	POLYNUCLEOTIDE SEQUENCING	PCT	09/28/2022	PCT/EP22/76989
IP-2179-PRV	POLYNUCLEOTIDE SEQUENCING	United States of America	09/30/2021	63/250,516
IP-2179-US	POLYNUCLEOTIDE SEQUENCING	United States of America	09/26/2022	17/952,414
IP-2183-PCT	COMPOSITIONS AND METHODS FOR IMPROVING SEQUENCING SIGNALS	PCT	03/29/2023	PCT/EP23/58142
IP-2183-PRV	COMPOSITIONS AND METHODS FOR IMPROVING SEQUENCING SIGNALS	United States of America	03/31/2022	63/362,322
IP-2183-US	COMPOSITIONS AND METHODS FOR IMPROVING SEQUENCING SIGNALS	United States of America	03/29/2023	18/192,288
IP-2189-PCT	MULTIBAND SCANNING AND FIBER BUNDLE TO ENABLE REDUCED LIGHT SOURCE INTENSITY AND IMPROVED IMAGING QUALITY	PCT	06/27/2023	PCT/US23/26352
IP-2189-PRV	MULTIBAND SCANNING AND FIBER BUNDLE TO ENABLE REDUCED LIGHT SOURCE INTENSITY AND IMPROVED IMAGING QUALITY	United States of America	07/01/2022	63/357,943
IP-2189-TW	MULTIBAND SCANNING AND FIBER BUNDLE TO ENABLE REDUCED LIGHT SOURCE INTENSITY AND IMPROVED IMAGING QUALITY	Taiwan	06/29/2023	112124279
IP-2194-PCT	LIGHT-ACTIVATED COUPLING OF OLIGONUCLEOTIDES TO POLYMERS	PCT	07/29/2022	PCT/US22/74294
IP-2194-PRV	LIGHT-ACTIVATED COUPLING OF OLIGONUCLEOTIDES TO POLYMERS	United States of America	07/30/2021	63/227,776
IP-2194-TW	LIGHT-ACTIVATED COUPLING OF OLIGONUCLEOTIDES TO POLYMERS	Taiwan	07/29/2022	111128601
IP-2194-US	LIGHT-ACTIVATED COUPLING OF OLIGONUCLEOTIDES TO POLYMERS	United States of America	07/29/2022	17/815,979
IP-2195-PCT	NANOPORE DEVICES INCLUDING BARRIERS USING DIBLOCK OR TRIBLOCK COPOLYMERS, AND METHODS OF MAKING THE SAME	PCT	03/30/2023	PCT/EP23/58383
IP-2195-PRV	NANOPORE DEVICES INCLUDING BARRIERS USING DIBLOCK OR TRIBLOCK COPOLYMERS, AND METHODS OF MAKING THE SAME	United States of America	03/31/2022	63/325,726

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Docket No.	Title	Country Name	Filing Date	Application No.
IP-2195-US	NANOPORE DEVICES INCLUDING BARRIERS USING DIBLOCK OR TRIBLOCK COPOLYMERS, AND METHODS OF MAKING THE SAME	United States of America	03/30/2023	18/193,492
IP-2196-PCT	CURABLE RESIN COMPOSITIONS	PCT	09/22/2022	PCT/EP22/76316
IP-2196-PCT2	CURABLE RESIN COMPOSITIONS	PCT	09/22/2022	PCT/EP22/76319
IP-2196-PRV	CURABLE RESIN COMPOSITIONS	United States of America	09/24/2021	63/248,179
IP-2196-PRV2	CURABLE RESIN COMPOSITIONS	United States of America	09/24/2021	63/248,182
IP-2196-TW	CURABLE RESIN COMPOSITIONS	Taiwan	09/22/2022	111135912
IP-2196-TW2	CURABLE RESIN COMPOSITIONS	Taiwan	09/22/2022	111135913
IP-2196-US	CURABLE RESIN COMPOSITIONS	United States of America	09/22/2022	17/934,394
IP-2196-US2	CURABLE RESIN COMPOSITIONS	United States of America	09/22/2022	17/934,406
IP-2197-PCT	REAGENT COMPOSITIONS, METHODS, CARTRIDGES, AND SYSTEMS	PCT	09/16/2022	PCT/IB2022/058779
IP-2197-PRV	REAGENT COMPOSITIONS, METHODS, CARTRIDGES, AND SYSTEMS	United States of America	09/17/2021	63/245,467
IP-2197-US	REAGENT COMPOSITIONS, METHODS, CARTRIDGES, AND SYSTEMS	United States of America	09/16/2022	17/932,709
IP-2198-PCT	3'-BLOCKED NUCLEOTIDES, METHODS OF DEBLOCKING THE SAME, AND METHODS OF SYNTHESIZING POLYNUCLEOTIDES USING THE SAME	PCT	05/16/2023	PCT/US23/22435
IP-2198-PRV3	3'-BLOCKED NUCLEOTIDES, METHODS OF DEBLOCKING THE SAME, AND METHODS OF SYNTHESIZING POLYNUCLEOTIDES USING THE SAME	United States of America	05/27/2022	63/346,750
IP-2207-PCT	FLOW CELLS WITH DARK QUENCHER	PCT	09/28/2022	PCT/EP22/76920
IP-2207-PRV	FLOW CELLS WITH DARK QUENCHER	United States of America	09/29/2021	63/249,841
IP-2207-US	FLOW CELLS WITH DARK QUENCHER	United States of America	09/28/2022	17/936,200

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Docket No.	Title	Country Name	Filing Date	Application No.
IP-2211-PCT	PRIMER SETS AND METHODS AND KITS INCORPORATING THE PRIMER SETS	PCT	11/01/2022	PCT/US22/79075
IP-2211-PRV	PRIMER SETS AND METHODS AND KITS INCORPORATING THE PRIMER SETS	United States of America	11/02/2021	63/274,768
IP-2216-PCT	PERIODATE COMPOSITIONS AND METHODS FOR CHEMICAL CLEAVAGE OF SURFACE-BOUND POLYNUCLEOTIDES	PCT	12/16/2022	PCT/US22/81764
IP-2216-PRV	PERIODATE COMPOSITIONS AND METHODS FOR CHEMICAL CLEAVAGE OF SURFACE-BOUND OLIGONUCLEOTIDES	United States of America	12/20/2021	63/291,862
IP-2218-PCT	PERIODATE COMPOSITIONS AND METHODS FOR CHEMICAL CLEAVAGE OF SURFACE-BOUND POLYNUCLEOTIDES	PCT	12/16/2022	PCT/US22/81798
IP-2218-PRV	PERIODATE COMPOSITIONS AND METHODS FOR CHEMICAL CLEAVAGE OF SURFACE-BOUND OLIGONUCLEOTIDES	United States of America	12/20/2021	63/291,883
IP-2221-PCT	DNA ORIGAMI STRUCTURE AND PROTEIN NANOPORE CONSTRUCT	PCT	04/24/2023	PCT/US23/19596
IP-2221-PRV	DNA ORIGAMI STRUCTURE AND PROTEIN NANOPORE CONSTRUCT	United States of America	04/26/2022	63/363,634
IP-2230-PRV	SEQUENCING TEMPLATES COMPRISING MULTIPLE INSERTS	United States of America	10/15/2021	63/256,040
IP-2240-PCT	AMPHIPHILIC BLOCK-CO-POLYMERS CROSS-LINKED WITH DIFFERENT CROSS-LINKERS CONSECUTIVELY FORMING A CROSS-LINKING HIERARCHY	PCT	03/30/2023	PCT/EP23/58396
IP-2240-PRV	BARRIERS INCLUDING MOLECULES COVALENTLY BONDED TO AMPHIPHILIC MOLECULES, AND METHODS OF MAKING THE SAME	United States of America	03/31/2022	63/325,734
IP-2240-US	BARRIERS INCLUDING MOLECULES COVALENTLY BONDED TO AMPHIPHILIC MOLECULES, AND METHODS OF MAKING THE SAME	United States of America	03/30/2023	18/193,504
IP-2241-PCT	METHODS FOR INSERTING NANOPORES INTO POLYMERIC MEMBRANES USING CHAOTROPIC SOLVENTS	PCT	03/30/2023	PCT/EP23/58343
IP-2241-PRV	METHODS FOR INSERTING NANOPORES INTO POLYMERIC MEMBRANES USING CHAOTROPIC SOLVENTS	United States of America	03/31/2022	63/325,735

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Docket No.	Title	Country Name	Filing Date	Application No.
IP-2241-US	METHODS FOR INSERTING NANOPORES INTO POLYMERIC MEMBRANES USING CHAOTROPIC SOLVENTS	United States of America	03/30/2023	18/193,512
IP-2242-PRV	FLOW CELLS WITH TRANSPOSOME COMPLEXES	United States of America	12/23/2021	63/293,494
IP-2246-PCT	PAIRED-END SEQUENCING	PCT	03/15/2023	PCT/EP23/56648
IP-2247-PCT	METHODS FOR MAKING FLOW CELL SURFACES	PCT	03/16/2023	PCT/EP23/56729
IP-2247-PRV	METHODS FOR MAKING FLOW CELL SURFACES	United States of America	03/22/2022	63/322,584
IP-2247-US	METHODS FOR MAKING FLOW CELL SURFACES	United States of America	03/16/2023	18/185,208
IP-2248-PCT	FUNCTIONALIZED NANOSTRUCTURES AND FLOW CELL DEPRESSIONS	PCT	03/01/2023	PCT/EP23/55109
IP-2248-PRV	FUNCTIONALIZED NANOSTRUCTURES AND FLOW CELL DEPRESSIONS	United States of America	03/01/2022	63/315,353
IP-2248-US	FUNCTIONALIZED NANOSTRUCTURES AND FLOW CELL DEPRESSIONS	United States of America	03/01/2023	18/176,761
	FACILITATING SECURE EXECUTION OF EXTERNAL WORKFLOWS FOR GENOMIC SEQUENCING DIAGNOSTICS	PCT	09/30/2022	PCT/US22/77405
IP-2250-PCT	FACILITATING SECURE EXECUTION OF EXTERNAL WORKFLOWS FOR GENOMIC SEQUENCING DIAGNOSTICS	United States of America	12/23/2021	63/293,587
IP-2250-PRV	FACILITATING SECURE EXECUTION OF EXTERNAL WORKFLOWS FOR GENOMIC SEQUENCING DIAGNOSTICS	United States of America	09/26/2022	17/935,476
IP-2250-US	IMAGING SYSTEMS AND RELATED METHODS	PCT	12/27/2022	PCT/US22/54084
IP-2254-PCT	IMAGING SYSTEMS AND RELATED METHODS	United States of America	12/30/2021	63/294,968
IP-2254-PRV	WAX-MICROSHERE MATRIX COMPOSITIONS AND METHODS OF MAKING AND USING THE SAME	PCT	12/20/2022	PCT/IB22/62557
IP-2255-PCT				

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Docket No.	Title	Country Name	Filing Date	Application No.
IP-2255-PRV	WAX-MICROSHERE MATRIX COMPOSITIONS AND METHODS OF MAKING AND USING THE SAME	United States of America	12/21/2021	63/292,185
IP-2255-US	WAX-MICROSHERE MATRIX COMPOSITIONS AND METHODS OF MAKING AND USING THE SAME	United States of America	12/20/2022	18/068,868
IP-2258-PCT	COMPOSITIONS AND METHODS FOR REDUCING PHOTO DAMAGE DURING SEQUENCING	PCT	09/28/2023	PCT/EP23/76986
IP-2258-PRV	COMPOSITIONS AND METHODS FOR REDUCING PHOTO DAMAGE DURING SEQUENCING	United States of America	09/30/2022	63/412,024
IP-2258-US	COMPOSITIONS AND METHODS FOR REDUCING PHOTO DAMAGE DURING SEQUENCING	United States of America	09/28/2023	18/476,911
IP-2259-PCT	METHODS OF NUCLEIC ACID SEQUENCING USING SURFACE-BOUND PRIMERS	PCT	12/28/2022	PCT/EP22/87978
IP-2259-PRV	SURFACE PRIMERS FOR SEQUENCING	United States of America	12/29/2021	63/294,622
IP-2259-PRV2	SURFACE PRIMERS FOR SEQUENCING	United States of America	09/19/2022	63/408,026
IP-2259-US	METHODS OF NUCLEIC ACID SEQUENCING USING SURFACE-BOUND PRIMERS	United States of America	12/28/2022	18/089,867
IP-2261-PCT	DYNAMIC GRAPHICAL STATUS SUMMARIES FOR NUCELOTIDE SEQUENCING	PCT	09/30/2022	PCT/US22/77422
IP-2261-PRV	DYNAMIC GRAPHICAL STATUS SUMMARIES FOR NUCELOTIDE SEQUENCING	United States of America	12/23/2021	63/293,562
IP-2261-US	DYNAMIC GRAPHICAL STATUS SUMMARIES FOR NUCELOTIDE SEQUENCING	United States of America	09/29/2022	17/936,722
IP-2263-PCT	SUBSTRATE WITH ORTHOGONALLY FUNCTIONAL NANODOMAINS	PCT	03/20/2023	PCT/US23/64690

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Docket No.	Title	Country Name	Filing Date	Application No.
IP-2263-PRV	SUBSTRATE WITH ORTHOGONALLY FUNCTIONAL NANODOMAINS	United States of America	03/22/2022	63/269,757
IP-2263-US	SUBSTRATE WITH ORTHOGONALLY FUNCTIONAL NANODOMAINS	United States of America	03/20/2023	18/186,647
IP-2270-PCT	PREDICTING VARIANT PATHOGENICITY FROM EVOLUTIONARY CONSERVATION USING THREE-DIMENSIONAL (3D) PROTEIN STRUCTURE VOXELS	PCT	10/05/2022	PCT/US22/45824
IP-2270-PRV	PREDICTING VARIANT PATHOGENICITY FROM EVOLUTIONARY CONSERVATION USING THREE-DIMENSIONAL (3D) PROTEIN STRUCTURE VOXELS	United States of America	11/19/2021	63/281,579
IP-2270-US	PREDICTING VARIANT PATHOGENICITY FROM EVOLUTIONARY CONSERVATION USING THREE-DIMENSIONAL (3D) PROTEIN STRUCTURE VOXELS	United States of America	09/26/2022	17/953,286
IP-2271-PCT	COMBINED AND TRANSFER LEARNING OF A VARIANT PATHOGENICITY PREDICTOR USING GAPPED AND NON-GAPPED PROTEIN SAMPLES	PCT	10/05/2022	PCT/US22/45823
IP-2271-PRV	COMBINED AND TRANSFER LEARNING OF A VARIANT PATHOGENICITY PREDICTOR USING GAPPED AND NON-GAPPED PROTEIN SAMPLES	United States of America	11/19/2021	63/281,592
IP-2271-US	COMBINED AND TRANSFER LEARNING OF A VARIANT PATHOGENICITY PREDICTOR USING GAPPED AND NON-GAPPED PROTEIN SAMPLES	United States of America	09/26/2022	17/953,293
IP-2278-PCT	ALTERED CYTIDINE DEAMINASES AND METHODS OF USE	PCT	04/07/2023	PCT/US23/17846
IP-2278-PRV	ALTERED CYTIDINE DEAMINASES AND METHODS OF USE	United States of America	04/07/2022	63/328,444
IP-2280-PCT	METHODS FOR CHEMICAL CLEAVAGE OF SURFACE-BOUND POLYNUCLEOTIDES	PCT	03/28/2023	PCT/EP23/57956
IP-2280-PRV	METHODS FOR CHEMICAL CLEAVAGE OF SURFACE-BOUND POLYNUCLEOTIDES	United States of America	03/30/2022	63/325,394
IP-2280-US	METHODS FOR CHEMICAL CLEAVAGE OF SURFACE-BOUND POLYNUCLEOTIDES	United States of America	03/28/2023	18/191,299

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Docket No.	Title	Country Name	Filing Date	Application No.
IP-2281-PCT	CHROMENOQUINOLINE DYES AND USES IN SEQUENCING	PCT	03/27/2023	PCT/EP23/57863
IP-2281-PRV	CHROMENOQUINOLINE DYES AND USES IN SEQUENCING	United States of America	03/29/2022	63/325,057
IP-2281-US	CHROMENOQUINOLINE DYES AND USES IN SEQUENCING	United States of America	03/27/2023	18/190,531
IP-2282-PCT	ENHANCING CLUSTERING EFFICIENCY AND KINETICS	PCT	06/06/2023	PCT/US23/68007
IP-2282-PRV	ENHANCING CLUSTERING EFFICIENCY AND KINETICS	United States of America	06/07/2022	63/349,907
IP-2282-US	ENHANCING CLUSTERING EFFICIENCY AND KINETICS	United States of America	06/06/2023	18/330,298
IP-2286-PCT	BARRIERS INCLUDING BIOLOGICAL NANOPORE FOR DNA SEQUENCING, THE BARRIERS BEING MADE OF CO-POLYMERS WITH END AND/OR MIDDLE GROUPS, AND METHODS OF MAKING THE SAME	PCT	03/30/2023	PCT/EP23/58395
IP-2286-PRV	NANOPORE DEVICES INCLUDING BARRIERS USING POLYMERS WITH END GROUPS, AND METHODS OF MAKING THE SAME	United States of America	03/31/2022	63/325,737
IP-2286-US	NANOPORE DEVICES INCLUDING BARRIERS USING POLYMERS WITH END GROUPS, AND METHODS OF MAKING THE SAME	United States of America	03/30/2023	18/193,517
IP-2287-PCT	HYBRID CLUSTERING	PCT	12/15/2022	PCT/US22/53005
IP-2287-PRV	HYBRID CLUSTERING	United States of America	12/16/2021	63/290,183
IP-2288-PCT	PAIRED-END RE-SYNTHESIS USING BLOCKED P5 PRIMERS	PCT	03/30/2023	PCT/EP23/58307
IP-2288-PRV	PAIRED-END RE-SYNTHESIS USING BLOCKED P5 PRIMERS	United States of America	03/31/2022	63/325,752
IP-2288-PRV2	PAIRED-END RE-SYNTHESIS USING BLOCKED P5 PRIMERS	United States of America	07/26/2022	63/392,225
IP-2288-US	PAIRED-END RE-SYNTHESIS USING BLOCKED P5 PRIMERS	United States of America	03/30/2023	18/193,480

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Docket No.	Title	Country Name	Filing Date	Application No.
IP-2289-PCT	ORTHOGONAL HYBRIDIZATION	PCT	12/15/2022	PCT/US22/53002
IP-2289-PRV	ORTHOGONAL HYBRIDIZATION	United States of America	12/17/2021	63/290,852
IP-2290-PCT	BARRIERS INCLUDING CROSS-LINKED AMPHIPHILIC MOLECULES, AND METHODS OF MAKING THE SAME	PCT	03/30/2023	PCT/EP23/58387
IP-2290-PRV	BARRIERS INCLUDING CROSS-LINKED AMPHIPHILIC MOLECULES, AND METHODS OF MAKING THE SAME	United States of America	03/31/2022	63/325,741
IP-2290-US	BARRIERS INCLUDING CROSS-LINKED AMPHIPHILIC MOLECULES, AND METHODS OF MAKING THE SAME	United States of America	03/30/2023	18/193,522
IP-2291-PCT	SYSTEMS AND METHODS FOR ITERATIVE AND SCALABLE POPULATION-SCALE VARIANT ANALYSIS	PCT	12/15/2022	PCT/US22/53036
IP-2291-PRV	SYSTEMS AND METHODS FOR ITERATIVE AND SCALABLE POPULATION-SCALE VARIANT ANALYSIS	United States of America	12/15/2021	63/361,386
IP-2291-PRV2	SYSTEMS AND METHODS FOR ITERATIVE AND SCALABLE POPULATION-SCALE VARIANT ANALYSIS	United States of America	03/31/2022	63/326,227
IP-2291-US	SYSTEMS AND METHODS FOR ITERATIVE AND SCALABLE POPULATION-SCALE VARIANT ANALYSIS	United States of America	12/15/2022	18/082,229
IP-2294-PCT	AMPHIPHILIC POLYMERS TO BE USED IN BARRIERS AND PREPARATION THEREOF, BARRIERS WITH NANOPORES AND PREPARATION THEREOF	PCT	03/30/2023	PCT/EP23/58393
IP-2294-PRV	NANOPORE DEVICES INCLUDING BARRIERS USING AMPHIPHILIC UNITS, AND METHODS OF MAKING THE SAME	United States of America	03/31/2022	63/325,743
IP-2296-PCT	MASK PATTERNS FOR PROTEIN LANGUAGE MODELS FOR PREDICTING PATHOGENICITY	PCT	12/23/2022	PCT/US22/82368
IP-2296-PRV	PERIODIC MASK PATTERN FOR REVELATION LANGUAGE MODELS	United States of America	12/29/2021	63/294,813

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Docket No.	Title	Country Name	Filing Date	Application No.
IP-2296-US1	MASK PATTERN FOR PROTEIN LANGUAGE MODELS	United States of America	10/27/2022	17/975,536
IP-2296-US2	PATHOGENICITY LANGUAGE MODEL	United States of America	10/27/2022	17/975,547
IP-2297-PCT	VARIANT CALLING WITHOUT A TARGET REFERENCE GENOME	PCT	12/28/2022	PCT/US22/82462
IP-2297-PRV	CLASSIFYING MILLIONS OF VARIANTS OF UNCERTAIN SIGNIFICANCE USING PRIMATE SEQUENCING AND DEEP LEARNING	United States of America	12/29/2021	63/294,816
IP-2297-US1	VARIANT CALLING WITHOUT A TARGET REFERENCE GENOME	United States of America	09/23/2022	17/952,192
IP-2297-US2	QUALITY DETECTION OF VARIANT CALLING USING A MACHINE LEARNING CLASSIFIER	United States of America	09/23/2022	17/952,194
IP-2297-US3	UNIQUE MAPPER TOOL FOR EXCLUDING REGIONS WITHOUT ONE-TO-ONE MAPPING BETWEEN A SET OF TWO REFERENCE GENOMES	United States of America	09/23/2022	17/952,198
IP-2301-PCT	INTER-MODEL PREDICTION SCORE RECALIBRATION	PCT	12/28/2022	PCT/US22/82464
IP-2301-PRV	INTER-MODEL PREDICTION SCORE RECALIBRATION	United States of America	12/29/2021	63/294,828
IP-2301-US1	INTER-MODEL PREDICTION SCORE RECALIBRATION	United States of America	09/16/2022	17/947,053
IP-2301-US2	INTER-MODEL PREDICTION SCORE RECALIBRATION DURING TRAINING	United States of America	09/16/2022	17/947,068
IP-2302-PCT	SPECIES PROXIMITY-AWARE EVOLUTIONARY CONSERVATION PROFILES	PCT	12/27/2022	PCT/US22/82423
IP-2302-PRV	SPECIES-DIFFERENTIABLE EVOLUTIONARY PROFILES	United States of America	12/29/2021	63/294,830
IP-2302-US	SPECIES PROXIMITY-AWARE EVOLUTIONARY CONSERVATION PROFILES	United States of America	10/27/2022	17/975,563
IP-2306-PCT	APPARATUS AND METHOD FOR CAPTURING VIBRATION IN SYSTEM	PCT	02/24/2023	PCT/US23/13783
IP-2306-PRV	APPARATUS AND METHOD FOR CAPTURING VIBRATION IN SYSTEM	United States of America	02/28/2022	63/314,540
IP-2306-US	APPARATUS AND METHOD FOR CAPTURING VIBRATION IN SYSTEM	United States of America	02/24/2023	18/113,815

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Docket No.	Title	Country Name	Filing Date	Application No.
IP-2310-PCT	METHODS OF MODIFYING METHYLCYTOSINE OR DERIVATIVE THEREOF USING A NUCLEOPHILIC MOLECULE, AND METHODS OF USING THE SAME TO DETECT THE METHYLCYTOSINE OR DERIVATIVE THEREOF IN A POLYNUCLEOTIDE	PCT	08/25/2023	PCT/EP23/73380
IP-2310-PRV	METHODS OF MODIFYING METHYLCYTOSINE OR DERIVATIVE THEREOF USING A NUCLEOPHILIC MOLECULE, AND METHODS OF USING THE SAME TO DETECT THE METHYLCYTOSINE OR DERIVATIVE THEREOF IN A POLYNUCLEOTIDE	United States of America	08/25/2022	63/401,020
IP-2311-PCT	COMPOSITIONS INCLUDING AQUEOUS AMINE BORANE COMPLEXES AND POLYNUCLEOTIDES, AND METHODS OF USING THE SAME TO DETECT METHYLCYTOSINE OR HYDROXYMETHYLCYTOSINE	PCT	03/29/2023	PCT/EP23/58202
IP-2311-PRV	COMPOSITIONS INCLUDING AQUEOUS AMINE BORANE COMPLEXES AND POLYNUCLEOTIDES, AND METHODS OF USING THE SAME TO DETECT METHYLCYTOSINE OR HYDROXYMETHYLCYTOSINE	United States of America	03/31/2022	63/325,744
IP-2312-PRV	BORANES ON SOLID SUPPORTS	United States of America	12/16/2022	63/387,906
IP-2317-PCT	POLARIZATION BASED SENSING	PCT	04/20/2023	PCT/US23/66004
IP-2317-PRV	POLARIZATION BASED SENSING	United States of America	04/22/2022	63/363,439
IP-2318-PRV	APTAMER DYNAMIC RANGE COMPRESSION AND DETECTION TECHNIQUES	United States of America	04/08/2022	63/329,101
IP-2323-PCT	MACHINE-LEARNING MODELS FOR DETECTING AND ADJUSTING VALUES FOR NUCLEOTIDE METHYLATION LEVELS	PCT	02/22/2023	PCT/US23/63048
IP-2323-PRV	MACHINE-LEARNING MODELS FOR DETECTING AND ADJUSTING VALUES FOR NUCLEOTIDE METHYLATION LEVELS	United States of America	02/25/2022	63/268,550
IP-2323-US	MACHINE-LEARNING MODELS FOR DETECTING AND ADJUSTING VALUES FOR NUCLEOTIDE METHYLATION LEVELS	United States of America	02/22/2023	18/172,821
IP-2332-PRV2	APTAMER DISCOVERY AND SELECTION TECHNIQUES	United States of America	04/13/2023	63/495,937

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Docket No.	Title	Country Name	Filing Date	Application No.
IP-2337-PCT	SEQUENCING NANOPARTICLES AND METHODS OF MAKING THE SAME	PCT	06/28/2023	PCT/EP23/67570
IP-2337-PRV	SEQUENCING NANOPARTICLES AND METHODS OF MAKING THE SAME	United States of America	06/30/2022	63/357,479
IP-2337-US	SEQUENCING NANOPARTICLES AND METHODS OF MAKING THE SAME	United States of America	06/28/2023	18/343,696
IP-2338-PCT	IN-TIP MAGNETIC-BASED MAGNETIC BEAD PROCESSING	PCT	06/30/2023	PCT/US23/26700
IP-2338-PRV	IN-TIP MAGNETIC-BASED MAGNETIC BEAD PROCESSING	United States of America	06/30/2022	63/357,210
IP-2338-US	IN-TIP MAGNETIC-BASED MAGNETIC BEAD PROCESSING	United States of America	06/30/2023	18/216,859
IP-2340-PRV	ALTERED CYTIDINE DEAMINASES AND METHODS OF USE FOR MAPPING 5-HYDROXYMETHYL CYTOSINE	United States of America	06/08/2022	63/350,068
IP-2342-PCT	PROBES FOR DEPLETING ABUNDANT SMALL NONCODING RNA	PCT	10/05/2023	PCT/US23/76101
IP-2342-PRV	PROBES FOR DEPLETING ABUNDANT SMALL NONCODING RNA	United States of America	10/06/2022	63/378,610
IP-2345-PRV	APPARATUS AND METHODS FOR IMAGING	United States of America	08/30/2022	63/402,397
IP-2346-PCT	PREPARATION OF SIZE-CONTROLLED NUCLEIC ACID FRAGMENTS	PCT	05/17/2023	PCT/US23/22553
IP-2346-PRV	PREPARATION OF SIZE-CONTROLLED NUCLEIC ACID FRAGMENTS	United States of America	05/18/2022	63/343,261
IP-2347-PCT	FLUORESCENT DYES CONTAINING FUSED TETRACYCLIC BIS-BORON HETEROCYCLE AND USES IN SEQUENCING	PCT	06/27/2023	PCT/EP23/67536
IP-2347-PRV	FLUORESCENT DYES CONTAINING FUSED TETRACYCLIC BIS-BORON HETEROCYCLE AND USES IN SEQUENCING	United States of America	06/28/2022	63/356,412
IP-2347-US	FLUORESCENT DYES CONTAINING FUSED TETRACYCLIC BIS-BORON HETEROCYCLE AND USES IN SEQUENCING	United States of America	06/27/2023	18/342,064
IP-2355-PCT	METHODS AND SYSTEMS FOR ENCAPSULATING LYOPHILISED MICROSPHERES	PCT	04/26/2023	PCT/IB23/54319

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Docket No.	Title	Country Name	Filing Date	Application No.
IP-2355-PRV	METHODS AND SYSTEMS FOR ENCAPSULATING LYOPHILISED MICROSPHERES	United States of America	04/29/2022	63/336,433
IP-2355-US	METHODS AND SYSTEMS FOR ENCAPSULATING LYOPHILISED MICROSPHERES	United States of America	04/26/2023	18/307,376
IP-2364-PCT	VARIANT CALLING OF HIGH COVERAGE SAMPLES WITH A RESTRICTED MEMORY	PCT	06/23/2023	PCT/US23/26089
IP-2364-PRV	VARIANT CALLING OF HIGH COVERAGE SAMPLES WITH A RESTRICTED MEMORY	United States of America	06/24/2022	63/355,541
IP-2364-US	VARIANT CALLING OF HIGH COVERAGE SAMPLES WITH A RESTRICTED MEMORY	United States of America	06/23/2023	18/213,507
IP-2365-PCT	NANOSEL PARTICLES HAVING DUAL FUNCTIONALITY AND TEMPERATURE RESPONSIVENESS FOR PARTICLE CLUSTERING IN NUCLEIC ACID SEQUENCING SYSTEMS	PCT	09/18/2023	PCT/US23/74507
IP-2365-PRV	NANOSEL PARTICLES HAVING DUAL FUNCTIONALITY AND TEMPERATURE RESPONSIVENESS FOR PARTICLE CLUSTERING IN NUCLEIC ACID SEQUENCING SYSTEMS	United States of America	09/19/2022	63/407,852
IP-2365-US	NANOSEL PARTICLES HAVING DUAL FUNCTIONALITY AND TEMPERATURE RESPONSIVENESS FOR PARTICLE CLUSTERING IN NUCLEIC ACID SEQUENCING SYSTEMS	United States of America	09/18/2023	18/469,440
IP-2367-PCT	FLOW CELLS	PCT	08/24/2023	PCT/EP23/73202
IP-2367-PRV	FLOW CELLS	United States of America	08/26/2022	63/373,610
IP-2367-US	FLOW CELLS	United States of America	08/24/2023	18/455,090
IP-2369-PCT	REUSABLE FLOW CELLS HAVING SIGNAL INTENSITY RETENTION, METHODS OF RETAINING SIGNAL INTENSITY IN REUSABLE FLOW CELLS AND REAGENTS AND KITS THEREFOR	PCT	09/12/2023	PCT/GB23/52356

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Docket No.	Title	Country Name	Filing Date	Application No.
IP-2369-PRV	REUSABLE FLOW CELLS HAVING SIGNAL INTENSITY RETENTION, METHODS OF RETAINING SIGNAL INTENSITY IN REUSABLE FLOW CELLS AND REAGENTS AND KITS THEREFOR	United States of America	09/16/2022	63/407,324
IP-2369-US	REUSABLE FLOW CELLS HAVING SIGNAL INTENSITY RETENTION, METHODS OF RETAINING SIGNAL INTENSITY IN REUSABLE FLOW CELLS AND REAGENTS AND KITS THEREFOR	United States of America	09/12/2023	18/367,308
IP-2372-PCT	PREPARATION OF LONG READ NUCLEIC ACID LIBRARIES	PCT	05/25/2023	PCT/US23/67467
IP-2373-PCT	PHOTO-SWITCHABLE CHEMISTRY FOR REVERSIBLE HYDROGELS AND REUSABLE FLOW CELLS	PCT	10/06/2023	PCT/US23/76256
IP-2373-PRV	PHOTO-SWITCHABLE CHEMISTRY FOR REVERSIBLE HYDROGELS AND REUSABLE FLOW CELLS	United States of America	10/10/2022	63/378,943
IP-2373-US	PHOTO-SWITCHABLE CHEMISTRY FOR REVERSIBLE HYDROGELS AND REUSABLE FLOW CELLS	United States of America	10/06/2023	18/482,417
IP-2374-PCT	NANOIMPRINT LITHOGRAPHY RESIN COMPOSITION	PCT	06/28/2023	PCT/EP23/67577
IP-2374-PRV	NANOIMPRINT LITHOGRAPHY RESIN COMPOSITION	United States of America	06/30/2022	63/357,501
IP-2374-US	NANOIMPRINT LITHOGRAPHY RESIN COMPOSITION	United States of America	06/28/2023	18/343,713
IP-2375-PCT	TARGET-VARIANT-REFERENCE PANEL FOR IMPUTING TARGET VARIANTS	PCT	09/27/2023	PCT/US23/75280
IP-2375-PRV	TARGET-VARIANT-REFERENCE PANEL FOR IMPUTING TARGET VARIANTS	United States of America	09/29/2022	63/377,682
IP-2375-US	TARGET-VARIANT-REFERENCE PANEL FOR IMPUTING TARGET VARIANTS	United States of America	09/27/2023	18/476,206
IP-2379-PCT	NANOPARTICLE WITH POLYNUCLEOTIDE BINDING SITE AND METHOD OF MAKING THEREOF	PCT	09/15/2023	PCT/IB23/59187

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Docket No.	Title	Country Name	Filing Date	Application No.
IP-2379-PRV	NANOPARTICLE WITH POLYNUCLEOTIDE BINDING SITE AND METHOD OF MAKING THEREOF	United States of America	09/16/2022	63/375,965
IP-2379-US	NANOPARTICLE WITH POLYNUCLEOTIDE BINDING SITE AND METHOD OF MAKING THEREOF	United States of America	09/15/2023	18/467,770
IP-2380-PCT	POLYMERASES, COMPOSITIONS, AND METHODS OF USE	PCT	09/29/2023	PCT/EP23/77133
IP-2380-PRV	POLYMERASES, COMPOSITIONS, AND METHODS OF USE	United States of America	09/30/2022	63/412,241
IP-2380-PRV2	POLYMERASES, COMPOSITIONS, AND METHODS OF USE	United States of America	12/20/2022	63/433,971
IP-2380-US	POLYMERASES, COMPOSITIONS, AND METHODS OF USE	United States of America	09/27/2023	18/373,620
IP-2428-PCT	TAGMENTATION WORKFLOW	PCT	07/27/2023	PCT/EP2023/070845
IP-2428-PRV	TAGMENTATION WORKFLOW	United States of America	07/27/2022	63/392,729
IP-2430-PRV	NON-INVASIVE CANCER DETECTION METHODS	United States of America	03/31/2023	63/493,687
IP-2434-PRV	ETCH-FREE PHOTORESIST PATTERNING IN MULTI-DEPTH NANOWELLS	United States of America	12/07/2022	63/386,478
IP-2434-PRV2	PHOTORESIST PATTERNING IN MULTI-DEPTH NANOWELLS	United States of America	06/28/2023	63/510,819
IP-2437-PRV	CAPTURING AND AMPLIFYING POLYNUCLEOTIDES, AND REUSING FLOWCELLS, USING SILICA PARTICLES	United States of America	06/08/2023	63/507,029
IP-2439-PRV	USING DRIED SODIUM HYDROXIDE TO DENATURE DOUBLE STRANDED DNA	United States of America	12/21/2022	63/476,432
IP-2441-PRV	USING APERTURES TO CAPTURE POLYNUCLEOTIDES ON PARTICLES	United States of America	06/30/2023	63/511,338
IP-2455-PCT	DETECTING AND CORRECTING METHYLATION VALUES FROM METHYLATION SEQUENCING ASSAYS	PCT	10/10/2023	PCT/US23/76472
IP-2455-PRV	DETECTING AND CORRECTING METHYLATION VALUES FROM METHYLATION SEQUENCING ASSAYS	United States of America	10/11/2022	63/379,095

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IP-2455-US	DETECTING AND CORRECTING METHYLATION VALUES FROM METHYLATION SEQUENCING ASSAYS	United States of America	10/10/2023	18/484,268
IP-2456-PRV	ACCURATELY PREDICTING VARIANTS FROM METHYLATION SEQUENCING DATA	United States of America	11/30/2022	63/385,593
IP-2457-PRV	APPARATUS AND METHOD FOR COMPUTATIONAL COMPENSATION OF UNDER-CORRECTED ABERRATIONS	United States of America	05/01/2023	63/463,200
IP-2458-PRV	CHEMOENZYMATIC URACIL REPLACEMENT OF NUCLEOBASES	United States of America	11/30/2022	63/428,797
IP-2468-PRV	METHODS OF MODIFYING METHYL CYTOSINE OR DERIVATIVE THEREOF USING A PHOTOREDOX REACTION, AND METHODS OF USING THE SAME TO DETECT THE METHYL CYTOSINE OR DERIVATIVE THEREOF IN A POLYNUCLEOTIDE	United States of America	02/01/2023	63/482,742
IP-2478-PRV	FLOW CELLS AND METHODS	United States of America	03/25/2022	63/323,890
IP-2480-PRV	FLOW CELLS AND METHODS	United States of America	08/11/2022	63/371,165
IP-2481-PCT	FLOW CELLS AND METHODS	PCT	12/22/2022	PCT/US22/822280
IP-2481-PRV	FLOW CELLS AND METHODS	United States of America	10/25/2022	63/380,878
IP-2484-PRV	MULTIVALENT ASSEMBLIES FOR ENHANCED TARGET HYBRIDIZATION	United States of America	12/20/2022	63/476,320
IP-2485-PRV	IN-SITU SEQUENCING FOR SPATIAL MULTIOMICS APPLICATIONS	United States of America	06/20/2023	63/509,177
IP-2487-PCT	APTAMER DYNAMIC RANGE COMPRESSION AND DETECTION TECHNIQUES	PCT	04/06/2023	PCT/US23/17778
IP-2487-PRV	APTAMER DYNAMIC RANGE COMPRESSION AND DETECTION TECHNIQUES	United States of America	05/19/2022	63/343,760
IP-2487-PRV2	APTAMER DYNAMIC RANGE COMPRESSION AND DETECTION TECHNIQUES	United States of America	05/31/2022	63/347,375

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IP-2487-PRV3	APTAMER DYNAMIC RANGE COMPRESSION AND DETECTION TECHNIQUES	United States of America	11/30/2022	63/385,544
IP-2492-PRV2	METHODS FOR APPENDING ADAPTORS ONTO POLYNUCLEOTIDES	United States of America	10/20/2023	63/592,016
IP-2493-PCT	PREPARATION OF LONG READ NUCLEIC ACID LIBRARIES	PCT	05/25/2023	PCT/US23/67465
IP-2494-PCT	PREPARATION OF LONG READ NUCLEIC ACID LIBRARIES	PCT	05/25/2023	PCT/US23/67466
IP-2495-PCT	PREPARATION OF LONG READ NUCLEIC ACID LIBRARIES	PCT	05/25/2023	PCT/US23/67471
IP-2496-PCT	PREPARATION OF LONG READ NUCLEIC ACID LIBRARIES	PCT	05/25/2023	PCT/US23/67468
IP-2500-PRV	CALIBRATING PATHOGENICITY SCORES FROM A VARIANT PATHOGENICITY MACHINE-LEARNING MODEL	United States of America	02/28/2023	63/487,517
IP-2502-PCT	CONCURRENT SEQUENCING OF HETERO N-MER POLYNUCLEOTIDES	PCT	03/15/2023	PCT/EP23/56656
IP-2502-PRV	CONCURRENT SEQUENCING OF HETERO N-MER POLYNUCLEOTIDES	United States of America	01/17/2023	63/439,501
IP-2504-PRV	CAPTURING AND AMPLIFYING POLYNUCLEOTIDES	United States of America	04/14/2023	63/496,351
IP-2504-PRV2	PREPARING FEATURES ON A SUBSTRATE USING NANO-IMPRINT LITHOGRAPHY	United States of America	04/14/2023	63/496,355
IP-2507-PRV	CONCURRENT SEQUENCING USING NICK TRANSLATION	United States of America	09/20/2023	63/583,994
IP-2508-PRV	CONCURRENT SEQUENCING USING NICK TRANSLATION	United States of America	09/20/2023	63/584,039
IP-2509-PRV	CONCURRENT SEQUENCING WITH SPATIALLY SEPARATED RINGS	United States of America	06/14/2023	63/508,070
IP-2512-PCT	METHODS OF BASE CALLING NUCLEOBASES	PCT	03/15/2023	PCT/EP23/56672
IP-2512-PRV	METHODS OF BASE CALLING NUCLEOBASES	United States of America	01/17/2023	63/439,417
IP-2514-PCT	MACHINE LEARNING PIPELINE FOR GENOME-WIDE ASSOCIATION STUDIES	PCT	10/09/2023	PCT/US23/34751

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IP-2514-PRV	MACHINE LEARNING PIPELINE FOR GENOME-WIDE ASSOCIATION STUDIES	United States of America	10/09/2022	63/378,873
IP-2514-PRV2	MACHINE LEARNING PIPELINE FOR GENOME-WIDE ASSOCIATION STUDIES	United States of America	10/12/2022	63/415,534
IP-2514-US	MACHINE LEARNING PIPELINE FOR GENOME-WIDE ASSOCIATION STUDIES	United States of America	10/09/2023	18/483,313
IP-2519-PRV	POLYMERASES WITH INCREASED RESISTANCE TO OXIDATION, COMPOSITIONS, AND METHODS OF USE	United States of America	12/30/2022	63/436,277
IP-2521-PRV	TRANSITION-METAL CATALYST COMPOSITIONS AND METHODS FOR SEQUENCING BY SYNTHESIS	United States of America	12/22/2022	63/476,849
IP-2522-PRV	PALLADIUM CATALYST COMPOSITIONS AND METHODS FOR SEQUENCING BY SYNTHESIS	United States of America	12/22/2022	63/476,910
IP-2523-PRV	COMPOSITIONS AND METHODS FOR NUCLEIC ACID SEQUENCING	United States of America	03/30/2023	63/493,187
IP-2529-PRV	NAPHTHALIMIDE DYES AND USES IN NUCLEIC ACID SEQUENCING	United States of America	03/29/2023	63/492,896
IP-2532-PRV	COMPOSITIONS AND METHODS FOR NUCLEIC ACID EXTRACTION AND LIBRARY PREPARATION	United States of America	03/24/2023	63/492,081
IP-2533-PRV	COMPOSITIONS AND METHODS FOR DNA LIBRARY PREPARATION	United States of America	03/24/2023	63/492,109
IP-2534-PRV	SPATIAL MRNA/PROTEIN CO-ASSAYS USING APTAMERS	United States of America	12/23/2022	63/477,096
IP-2542-PRV	FLOW CELLS AND METHODS	United States of America	12/21/2022	63/476,585
IP-2546-PRV	METHODS OF SEQUENCING USING 3' ALLYL BLOCKED NUCLEOTIDES	United States of America	12/27/2022	63/477,275
IP-2549-PCT	CONCURRENT SEQUENCING OF FORWARD AND REVERSE COMPLEMENT STRANDS ON CONCATENATED POLYNUCLEOTIDES FOR METHYLATION DETECTION	PCT	03/15/2023	PCT/EP23/56668

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IP-2549-PRV	CONCURRENT SEQUENCING OF FORWARD AND REVERSE COMPLEMENT STRANDS ON CONCATENATED POLYNUCLEOTIDES FOR METHYLATION DETECTION	United States of America	01/17/2023	63/439,522
IP-2550-PCT	CONCURRENT SEQUENCING OF FORWARD AND REVERSE COMPLEMENT STRANDS ON SEPARATE POLYNUCLEOTIDES FOR METHYLATION DETECTION	PCT	03/15/2023	PCT/EP23/56665
IP-2550-PRV	CONCURRENT SEQUENCING OF FORWARD AND REVERSE COMPLEMENT STRANDS ON SEPARATE POLYNUCLEOTIDES FOR METHYLATION DETECTION	United States of America	01/17/2023	63/439,491
IP-2551-PRV	SYSTEMS AND METHODS OF SEQUENCING POLYNUCLEOTIDES WITH ALTERNATIVE SCATTERPLOTS	United States of America	06/30/2023	63/511,382
IP-2553-PRV	METHODS FOR MAKING FLOW CELL SURFACES	United States of America	03/30/2023	63/493,229
IP-2554-PRV	METHODS OF FUNCTIONALIZING MAGNETIC PARTICLES AND METHODS OF GENERATING AMPLICONS USING MAGNETIC PARTICLES	United States of America	06/29/2023	63/511,129
IP-2558-PRV	METHODS OF SEQUENCING USING 3' BLOCKED NUCLEOTIDES	United States of America	12/27/2022	63/477,302
IP-2559-PRV	METHODS OF SEQUENCING USING 3' BLOCKED NUCLEOTIDES	United States of America	12/27/2022	63/477,277
IP-2560-PRV	METHODS OF SEQUENCING USING 3' BLOCKED NUCLEOTIDES	United States of America	12/27/2022	63/477,294
IP-2561-PRV	ENRICHMENT METHODS AND KITS	United States of America	03/09/2023	63/489,346
IP-2562-PRV	ALTERED CYTIDINE DEAMINASES AND METHODS OF USE	United States of America	09/28/2023	63/541,084
IP-2565-PRV	ON-SEQUENCER FLOWCELL REUSE	United States of America	03/07/2023	63/488,866
IP-2568-PCT	CONCURRENT SEQUENCING OF FORWARD AND REVERSE COMPLEMENT STRANDS ON SEPARATE POLYNUCLEOTIDES	PCT	03/15/2023	PCT/EP23/56634
IP-2568-PRV	CONCURRENT SEQUENCING OF FORWARD AND REVERSE COMPLEMENT STRANDS ON SEPARATE POLYNUCLEOTIDES	United States of America	01/17/2023	63/439,466
IP-2569-PCT	METHODS OF PREPARING LOOP FORK LIBRARIES	PCT	03/15/2023	PCT/EP23/56641

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IP-2569-PRV	METHODS OF PREPARING LOOP FORK LIBRARIES	United States of America	01/17/2023	63/439,519
IP-2570-PCT	METHODS FOR PREPARING SIGNALS FOR CONCURRENT SEQUENCING	PCT	03/15/2023	PCT/EP23/56626
IP-2570-PRV	METHODS OF PREPARING SIGNALS FOR CONCURRENT SEQUENCING	United States of America	01/17/2023	63/439,438
IP-2571-PCT	CONCURRENT SEQUENCING OF FORWARD AND REVERSE COMPLEMENT STRANDS ON CONCATENATED POLYNUCLEOTIDES	PCT	03/15/2023	PCT/EP23/56669
IP-2571-PRV	CONCURRENT SEQUENCING OF FORWARD AND REVERSE COMPLEMENT STRANDS ON CONCATENATED POLYNUCLEOTIDES	United States of America	01/17/2023	63/439,415
IP-2572-PCT	METHODS OF DETERMINING SEQUENCE INFORMATION	PCT	03/15/2023	PCT/EP23/56653
IP-2572-PRV	METHODS OF DETERMINING SEQUENCE INFORMATION	United States of America	01/17/2023	63/439,443
IP-2578-PRV	IMPROVED VARIANT CALLING WITH METHYLATION-LEVEL ESTIMATION	United States of America	06/27/2023	63/510,603
IP-2580-PRV	CALIBRATING PATHOGENICITY SCORES FROM A VARIANT PATHOGENICITY MACHINE-LEARNING MODEL	United States of America	02/28/2023	63/487,525
IP-2581-PRV	COMPOSITIONS AND METHODS FOR NUCLEIC ACID SEQUENCING	United States of America	08/31/2023	63/579,897
IP-2583-PRV	METHODS OF MAKING BARRIERS INCLUDING NANOPORES AND CROSSLINKED AMPHIPHILIC MOLECULES, AND BARRIERS FORMED USING SAME	United States of America	05/25/2023	63/504,401
IP-2584-PRV	PREPARATION OF LONG READ NUCLEIC ACID LIBRARIES	United States of America	02/03/2023	63/483,213
IP-2585-PCT	SYSTEMS AND METHODS OF SEQUENCING POLYNUCLEOTIDES	PCT	03/27/2023	PCT/US23/16388
IP-2585-US	SYSTEMS AND METHODS OF SEQUENCING POLYNUCLEOTIDES	United States of America	03/27/2023	18/190,809
IP-2592-PCT	DEFORMABLE POLYMERS COMPRISING IMMOBILISED PRIMERS	PCT	09/18/2023	PCT/EP23/75586
IP-2592-PRV	DEFORMABLE POLYMERS COMPRISING IMMOBILISED PRIMERS	United States of America	08/11/2023	63/519,137
IP-2596-PRV	METHODS FOR DOUBLE-STRANDED SEQUENCING BY SYNTHESIS	United States of America	05/31/2023	63/470,050
IP-2601-PRV	METHODS AND FORMULATIONS FOR DENATURING DNA	United States of America	06/29/2023	63/511,076

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IP-2602-PRV	METHODS FOR MAKING FLOW CELLS	United States of America	05/09/2023	63/501,075
IP-2603-PRV	APPARATUS AND METHOD FOR EXTENDED DEPTH OF FIELD	United States of America	03/17/2023	63/452,835
IP-2604-PRV	PROTECTING FULLY FUNCTIONAL NUCLEOTIDES FROM DEGRADATION	United States of America	06/30/2023	63/511,391
IP-2611-PRV	MULTI-REGION JOINT DETECTION	United States of America	05/26/2023	63/469,317
IP-2628-PRV	CAPTURING AND AMPLIFYING POLYNUCLEOTIDES USING DENDRITIC MOLECULES	United States of America	09/26/2023	63/585,544
IP-2629-PRV	USING FLOWCELL SPATIAL COORDINATES TO LINK READS FOR IMPROVED GENOME ANALYSIS	United States of America	06/30/2023	63/511,593
IP-2630-PRV	GENOME WIDE ASSEMBLY-BASED STRUCTURAL VARIANT CALLING	United States of America	11/09/2023	63/597,521
IP-2639-PRV	FLOW CELLS	United States of America	09/29/2023	63/586,716
IP-2640-PRV	FLOW CELLS WITH DENDRON ARCHITECTURE	United States of America	06/30/2023	63/511,458
IP-2645-PRV	APTAMER DETECTION TECHNIQUES	United States of America	08/01/2023	63/517,053
IP-2645-PRV2	APTAMER DETECTION TECHNIQUES	United States of America	09/05/2023	63/580,631
IP-2654-PRV	SOLID SUPPORTS AND METHODS FOR STRAND INVASION-BASED AMPLIFICATION	United States of America	09/29/2023	63/586,566
IP-2656-PRV	ON-SEQUENCER IMAGING FLOWCELL REUSE	United States of America	09/28/2023	63/586,350
IP-2681-PRV	TAGMENTATION METHODS AND KITS	United States of America	09/29/2023	63/586,975
IP-2688-PRV	APTAMER DETECTION TECHNIQUES	United States of America	08/31/2023	63/535,976
IP-2691-PRV	ALTERED CYTIDINE DEAMINASES AND METHODS OF USE	United States of America	09/28/2023	63/541,077
IP-2694-PRV	APTAMER DYNAMIC RANGE COMPRESSION AND DETECTION TECHNIQUES	United States of America	08/31/2023	63/535,912
IP-2706-PRV	TAGMENTATION METHODS AND KITS	United States of America	10/06/2023	63/588,510
IP-2731-PRV	PHOTOCLEAVING ILLUMINATION MODULE	United States of America	10/30/2023	63/546,368