

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT3590395

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	SECURITY INTEREST

CONVEYING PARTY DATA

Name	Execution Date
AFFYMETRIX, INC.	10/28/2015

RECEIVING PARTY DATA

Name:	BANK OF AMERICA, N.A., AS ADMINISTRATIVE AGENT
Street Address:	901 MAIN STREET
Internal Address:	TX1-492-15-06
City:	DALLAS
State/Country:	TEXAS
Postal Code:	75202

PROPERTY NUMBERS Total: 388

Property Type	Number
Patent Number:	6864048
Patent Number:	5837832
Patent Number:	5889165
Patent Number:	6225625
Patent Number:	6406844
Patent Number:	6974666
Patent Number:	5858659
Patent Number:	6660233
Patent Number:	5856174
Patent Number:	6361937
Patent Number:	6458530
Patent Number:	6022963
Patent Number:	5959098
Patent Number:	5922591
Patent Number:	6033850
Patent Number:	6037124
Patent Number:	6228575
Patent Number:	6147205
Patent Number:	5856104

PATENT

Property Type	Number
Patent Number:	6013440
Patent Number:	6300063
Patent Number:	5981956
Patent Number:	6344316
Patent Number:	6329140
Patent Number:	6083697
Patent Number:	6090555
Patent Number:	6168948
Patent Number:	6294327
Patent Number:	6150147
Patent Number:	6420108
Patent Number:	6050719
Patent Number:	6201639
Patent Number:	5936324
Patent Number:	6153743
Patent Number:	6114122
Patent Number:	6262838
Patent Number:	6303301
Patent Number:	6203983
Patent Number:	6333179
Patent Number:	6269846
Patent Number:	6308170
Patent Number:	6229911
Patent Number:	6484183
Patent Number:	6188783
Patent Number:	6223127
Patent Number:	6306643
Patent Number:	6130046
Patent Number:	6185030
Patent Number:	6262216
Patent Number:	6033860
Patent Number:	6043080
Patent Number:	6333155
Patent Number:	6699659
Patent Number:	6261431
Patent Number:	7099777
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Patent Number:	6307042

Property Type	Number
Patent Number:	6309831
Patent Number:	6794130
Patent Number:	6203989
Patent Number:	7108968
Patent Number:	6582906
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Patent Number:	6171793
Patent Number:	6207960
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Patent Number:	6486286
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Patent Number:	6287778
Patent Number:	6361947
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Patent Number:	6368799
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Property Type	Number
Patent Number:	6386749
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Property Type	Number
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Patent Number:	6872529
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Patent Number:	7312919
Patent Number:	7056665
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Property Type	Number
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Patent Number:	8729251
Patent Number:	8748079
Patent Number:	8945811
Patent Number:	9085761
Patent Number:	8986931
Patent Number:	9147103

CORRESPONDENCE DATA

Fax Number: (704)444-8847

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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Email: ksaltrick@mcguirewoods.com

Correspondent Name: MCGUIREWOODS LLP

Address Line 1: 201 NORTH TRYON STREET

Address Line 2: ATTENTION: G.YILMA, ESQ.

Address Line 4: CHARLOTTE, NORTH CAROLINA 28202

NAME OF SUBMITTER:

GERUM YILMA

SIGNATURE: /s/ Gerum Yilma, Esq.

DATE SIGNED: 10/28/2015

Total Attachments: 46
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INTELLECTUAL PROPERTY SECURITY AGREEMENT

THIS PATENT SECURITY AGREEMENT, dated as of October 28, 2015, is made by each of the entities listed on the signature pages hereof (each a "Grantor" and, collectively, the "Grantors"), in favor of Bank of America, N.A., as agent (in such capacity, together with its successors and permitted assigns, the "Administrative Agent") for the Lenders and the L/C Issuer (as defined in the Credit Agreement referred to below) and the other Secured Parties.

WITNESSETH:

WHEREAS, pursuant to that certain Credit Agreement, dated as of October 28, 2015 (as the same may be amended, restated, supplemented or otherwise modified from time to time, the "Credit Agreement"), among the Borrower, the other Loan Parties, the Lenders party thereto from time to time and Bank of America, N.A., as Administrative Agent for the Lenders, the Lenders and the L/C Issuer have severally agreed to make extensions of credit to the Borrower upon the terms and subject to the conditions set forth therein;

WHEREAS, each Grantor (other than the Borrower) has agreed, pursuant to that certain Security and Pledge Agreement of even date herewith, by Affymetrix, Inc. (the "Borrower"), the Affiliates of the Borrower from time to time party thereto as Grantors in favor of Administrative Agent (as the same may be amended, restated, supplemented or otherwise modified from time to time, the "Security and Pledge Agreement"), to guarantee the Obligations (as defined in the Credit Agreement) of the Borrower; and

WHEREAS, all of the Grantors are party to the Security and Pledge Agreement pursuant to which the Grantors are required to execute and deliver this Patent Security Agreement;

NOW, THEREFORE, in consideration of the premises and to induce the Lenders, the L/C Issuer and Administrative Agent to enter into the Credit Agreement and to induce the Lenders and the L/C Issuer to make their respective extensions of credit to the Borrower thereunder, each Grantor hereby agrees with Administrative Agent as follows:

Section 1. Defined Terms. Capitalized terms used herein without definition are used as defined in the Security and Pledge Agreement.

Section 2. Grant of Security Interest in Patent Collateral. Each Grantor, as collateral security for the prompt and complete payment and performance when due (whether at stated maturity, by acceleration or otherwise) of the Secured Obligations of such Grantor, hereby mortgages, pledges and hypothecates to Administrative Agent for the benefit of the Secured Parties, and grants to Administrative Agent for the benefit of the Secured Parties a Lien on and security interest in, all of its right, title and interest in, to and under the following Collateral of such Grantor (the "Patent Collateral"):

(a) all of its Patents providing for the grant by or to such Grantor of any right under any Patent, including, without limitation, those referred to on Schedule 1 hereto;

(b) all reissues, reexaminations, continuations, continuations-in-part, divisionals, renewals and extensions of the foregoing; and

(c) all income, royalties, proceeds and liabilities at any time due or payable or asserted under and with respect to any of the foregoing, including, without limitation, all rights to sue and recover at law or in equity for any past, present and future infringement, misappropriation, dilution, violation or other impairment thereof.

Section 3. Security and Pledge Agreement. The security interest granted pursuant to this Patent Security Agreement is granted in conjunction with the security interest granted to Administrative Agent pursuant to the Security and Pledge Agreement and each Grantor hereby acknowledges and agrees that the rights and remedies of Administrative Agent with respect to the security interest in the Patent Collateral made and granted hereby are more fully set forth in the Security and Pledge Agreement, the terms and provisions of which are incorporated by reference herein as if fully set forth herein. Nothing herein shall be deemed to grant a Lien or security interest in or to any Excluded Property.

Section 4. Counterparts. This Patent Security Agreement may be executed in any number of counterparts and by different parties in separate counterparts, each of which when so executed shall be deemed to be an original and all of which taken together shall constitute one and the same agreement. Signature pages may be detached from multiple separate counterparts and attached to a single counterpart.


Section 5. Governing Law. This Patent Security Agreement and the rights and obligations of the parties hereto shall be governed by, and construed and interpreted in accordance with, the law of the State of New York.

[Signature Pages Follow]

IN WITNESS WHEREOF, each Grantor has caused this Patent Security Agreement to be executed and delivered by its duly authorized officer as of the date first set forth above.

Very truly yours,

AFFYMETRIX, INC.
as Grantor

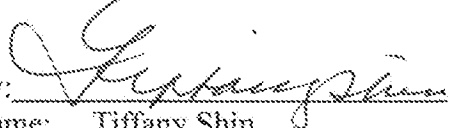
By: 
Name: Charles Wood
Title: Executive Vice President
and Chief Financial Officer

[Signature Page to Patent Security Agreement]

PATENT
REEL: 036988 FRAME: 0181

ACCEPTED AND AGREED
as of the date first above
written:

BANK OF AMERICA, N.A.,
as Administrative Agent

By: 
Name: Tiffany Shin
Title: Assistant Vice President

SCHEDULE I
TO
PATENT SECURITY AGREEMENT

Patent Registrations

1. REGISTERED PATENTS

See attached.

Country	Type	Application No.	Filed	Publication No.	Published	Patent No.	Issued	Status	Expires
US	CIP	08/325,457	10/28/1994	42047	4/11/2002	6,864,048	3/8/2005	Granted	3/8/2022
US	FWC	08/441,887	5/16/1995			5,837,832	11/17/1998	Granted	11/17/2015
US	DIV	08/444,598	5/19/1995			5,889,165	3/30/1999	Granted	3/30/2016
US	DIV	08/456,598	6/1/1995			6,225,625	5/1/2001	Granted	5/1/2018
US	DIV	08/456,887	6/1/1995			6,406,844	6/18/2002	Granted	6/18/2019
US	CIP	08/533,582	10/18/1995			6,974,666	12/13/2005	Granted	10/28/2017
US	ORD	08/563,762	11/29/1995			5,858,659	1/12/1999	Granted	11/29/2015
US	ORD	08/586,116	1/16/1996			6,660,233	12/9/2003	Granted	1/16/2016
US	ORD	08/589,027	1/19/1996			5,856,174	1/5/1999	Granted	1/19/2016
US	ORD	08/618,834	3/19/1996			6,361,937	3/26/2002	Granted	3/19/2016
US	ORD	08/626,285	4/4/1996			6,458,530	10/1/2002	Granted	4/4/2016
US	ORD	08/630,148	4/10/1996			6,022,963	2/8/2000	Granted	4/10/2016
US	ORD	08/634,053	4/17/1996			5,959,098	9/28/1999	Granted	4/17/2016
EP	ORD	96303245.3	5/9/1996	742287	11/13/1996	742287	1/18/2006	Granted	5/9/2016
DE	EPC	96303245.3	5/9/1996	742287	11/13/1996	69635744	1/18/2006	Granted	5/9/2016
FR	EPC	96303245.3	5/9/1996	742287	11/13/1996	742287	1/18/2006	Granted	5/9/2016
GB	EPC	96303245.3	5/9/1996	742287	11/13/1996	742287	1/18/2006	Granted	5/9/2016
US	CIP	08/671,928	6/27/1996			5,922,591	7/13/1999	Granted	1/19/2016
US	PCT	08/704,657	9/13/1996			6,033,850	3/7/2000	Granted	3/7/2017
US	ORD	08/720,307	9/27/1996			6,037,124	3/14/2000	Granted	9/27/2016
AU	PCT	15304/97	1/8/1997			734126	9/20/2001	Granted	1/8/2017
US	CIP	08/797,812	2/7/1997			6,228,575	5/8/2001	Granted	4/8/2016
US	CIP	08/812,005	3/5/1997			6,147,205	11/14/2000	Granted	4/10/2016
US	ORD	08/813,508	3/7/1997			5,856,104	1/5/1999	Granted	3/7/2017
US	ORD	08/815,395	3/10/1997			6,013,440	1/11/2000	Granted	3/10/2017
CA	PCT	2,251,755	4/16/1997	2251755	10/23/1997	2,251,755	9/14/2010	Granted	4/16/2017
US	CIP	08/853,370	5/8/1997			6,300,063	10/9/2001	Granted	11/29/2015
US	ORD	08/856,642	5/15/1997			5,981,956	11/9/1999	Granted	5/15/2017
US	PCT	08/882,649	6/25/1997			6,344,316	2/5/2002	Granted	2/11/2017
US	ORD	08/933,219	9/18/1997			6,329,140	12/11/2001	Granted	9/18/2017
US	ORD	08/969,227	11/13/1997			6,083,697	7/4/2000	Granted	11/13/2017
EP	PCT	97947595.1	11/13/1997	946286	5/22/1998	946286	3/19/2003	Granted	11/13/2017

PATENT

REEL: 036988 FRAME: 0184

Title

Factorial Chemical Libraries

Arrays of Nucleic Acid Probes on Biological Chips

Photolabile Nucleoside Protecting Groups

Signal Detection Methods and Apparatus

Very Large Scale Immobilized Polymer Synthesis

Methods of Enzymatic Discrimination Enhancement and Surface-Bound Double-Stranded DNA

Polymorphism Detection

Analytical biochemistry system with robotically carried bioarray (Beckman)

Integrated Nucleic Acid Diagnostic Device

Computer Aided Nucleic Acid Sequencing

Selecting Tag Nucleic Acids

Synthesis of Oligonucleotide Arrays Using Photocleavable Protecting Groups

Substrate Preparation Process

Modified nucleic acid probes

Modified nucleic acid probes

Modified nucleic acid probes

Modified nucleic acid probes

Integrated Nucleic Acid Diagnostic Device

Electrochemical Denaturation of Double Stranded Nucleic Acid (Fast Copyu)

Carboxylated Polyvinylidene Fluoride Solid Supports for the Immobilization of Biomolecules and Methods of their use thereof

Analytical biochemistry system with robotically carried bioarray (Beckman)

Chip-Based Speciation and Phenotypic Characterization of Microorganisms

Photocleavable Protecting Groups and Methods for Their Use

Polymorphisms in the Glucose-6 Phosphate Dehydrogenase Locus

Nucleic Acid Affinity Columns

PHOTOLABILE POLYMER ARRAY SYNTHESIS METHODS

Polymorphism Detection

Systems and Methods for Detection of Labeled Materials

Nucleic Acid Analysis Techniques

Identification of molecular sequence signatures and methods involving the same

Chemical Amplification for the Synthesis of Patterned Arrays

Chemical Amplification for the Synthesis of Patterned Arrays

DE	EPC	97947595.1	11/13/1997	946286	10/6/1999	69720041.8	3/19/2003	Granted	11/13/2017
FR	EPC	97947595.1	11/13/1997	946286	10/6/1999	946286	3/19/2003	Granted	11/13/2017
GB	EPC	97947595.1	11/13/1997	946286	10/6/1999	946286	3/19/2003	Granted	11/13/2017
US	ORD	08/996,737	12/23/1997			6,090,555	7/18/2000	Granted	12/23/2017
US	CIP	09/005,985	1/12/1998			6,168,948	1/2/2001	Granted	1/19/2016
US	ORD	09/013,596	1/26/1998			6,294,327	9/25/2001	Granted	1/26/2018
US	ORD	09/019,881	2/6/1998			6,150,147	11/21/2000	Granted	2/6/2018
US	ORD	09/020,743	2/9/1998	15948	2/7/2002	6,420,108	7/16/2002	Granted	2/9/2018
US	CIP	09/032,724	2/27/1998			6,050,719	4/18/2000	Granted	1/30/2018
US	ORD	09/045,547	3/20/1998			6,201,639	3/13/2001	Granted	3/20/2018
US	ORD	09/050,496	3/30/1998			5,936,324	8/10/1999	Granted	3/30/2018
US	CIP	09/059,779	4/13/1998			6,153,743	11/28/2000	Granted	12/17/2016
US	CIP	09/070,689	4/30/1998			6,114,122	9/5/2000	Granted	3/26/2016
US	CIP	09/079,790	5/15/1998			6,262,838	7/17/2001	Granted	3/20/2018
US	CIP	09/086,285	5/29/1998			6,303,301	10/16/2001	Granted	1/12/2018
EP	PCT	98930246.8	6/11/1998	1009857	12/17/1998	1009857	3/8/2006	Granted	6/11/2018
JP	PCT	11-503331	6/11/1998	2002514091	5/14/2002	3693352	7/1/2005	Granted	6/11/2018
FR	EPP	98930246.8	6/11/1998	1009857	6/21/2000	1009857	3/8/2006	Granted	6/11/2018
DE	EPP	98930246.8	6/11/1998	1009857	6/21/2000	69833758	3/8/2006	Granted	6/11/2018
GB	EPP	98930246.8	6/11/1998	1009857	6/21/2000	1009857	3/8/2006	Granted	6/11/2018
US	ORD	09/097,675	6/16/1998			6,203,983	3/20/2001	Granted	6/16/2018
US	ORD	09/099,301	6/18/1998			6,333,179	12/25/2001	Granted	6/18/2018
US	CIP	09/122,216	7/24/1998			6,269,846	8/7/2001	Granted	1/13/2018
US	ORD	09/122,434	7/24/1998			6,308,170	10/23/2001	Granted	7/24/2018
US	ORD	09/122,167	7/24/1998			6,229,911	5/8/2001	Granted	7/24/2018
EP	PCT	98936012.8	7/24/1998	1002264		1002264	4/14/2004	Granted	7/24/2018
GB	EPC	98936012.8	7/24/1998	1002264		1002264	4/14/2004	Granted	7/24/2018
DE	EPC	98936012.8	7/24/1998	1002264		69823206.2	4/14/2004	Granted	7/24/2018
FR	EPC	98936012.8	7/24/1998	1002264		1002264	4/14/2004	Granted	7/24/2018
US	ORD	09/122,169	7/24/1998			6,484,183	11/19/2002	Granted	7/24/2018
US	ORD	09/122,304	7/24/1998			6,188,783	2/13/2001	Granted	7/24/2018
US	ORD	09/134,758	8/14/1998			6,223,127	4/24/2001	Granted	8/14/2018
EP	PCT	98944444.3	8/14/1998	1019536	2/25/1999	1019536	10/20/2004	Granted	8/14/2018

PATENT

REEL: 036988 FRAME: 0186

Chemical Amplification for the Synthesis of Patterned Arrays
Chemical Amplification for the Synthesis of Patterned Arrays
Chemical Amplification for the Synthesis of Patterned Arrays
Scanned Image Alignment Systems and Methods
Miniaturized Genetic Analysis Systems and Methods
Apparatus and Methods for Detecting Samples Labeled with Material Having Strong Light Scattering Properties, using reflection mode light and diffuse
Biological array fabrication methods with reduction of static charge
Computer-aided display for comparative gene expression
Rotational Mixing Method using a Cartridge having a Narrow Interior
Wide Field of View and High Speed Scanning Microscopy
Moving Magnetic Scanner
Lithographic Mask Design and Synthesis of Diverse Probes on a Substrate
Fluidics Station with a Mounting System and Method of Using
Focusing In Microscope Systems
Expression Monitoring for Gene Function Identification
METHOD TO DETECT GENE POLYMORPHISMS AND MONITOR ALLELIC EXPRESSION EMPLOYING A PROBE ARRAY
METHOD TO DETECT GENE POLYMORPHISMS AND MONITOR ALLELIC EXPRESSION EMPLOYING A PROBE ARRAY
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METHOD TO DETECT GENE POLYMORPHISMS AND MONITOR ALLELIC EXPRESSION EMPLOYING A PROBE ARRAY
METHOD TO DETECT GENE POLYMORPHISMS AND MONITOR ALLELIC EXPRESSION EMPLOYING A PROBE ARRAY
Method for Detecting Chemical Interaction Between Naturally Occurring Biopolymers which are Non-Identical Binding Partners
Methods and Compositions for Multiplex Amplification of Nucleic Acids
Depositing Fluid Specimens on Substrates, Resulting Ordered Arrays, Techniques for Deposition of Arrays
Gene Expression and Evaluation System
Method and Apparatus for Providing a Bioinformatics Database
METHOD FOR PROVIDING A BIOINFORMATICS DATABASE
METHOD FOR PROVIDING A BIOINFORMATICS DATABASE
METHOD FOR PROVIDING A BIOINFORMATICS DATABASE
METHOD FOR PROVIDING A BIOINFORMATICS DATABASE
METHOD FOR PROVIDING A BIOINFORMATICS DATABASE
Method and System for Providing a Polymorphism Database
Method and system for providing a probe array chip design database
Polymorphism Detection Utilizing Clustering Analysis
POLYMORPHISM DETECTION UTILIZING CLUSTERING ANALYSIS

PATENT

REEL: 036988 FRAME: 0187

DE	EPP	98944444.3	8/14/1998	1019536	7/19/2000	69827154	10/20/2004	Granted	8/14/2018
FR	EPP	98944444.3	8/14/1998	1019536	7/19/2000	1019536	10/20/2004	Granted	8/14/2018
GB	EPP	98944444.3	8/14/1998	1019536	7/19/2000	1019536	10/20/2004	Granted	8/14/2018
US	ORD	09/138.958	8/24/1998			6,306,643	10/23/2001	Granted	8/24/2018
US	CIP	09/144.514	8/31/1998			6,130,046	10/10/2000	Granted	5/4/2018
EP	PCT	98946865.7	9/8/1998	1012575	3/18/1999	1012575	11/19/2003	Granted	9/8/2018
DE	EPC	98946865.7	9/8/1998	1012575	6/28/2000	69819916	11/19/2003	Granted	9/8/2018
GB	EPC	98946865.7	9/8/1998	1012575	6/28/2000	1012575	11/19/2003	Granted	9/8/2018
EP	PCT	98948136.1	9/8/1998	1019538	3/25/1999	1019538	3/23/2005	Granted	9/8/2018
DE	EPP	98948136.1	9/8/1998	EP1019538	3/25/1999	69829493.9	3/23/2005	Granted	9/8/2018
FR	EPP	98948136.1	9/8/1998	EP1019538	3/25/1999	1019538	3/23/2005	Granted	9/8/2018
GB	EPP	98948136.1	9/8/1998	EP1019538	3/25/1999	1019538	3/23/2005	Granted	9/8/2018
US	CIP	09/170.847	10/13/1998			6,185,030	2/6/2001	Granted	3/20/2018
US	ORD	09/172.190	10/13/1998			6,262,216	7/17/2001	Granted	10/13/2018
US	ORD	09/182.991	10/30/1998			6,033,860	3/7/2000	Granted	10/30/2018
EP	ORD	98310131.2	12/10/1998	923050	7/31/2002	923050	12/1/2004	Granted	12/10/2018
DE	EPC	98310131.2	12/10/1998	923050	7/31/2002	69827913	12/1/2004	Granted	12/10/2018
FR	EPC	98310131.2	12/10/1998	923050	7/31/2002	923050	12/1/2004	Granted	12/10/2018
GB	EPC	98310131.2	12/10/1998	923050	7/31/2002	923050	12/1/2004	Granted	12/10/2018
US	DIV	09/210.025	12/11/1998			6,043,080	3/28/2000	Granted	1/19/2016
US	ORD	09/215.207	12/18/1998			6,333,155	12/25/2001	Granted	12/18/2018
EP	PCT	98964070.1	12/18/1998	1040204	7/1/1999	1040204	3/3/2004	Granted	12/18/2018
DE	EPC	98964070.1	12/18/1998	1040204	10/4/2000	69822206.7	3/3/2004	Granted	12/18/2018
FR	EPC	98964070.1	12/18/1998	1040204	10/4/2000	1040204	3/3/2004	Granted	12/18/2018
GB	EPC	98964070.1	12/18/1998	1040204	10/4/2000	1040204	3/3/2004	Granted	12/18/2018
US	ORD	09/217.368	12/21/1998	49095	12/6/2001	6,699,659	3/2/2004	Granted	1/6/2019
US	ORD	09/221.436	12/28/1998			6,261,431	7/17/2001	Granted	12/28/2018
US	CIP	09/229.060	1/11/1999			7,099,777	8/29/2006	Granted	9/5/2018
US	ORD	09/238.131	1/27/1999			6,270,644	8/7/2001	Granted	1/27/2019
EP	ORD	99300721	2/1/1999	933126	8/4/1999	933126	10/20/2004	Granted	2/1/2019
DE	EPC	99300721	2/1/1999	933126	8/4/1999	69921213	10/20/2004	Granted	2/1/2019
FR	EPC	99300721	2/1/1999	933126	8/4/1999	933126	10/20/2004	Granted	2/1/2019
GB	EPC	99300721	2/1/1999	933126	8/4/1999	933126	10/20/2004	Granted	2/1/2019

PATENT

REEL: 036988 FRAME: 0188

POLYMORPHISM DETECTION UTILIZING CLUSTERING ANALYSIS
POLYMORPHISM DETECTION UTILIZING CLUSTERING ANALYSIS
POLYMORPHISM DETECTION UTILIZING CLUSTERING ANALYSIS
Methods of using an array of pooled probes in genetic analysis
Techniques for Synthesis Integrity Evaluation Utilizing Cycle Fidelity Probes
APPARATUS AND METHOD FOR IMAGING SAMPLES LABELED WITH LIGHT-SCATTERING MATERIAL
APPARATUS AND METHOD FOR IMAGING SAMPLES LABELED WITH LIGHT-SCATTERING MATERIAL
APPARATUS AND METHOD FOR IMAGING SAMPLES LABELED WITH LIGHT-SCATTERING MATERIAL
Techniques for Identifying, Confirming, Mapping, and Categorizing Polymers
Techniques for Identifying, Confirming, Mapping, and Categorizing Polymers
Techniques for Identifying, Confirming, Mapping, and Categorizing Polymers
Techniques for Identifying, Confirming, Mapping, and Categorizing Polymers
Wide Field of View and High Speed Scanning Microscopy
Functionalized Silicon Compounds and Methods for Their Synthesis and Use
Expression Profiles in Adult and Fetal Organs
Scanned Image Alignment Systems and Methods
Scanned Image Alignment Systems and Methods
Scanned Image Alignment Systems and Methods
Scanned Image Alignment Systems and Methods
Integrated Nucleic Acid Diagnostic Device
Exploiting Genomics in the Search for New Drugs
Exploiting Genomics in the Search for New Drugs
Exploiting Genomics in the Search for New Drugs
Exploiting Genomics in the Search for New Drugs
Exploiting Genomics in the Search for New Drugs
Exploiting Genomics in the Search for New Drugs
Products and methods for analyzing nucleic acids including identification of substitutions, insertions and deletions
Process for Microrfabrication of an Integrated PCR-CE Device and Products Produced by the Same
Techniques for Identifying, Confirming, Mapping, and Categorizing Polymers
Capillary array electrophoresis scanner
Device and methods for mixing fluid contained in a cartridge
Device and methods for mixing fluid contained in a cartridge
Device and methods for mixing fluid contained in a cartridge
Device and methods for mixing fluid contained in a cartridge
Device and methods for mixing fluid contained in a cartridge

US	CON	09/244,568	2/4/1999		6,307,042	10/23/2001	Granted	4/17/2016
US	CIP	09/245,329	2/5/1999		6,309,831	10/30/2001	Granted	2/6/2018
US	PCT	09/171,847	3/11/1999	8762	6,794,130	9/21/2004	Granted	4/25/2017
EP	PCT	99912745.9	3/19/1999	1073926	1073926	5/21/2003	Granted	3/19/2019
DE	EPC	99912745.9	3/19/1999	1073926	69908120	5/21/2003	Granted	3/19/2019
FR	EPC	99912745.9	3/19/1999	1073926	1073926	5/21/2003	Granted	3/19/2019
GB	EPC	99912745.9	3/19/1999	1073926	1073926	5/21/2003	Granted	3/19/2019
US	ORD	09/276,774	3/25/1999		6,203,989	3/20/2001	Granted	3/25/2019
US	ORD	09/285,306	4/2/1999	0187467-A1	7,108,968	9/19/2006	Granted	4/2/2019
US	ORD	09/285,658	4/5/1999		6,582,906	6/24/2003	Granted	4/5/2019
US	DIV	09/294,700	4/19/1999		6,197,595	3/6/2001	Granted	1/19/2016
US	ORD	09/294,293	4/19/1999		6,171,793	1/9/2001	Granted	4/19/2019
US	CON	09/295,214	4/21/1999		6,207,960	3/27/2001	Granted	5/15/2017
US	CIP	09/321,481	5/27/1999		6,391,550	5/21/2002	Granted	9/18/2017
EP	ORD	99110362.3	5/28/1999	961174	961174	1/7/2007	Granted	5/28/2019
DE	EPC	99110362.3	5/28/1999	961174	69934631.2	1/7/2007	Granted	5/28/2019
GB	EPC	99110362.3	5/28/1999	961174	961174	1/7/2007	Granted	5/28/2019
JP	ORD	11-152921	5/31/1999		3472723	9/12/2003	Granted	5/31/2019
US	ORD	09/326,374	6/4/1999		6,218,803	4/17/2001	Granted	6/4/2019
EP	ORD	99250202.1	6/21/1999	967217	967217	12/21/2005	Granted	6/21/2019
FR	EPC	99250202.1	6/21/1999	967217	967217	12/21/2005	Granted	6/21/2019
DE	EPC	99250202.1	6/21/1999	967217	69928995.5	12/21/2005	Granted	6/21/2019
CH	EPC	99250202.1	6/21/1999	967217	967217	12/21/2005	Granted	6/21/2019
GB	EPC	99250202.1	6/21/1999	967217	967217	12/21/2005	Granted	6/21/2019
US	CIP	09/347,958	7/6/1999		6,146,833	11/14/2000	Granted	2/11/2017
US	ORD	09/354,935	7/15/1999		6,185,561	2/6/2001	Granted	7/15/2019
EP	PCT	99937150.3	7/20/1999	1124838	1124838	6/1/2005	Granted	7/20/2019
DE	EPP	99937150.3	7/20/1999	1124838	69925624	6/1/2005	Granted	7/20/2019
FR	EPP	99937150.3	7/20/1999	1124838	1124838	6/1/2005	Granted	7/20/2019
GB	EPP	99937150.3	7/20/1999	1124838	1124838	6/1/2005	Granted	7/20/2019
US	ORD	09/358,664	7/21/1999		6,495,320	12/17/2002	Granted	7/21/2019
US	ORD	09/373,984	8/16/1999	53541	6,864,050	3/8/2005	Granted	8/16/2019
US	ORD	09/377,022	8/18/1999		6,338,071	1/8/2002	Granted	8/18/2019

PATENT

REEL: 036988 FRAME: 0190

Substrate Preparation Process

Method of manufacturing biological chips

ELECTRODE CAPTURE OF NUCLEIC ACID

Wide Field of View and High Speed Scanning Microscopy

Wide Field of View and High Speed Scanning Microscopy

Wide Field of View and High Speed Scanning Microscopy

Wide Field of View and High Speed Scanning Microscopy

Methods and Compositions for Amplifying Detectable Signals In Specific Binding Assays

Mycobacterial RPOB Sequences

Proportional Amplification of Nucleic Acids

Integrated Nucleic Acid Diagnostic Device

Method for Scanning Gene Probe Array to Produce Data having Dynamic Range that Exceeds that of a Scanner

Systems and Methods for Detection of Labeled Materials

Identification of molecular sequence signatures and methods involving the same

Compositions and methods involving direct write optical lithography

Compositions and methods involving direct write optical lithography

Compositions and methods involving direct write optical lithography

OPTICAL LITHOGRAPHY SYSTEM AND METHOD

Position Sensing with Variable Capacitance Transducers

Reagents and Methods for Solid-Phase Synthesis and Display

Reagents and Methods for Solid-Phase Synthesis and Display

Reagents and Methods for Solid-Phase Synthesis and Display

Reagents and Methods for Solid-Phase Synthesis and Display

Reagents and Methods for Solid-Phase Synthesis and Display

Polymeric Reagents for Immobilizing Biopolymers

Method and Apparatus for Providing an Expression Data Mining Database

Nucleic Acid Labeling Compounds

Nucleic Acid Labeling Compounds

Nucleic Acid Labeling Compounds

Nucleic Acid Labeling Compounds

Even Length Proportional Amplification of Nucleic Acids

Single-Phase Amplification of Nucleic Acids

Method and System for Providing a Contract Management System Using an Action-Item Table

EP	PCT	99942387.4	8/19/1999	1108062	6/20/2001	1108062	6/16/2004	Granted	8/19/2019
GB	EPC	99942387.4	8/19/1999	1108062	6/20/2001	1108062	6/16/2004	Granted	8/19/2019
FR	EPC	99942387.4	8/19/1999	1108062	6/20/2001	1108062	6/16/2004	Granted	8/19/2019
DE	EPC	99942387.4	8/19/1999	1108062	6/20/2001	69918130.5	6/16/2004	Granted	8/19/2019
US	ORD	09/383,986	8/26/1999			6,545,264	4/8/2003	Granted	8/26/2019
US	ORD	09/396,196	9/15/1999			6,821,724	11/23/2004	Granted	9/15/2019
EP	ORD	99250336.7	9/22/1999	999285	5/10/2000	999285	12/7/2005	Granted	9/22/2019
FR	EPC	99250336.7	9/22/1999	999285	5/10/2000	999285	12/7/2005	Granted	9/22/2019
DE	EPC	99250336.7	9/22/1999	999285	5/10/2000	69928747	12/7/2005	Granted	9/22/2019
GB	EPC	99250336.7	9/22/1999	999285	5/10/2000	999285	12/7/2005	Granted	9/22/2019
US	CIP	09/418,044	10/13/1999			6,486,286	11/26/2002	Granted	10/13/2018
US	ORD	09/419,817	10/18/1999			6,709,816	3/23/2004	Granted	10/18/2019
US	ORD	09/420,805	10/19/1999			6,287,778	9/11/2001	Granted	10/19/2019
US	ORD	09/428,350	10/27/1999			6,361,947	3/26/2002	Granted	10/27/2019
US	CON	09/429,521	10/28/1999			6,280,950	8/28/2001	Granted	3/10/2017
US	ORD	09/431,964	11/1/1999			6,340,565	1/22/2002	Granted	11/1/2019
US	PCT	09/341,399	11/17/1999			6,468,744	10/22/2002	Granted	1/3/2017
US	ORD	09/475,209	12/29/1999			6,612,737	9/2/2003	Granted	12/29/2019
US	CON	09/501,095	2/9/2000			6,391,623	5/21/2002	Granted	3/26/2016
US	CIP	09/500,548	2/9/2000			6,407,858	6/18/2002	Granted	5/14/2018
US	CIP	09/501,099	2/9/2000			6,428,752	8/6/2002	Granted	5/14/2018
US	ORD	09/500,626	2/9/2000			6,472,671	10/29/2002	Granted	2/9/2020
JP	PCT	2000-511053	3/8/2000			4150499	7/4/2008	Granted	9/8/2018
US	DIV	09/523,417	3/10/2000			6,326,211	12/4/2001	Granted	1/19/2016
US	CON	09/525,045	3/14/2000			6,566,515	5/20/2003	Granted	3/5/2017
US	PCT	09/445,734	3/14/2000			6,368,799	4/9/2002	Granted	6/11/2018
US	ORD	09/535,142	3/24/2000			6,403,317	6/11/2002	Granted	3/24/2020
US	CON	09/542,151	4/4/2000			6,611,767	8/26/2003	Granted	12/23/2017
US	ORD	09/545,207	4/7/2000			6,824,866	11/30/2004	Granted	4/7/2020
US	CON	09/578,282	5/25/2000			6,770,436	8/3/2004	Granted	11/13/2017
US	CIP	09/579,076	5/25/2000			6,554,986	4/29/2003	Granted	1/27/2019
SG	ORD	200003076-7	6/2/2000	86404	2/19/2002	86404	1/30/2004	Granted	6/2/2020
US	ORD	09/603,999	6/26/2000			6,638,719	10/28/2003	Granted	6/26/2020

PATENT

REEL: 036988 FRAME: 0192

Use of Pooled Probes In Genetic Analysis
Use of Pooled Probes In Genetic Analysis
Use of Pooled Probes In Genetic Analysis
Use of Pooled Probes In Genetic Analysis
Systems and Methods for High Performance Scanning
Method of Genetic Analysis Using Nucleic Acid Arrays
Methods and Compositions for Amplifying Detectable Signals In Specific Binding Assays
Methods and Compositions for Amplifying Detectable Signals In Specific Binding Assays
Methods and Compositions for Amplifying Detectable Signals In Specific Binding Assays
Methods and Compositions for Amplifying Detectable Signals In Specific Binding Assays
Use of hexahydrulupulones as antibacterial agents
Identification of Alleles
Allele Detection using Primer Extension with Sequence Coded Identity Tags
Complexity Management and Analysis of Genomic Data
Nucleic Acid Affinity Columns
Determining Signal Transduction Pathways
Analysis of Genetic Polymorphisms and Gene Copy Number
System & Method for Self-Calibrating Measurement
Fluidics Station with Injection Needles with Distal End and Side Ports and Method of Using
Focusing of Microscopes and Reading of Micro Arrays
Cleaning Deposit Devices that Form Micro Arrays and the like
Quantified Fluorescence Microscopy
APPARATUS AND METHOD FOR IMAGING SAMPLES LABELED WITH LIGHT-SCATTERING MATERIAL
Method of manipulating a gas bubble in a microfluidic device
Photocleavable Protecting Groups and Methods for Their Use
Method to detect gene polymorphisms and monitor allelic expression employing a probe array
Electronic Detection of Hybridization on Nucleic Acid Arrays
Scanned Image Alignment Systems and Methods
Porous Silica Substrates for Polymer Synthesis and Assays
Chemical Amplification for the Synthesis of Patterned Arrays
Capillary Array Electrophoresis Scanner
Position Sensing with Variable Capacitance Transducers
Genotyping Biallelic Markers

US	ORD	09/603,862	6/26/2000																
JP	PCT	2000-530533	8/4/2000	527717		8/27/2002	3495702		5/14/2002	Granted		6/26/2020							
US	ORD	09/636,517	8/10/2000				6,422,249		11/21/2003	Granted		2/5/2019							
AU	DIV	53649/00	8/25/2000	751557					7/23/2002	Granted		2/1/2021							
US	ORD	09/652,962	8/31/2000			8/22/2002	751557		12/19/2002	Granted		9/13/2016							
EP	ORD	307541.3	9/1/2000	1081163			6,994,964		2/7/2006	Granted		8/31/2020							
JP	ORD	2000-266267	9/1/2000			3/7/2001	1081163		11/23/2005	Granted		9/1/2020							
DE	EPC	307541.3	9/1/2000	1081163			3618285		11/19/2004	Granted		9/1/2020							
GB	EPC	307541.3	9/1/2000	1081163		3/7/2001	60024181		11/23/2005	Granted		9/1/2020							
FR	EPC	307541.3	9/1/2000	1081163		3/7/2001	1081163		11/23/2005	Granted		9/1/2020							
US	CON	09/665,544	9/19/2000				1081163		11/23/2005	Granted		9/1/2020							
US	ORD	09/668,118	9/22/2000				6,335,824		1/1/2002	Granted		3/20/2018							
US	ORD	09/670,510	9/26/2000				6,694,321		2/17/2004	Granted		2/27/2021							
US	ORD	09/689,937	10/11/2000				6,505,125		1/7/2003	Granted		5/3/2021							
US	ORD	09/687,932	10/13/2000				6,613,516		9/2/2003	Granted		6/23/2021							
US	ORD	09/691,702	10/17/2000				6,803,196		10/12/2004	Granted		10/13/2020							
US	ORD	09/693,204	10/19/2000				6,511,277		1/28/2003	Granted		10/21/2020							
US	CON	09/705,335	11/2/2000				6,841,348		1/11/2005	Granted		5/16/2021							
US	CON	09/716,507	11/20/2000				6,687,692		2/3/2004	Granted		7/15/2019							
US	CON	09/724,938	11/28/2000				6,706,875		3/16/2004	Granted		8/3/2016							
US	ORD	09/734,752	12/11/2000	44104		11/22/2001	6,924,094		8/2/2005	Granted		4/8/2016							
US	ORD	09/734,751	12/11/2000	106126			6,884,578		4/26/2005	Granted		12/11/2020							
US	ORD	09/735,574	12/12/2000	0103604-A1			6,907,146		6/14/2005	Granted		6/4/2022							
US	CON	09/737,838	12/14/2000	18642		8/1/2002	7,197,400		3/27/2007	Granted		9/22/2022							
US	ORD	09/738,035	12/14/2000	0076767-A1		8/30/2001	6,826,296		11/30/2004	Granted		7/24/2018							
US	ORD	09/745,272	12/20/2000	0102547-A1		6/20/2002	6,391,592		5/21/2002	Granted		12/14/2020							
US	ORD	09/745,965	12/21/2000	0133301-A1			6,510,391		1/21/2003	Granted		8/1/2021							
US	CON	09/751,658	12/31/2000	36672		9/19/2002	7,117,095		10/3/2006	Granted		10/2/2022							
US	ORD	09/758,872	1/11/2001	16680		11/1/2001	6,830,936		12/14/2004	Granted		1/19/2016							
US	CON	09/764,337	1/16/2001	41965		2/7/2002	6,850,846		2/1/2005	Granted		4/20/2021							
US	CON	09/776,770	2/6/2001	41335		11/15/2001	6,584,410		6/24/2003	Granted		8/14/2018							
US	CON	09/779,389	2/7/2001			11/15/2001	6,806,047		10/19/2004	Granted		3/25/2019							
US	ORD	09/780,586	2/8/2001	8508			6,800,439		10/5/2004	Granted		12/8/2020							
						1/24/2002	6,531,864		3/11/2003	Granted		2/8/2021							

Systems and Methods for Heating and Mixing Fluids
Array Fabrication Methods
Cartridge Washing System and Methods
Expression Monitoring By Hybridization to High Density Oligonucleotide Arrays
Macromolecular Arrays on Polymeric Brushes and Methods for Preparing the Same
Macromolecular Arrays on Polymeric Brushes and Methods for Preparing the Same
POLYMER ARRAY FOR POLYMERIC BRUSH AND METHOD FOR PREPARING THE SAME
Macromolecular Arrays on Polymeric Brushes and Methods for Preparing the Same
Macromolecular Arrays on Polymeric Brushes and Methods for Preparing the Same
Macromolecular Arrays on Polymeric Brushes and Methods for Preparing the Same
Wide Field of View and High Speed Scanning Microscopy
System, Method and Product for Development and Maintenance of Database-Related Software Applications
Methods and Computer Software Products for Multiple Probe Gene Expression Analysis
Preparation of Nucleic Acid Samples
Methods and Compositions for Detecting Signals in Binding Assays using Microparticles
Cartridge Loader and Methods
Methods for Identifying and Using Maintenance Genes
Method and Apparatus for Providing an Expression Data Mining Database
Substrate Preparation Process
Chip-Based Species Identification and Phenotypic Characterization of Microorganisms
Genes Differentially Expressed in Secretory Versus Proliferative Endometrium
Methods, Systems and Computer Software for Detecting Pixel Stutter
Systems and Computer Software Products for Comparative Gene Expression Analysis
Method and System for Providing a Probe Array Chip Design Database
Blocker-Aided Target Amplification of Nucleic Acids
Computer Software Products for Nucleic Acid Hybridization Analysis
Methods for selecting nucleic acid probes
Integrated Nucleic Acid Diagnostic Device
Computer Software for Genotyping Analysis Using Pattern Recognition
Polymorphism Detection Utilizing Clustering Analysis
Methods and Compositions for Amplifying Detectable Signals In Specific Binding Assays
Methods for Improved Array Preparation
HIGH TORQUE ELECTROMAGNETIC DEVICES

US	CIP	09/780,574	2/9/2001	44531	11/22/2001	6,596,856	7/22/2003	Granted	10/9/2018
EP	PCT	1907186.9	2/9/2001	01/59503		1254392	1/30/2008	Granted	2/9/2021
GB	EPP	1907186.9	2/9/2001	01/59503		1254392	1/30/2008	Granted	2/9/2021
DE	EPP	1907186.9	2/9/2001	01/59503		60132656	1/30/2008	Granted	2/9/2021
CH	EPP	1907186.9	2/9/2001	01/59503		1254392	1/30/2008	Granted	2/9/2021
CN	PCT	1809310.8	3/12/2001	01/69200	9/20/2001	1809310.8	3/2/2005	Granted	3/12/2021
EP	ORD	1105480.6	3/14/2001	1136933	10/23/2002	1136933	6/9/2004	Granted	3/14/2021
DE	EPC	1105480.6	3/14/2001	1136933	10/23/2002	60103682.4	6/9/2004	Granted	3/14/2021
FR	EPC	1105480.6	3/14/2001	1136933	10/23/2002	1136933	6/9/2004	Granted	3/14/2021
GB	EPC	1105480.6	3/14/2001	1136933	10/23/2002	1136933	6/9/2004	Granted	3/14/2021
US	ORD	09/810,434	3/15/2001			6,833,450	12/21/2004	Granted	3/15/2021
US	ORD	09/811,143	3/15/2001			6,806,361	10/19/2004	Granted	3/15/2021
US	CON	09/812,706	3/19/2001			6,436,647	8/20/2002	Granted	6/16/2018
US	ORD	09/812,808	3/20/2001	51362	12/13/2001	6,379,940	4/30/2002	Granted	3/20/2021
CA	PCT	2,403,438	3/20/2001	2001/70943	9/27/2001	2,403,438	10/21/2008	Granted	3/20/2021
JP	PCT	2001-569326	3/20/2001	2004501611	9/27/2001	3803295	5/12/2006	Granted	3/20/2021
US	ORD	09/824,931	4/3/2001	0102564-A1	8/1/2002	6,949,638	9/27/2005	Granted	7/2/2022
US	ORD	09/827,383	4/4/2001			7,157,564	1/2/2007	Granted	8/17/2023
US	DIV	09/832,656	4/11/2001	21506	9/13/2001	6,429,275	8/6/2002	Granted	10/13/2018
US	DIV	09/832,489	4/11/2001	14453	8/16/2001	6,486,287	11/26/2002	Granted	10/13/2018
US	DIV	09/832,490	4/11/2001	27187	10/4/2001	6,410,675	6/25/2002	Granted	10/13/2018
US	CON	09/836,867	4/16/2001	12456	1/31/2002	6,567,540	5/20/2003	Granted	7/24/2018
US	DIV	09/836,278	4/18/2001	28454	3/7/2002	6,733,969	5/11/2004	Granted	1/12/2018
US	ORD	09/854,317	5/11/2001			6,582,938	6/24/2003	Granted	6/6/2021
US	CON	09/862,177	5/21/2001	83998	7/4/2002	6,722,395	4/20/2004	Granted	1/13/2018
US	ORD	09/870,558	5/31/2001	18202	2/14/2002	6,643,076	11/4/2003	Granted	9/15/2021
US	ORD	09/871,610	6/1/2001			7,005,259	2/28/2006	Granted	6/1/2021
US	ORD	09/877,738	6/8/2001	22173	1/30/2003	6,924,113	8/2/2005	Granted	6/8/2021
US	ORD	09/877,243	6/8/2001			6,696,256	2/24/2004	Granted	6/8/2021
US	ORD	09/877,705	6/8/2001	8283	1/9/2003	6,821,737	11/23/2004	Granted	6/8/2021
US	ORD	09/681,819	6/11/2001	0047853-A1	4/25/2002	6,829,376	12/7/2004	Granted	6/14/2023
US	CON	09/880,727	6/13/2001	0064364-A1	4/3/2003	6,858,711	2/22/2005	Granted	2/28/2017
US	PCT	10/311,820	6/25/2001	125370	7/1/2004	7,158,224	1/2/2007	Granted	1/26/2022

PATENT

REEL: 036988 FRAME: 0196

Nucleic acid labeling compounds
Quantified Fluorescence Microscopy
Quantified Fluorescence Microscopy
Quantified Fluorescence Microscopy
Quantified Fluorescence Microscopy
Methods for detection of differences in nucleic acids
Systems and methods for gene expression analysis
Systems and methods for gene expression analysis
Systems and methods for gene expression analysis
Systems and methods for gene expression analysis
Systems and methods for gene expression analysis
Phosphite Ester Oxidation in Nucleic Acid Array Preparation
Methods of Enhancing Functional Performance of Nucleic Acid Arrays
Method for detecting chemical interactions between naturally occurring biological analyte molecules that are non-identical binding partners
Stable Composition Comprising a Nuclease and a Phosphatase
Stable Composition Comprising a Nuclease and a Phosphatase
Stable Composition Comprising a Nuclease and a Phosphatase
Stable Composition Comprising a Nuclease and a Phosphatase
Photolithographic Method and System for Efficient Mask Usage in Manufacturing DNA Arrays
Tag Nucleic Acids and Probe Arrays
Functionalized Silicon Compounds and Methods for Their Synthesis and Use
Functionalized Silicon Compounds and Methods for Their Synthesis and Use
Functionalized Silicon Compounds and Methods for Their Synthesis and Use
Functionalized Silicon Compounds and Methods for Their Synthesis and Use
Method and Apparatus for Providing a Bioinformatics Database
Expression Monitoring for Gene Function Identification
Amplification of Nucleic Acids
Depositing Fluid Specimens on Substrates, Resulting Ordered Arrays, Techniques for analysis of deposited arrays
Attachment Device
New Methods for Array Preparation Using Substrate Rotation
Method and kit for isolating DNA probes that bind to activated transcription factors
Method, Array and Kit for Detecting Activated Transcription Factors By Hybridization Array
Methods for screening for drug candidates for modulating transcription factor activity
Computer Software System, Method, and Product for Scanned Image Alignment
Labeling Reagents
Optically Active Substrates

US	DIV	09/900,845	7/6/2001	55771	12/27/2001	6,524,800	2/25/2003	Granted	12/18/2018
US	CON	09/904,039	7/12/2001	0142314-A1	10/3/2002	7,267,966	9/11/2007	Granted	10/27/2019
US	ORD	09/682,074	7/17/2001	24026	2/28/2002	6,789,040	9/7/2004	Granted	3/24/2022
US	ORD	09/682,076	7/17/2001	25082	2/28/2002	6,965,704	11/15/2005	Granted	12/21/2022
US	ORD	09/682,071	7/17/2001	168094-A1	11/14/2002	7,062,092	6/13/2006	Granted	2/21/2023
US	DIV	09/910,223	7/20/2001	53526	12/20/2001	6,440,677	8/27/2002	Granted	3/10/2017
US	ORD	09/910,292	7/20/2001	0082543-A1	5/1/2003	6,632,611	10/14/2003	Granted	7/20/2021
US	CIP	09/920,491	7/31/2001	0096235-A1	5/22/2003	6,958,225	10/25/2005	Granted	10/27/2019
US	DIV	09/919,544	7/31/2001	4235	1/10/2002	6,387,634	5/14/2002	Granted	3/20/2021
US	ORD	09/922,426	8/3/2001	22721	2/21/2002	6,887,665	5/3/2005	Granted	8/3/2021
US	CON	09/930,536	8/14/2001	106663-A1	8/8/2002	6,852,490	2/8/2005	Granted	8/24/2018
US	CON	09/940,285	8/27/2001	62319	5/23/2002	6,532,462	3/11/2003	Granted	7/24/2018
US	CIP	09/947,274	9/5/2001	17499	1/23/2003	7,981,842	7/19/2011	Granted	6/8/2021
US	CIP	09/952,387	9/11/2001	0165372-A1	11/7/2002	6,965,020	11/15/2005	Granted	6/11/2017
US	CIP	09/961,709	9/24/2001			6,794,138	9/21/2004	Granted	4/22/2021
US	CON	09/989,441	11/21/2001	0058281-A1	5/16/2002	6,673,579	1/6/2004	Granted	6/18/2018
US	ORD	09/683,216	12/3/2001	161529	10/31/2002	6,490,533	12/3/2002	Granted	12/3/2021
US	ORD	09/683,221	12/3/2001	0104367-A1	6/5/2003	6,670,122	12/30/2003	Granted	12/3/2021
US	ORD	09/683,217	12/3/2001	159057	10/31/2002	6,650,411	11/18/2003	Granted	4/16/2022
US	ORD	09/683,219	12/3/2001	159058	10/31/2002	6,643,015	11/4/2003	Granted	4/16/2022
US	ORD	09/683,264	12/5/2001	23384	1/30/2003	7,133,780	11/7/2006	Granted	12/5/2021
US	CIP	10/013,598	12/10/2001	0036069-A1	2/20/2003	6,872,529	3/29/2005	Granted	11/21/2021
US	ORD	09/683,298	12/11/2001	108868	6/12/2003	6,955,788	10/18/2005	Granted	4/26/2022
US	CON	10/034,620	12/27/2001	154396-A1	10/24/2002	7,312,919	12/25/2007	Granted	3/20/2018
US	ORD	10/053,516	1/16/2002	134288	7/17/2003	7,056,665	6/6/2006	Granted	1/16/2022
US	CON	10/051,020	1/22/2002	94518	7/18/2002	6,746,844	6/8/2004	Granted	11/1/2019
US	CON	10/062,431	1/30/2002	0071339-A1	6/13/2002	6,705,754	3/16/2004	Granted	1/30/2018
US	ORD	09/683,982	3/8/2002	0128993-A1	9/12/2002	6,804,679	10/12/2004	Granted	9/17/2022
US	ORD	09/683,980	3/8/2002	0129009-A1	9/12/2002	6,816,867	11/9/2004	Granted	12/10/2022
US	ORD	10/099,442	3/12/2002	0182625-A1	12/5/2002	7,468,243	12/23/2008	Granted	1/30/2017
EP	PCT	2734638.6	5/30/2002	1402065	7/10/2003	7,135,285	11/14/2006	Granted	9/18/2017
DE	EPC	2734638.6	5/30/2002	1402065	12/19/2002	1402065	1/28/2015	Granted	5/30/2022
					12/19/2002	60246946	1/28/2015	Granted	5/30/2022

PATENT

REEL: 036988 FRAME: 0198

Exploiting Genomics in the Search for New Drugs
Complexity Management and Analysis of Genomic Data
System, Method and Computer Software Product for Specifying a Scanning Area of a Substrate
System, Method, and Computer Software Product for Grid Alignment of Multiple Scanned Images
System and Method and Computer Software Product for Gain Adjustment in Biological Microarray Scanner
Nucleic Acid Affinity Columns
Method of Target Enrichment and Amplification
Complexity management of genomic DNA
Stable Composition Comprising a Nuclease and a Phosphatase
Methods of Array Synthesis
Methods of Using an Array of Pooled Probes in Genetic Analysis
Gene Expression and Evaluation System using a Filter Table with a Gene Expression Database
Method for detecting transcription factor-protein interactions
Nucleic Acid Labeling Compounds
Methods of Small Sample Amplification
Methods and Compositions for Multiplex Amplification of Nucleic Acids
System, Method and Product for Dynamic Noise Reduction in Scanning of Biological Materials
Method for Detecting Transcription Templates
System, Method and Product for Pixel Clacking in Scanning of Biological Materials
System, Method and Product for Symmetrical Filtering in Scanning of Biological Materials
Computer Software for Automated Annotation of Biological Sequences
Complexity Management of Genomic DNA
Apparatus and Method for Aligning Microarray Printing Head
Wide Field of View and High Speed Scanning Microscopy
Screening methods involving the detection of short-lived proteins
Determining Signal Transduction Pathways
Device and Methods for Mixing Fluids
System, Method and User Interfaces for Managing Genomic Data
System, Method and User Interfaces for Mining of Genomic Data
2-aminopyrimidin-4-one nucleic acid labeling compounds
Identification of molecular sequence signatures and methods involving the same
Method for detecting transcription factor-protein interactions
Method for detecting transcription factor-protein interactions

FR	EPC	2734638.6	5/30/2002	1402065	12/19/2002	1402065	1/28/2015	Granted	5/30/2022
GB	EPC	2734638.6	5/30/2002	1402065	12/19/2002	1402065	1/28/2015	Granted	5/30/2022
US	ORD	10/177,169	6/20/2002	235824	12/25/2003	7,332,273	2/19/2008	Granted	6/20/2022
US	CON	10/180,588	6/26/2002	164235	11/7/2002	6,604,902	8/12/2003	Granted	10/21/2020
US	CON	10/191,420	7/8/2002	185610	12/12/2002	6,597,000	7/22/2003	Granted	5/15/2017
US	DIV	10/194,508	7/11/2002	0174884-A1	11/28/2002	6,715,500	4/6/2004	Granted	8/10/2020
US	CIP	10/197,369	7/17/2002	38812	2/27/2003	7,130,458	10/31/2006	Granted	4/16/2023
US	CON	10/199,968	7/20/2002			6,638,770	10/28/2003	Granted	2/9/2020
US	PCT	09/980,194	7/23/2002			6,819,843	11/16/2004	Granted	5/12/2020
US	CON	10/214,221	8/7/2002	0015668-A1	1/23/2003	6,984,828	1/10/2006	Granted	2/9/2020
US	CON	10/219,006	8/14/2002	0013114-A1	1/16/2003	6,828,104	12/7/2004	Granted	3/10/2017
US	CIP	10/219,503	8/15/2002	0009292-A1	1/9/2003	6,988,040	1/17/2006	Granted	10/12/2021
US	ORD	10/219,882	8/15/2002	0036087-A1	2/20/2003	7,031,846	4/18/2006	Granted	2/15/2023
US	CIP	10/264,945	10/4/2002	67493	4/8/2004	7,297,778	11/20/2007	Granted	8/27/2022
US	ORD	10/272,155	10/14/2002	232348	12/18/2003	7,108,976	9/19/2006	Granted	10/14/2022
US	DIV	10/282,979	10/29/2002	77650	4/24/2003	6,743,882	6/1/2004	Granted	11/12/2018
US	ORD	10/300,285	11/19/2002	104459	6/5/2003	7,510,829	3/31/2009	Granted	11/19/2022
EP	PCT	2803689.5	11/19/2002	1453979	9/8/2004	1453979	1/4/2012	Granted	11/19/2022
DE	EPP	2803689.5	11/19/2002	1453979	9/8/2004	60241918.2	1/4/2012	Granted	11/19/2022
FR	EPP	2803689.5	11/19/2002	1453979	9/8/2004	1453979	1/4/2012	Granted	11/19/2022
GB	EPP	2803689.5	11/19/2002	1453979	9/8/2004	1453979	1/4/2012	Granted	11/19/2022
CN	PRI	2826591.2	11/19/2002	1610758A	4/27/2005	ZL02826591	6/25/2008	Granted	11/19/2022
EP	PCT	2803690.3	11/19/2002	1456416	9/15/2004	1456416	3/11/2009	Granted	11/19/2022
FR	EPC	2803690.3	11/19/2002	1456416	9/15/2004	1456416	3/11/2009	Granted	11/19/2022
GB	EPC	2803690.3	11/19/2002	1456416	9/15/2004	1456416	3/11/2009	Granted	11/19/2022
US	ORD	10/300,311	11/19/2002	96291	5/22/2003	7,208,295	4/24/2007	Granted	2/16/2024
US	CON	10/304,092	11/25/2002	176980	9/18/2003	6,813,567	11/2/2004	Granted	12/3/2021
US	CIP	10/314,012	12/5/2002	0180757-A1	9/25/2003	6,864,059	3/8/2005	Granted	1/30/2017
US	ORD	10/313,652	12/6/2002	0109935-A1	6/10/2004	7,053,198	5/30/2006	Granted	12/6/2022
US	CON	10/315,919	12/9/2002	2817	1/1/2004	6,996,475	2/7/2006	Granted	8/1/2021
US	ORD	10/318,838	12/12/2002	8811	1/15/2004	6,985,655	1/10/2006	Granted	9/6/2023
US	ORD	10/319,150	12/13/2002	0115646-A1	6/17/2004	7,117,097	10/3/2006	Granted	12/13/2022
US	ORD	10/321,741	12/16/2002	232353	12/18/2003	7,097,976	8/29/2006	Granted	7/26/2024

PATENT

REEL: 036988 FRAME: 0200

Method for detecting transcription factor-protein interactions
Method for detecting transcription factor-protein interactions
Anti-reflective Coatings for High-Resolution Photolithographic Synthesis of DNA Arrays
Cartridge Loader and Methods
Systems and methods for Detection of Labeled Materials
Cartridge Washing System And Methods
Computer software system, method, and product for scanned image alignment
Cleaning deposit devices that generate microarrays
Device and Method for Photolithographically Irradiating Biological Substances
Quantified Fluorescence Microscopy
Nucleic Acid Affinity Columns
System, Method, and Computer Software for Genotyping Analysis and Identification of Allelic Imbalance
Method System and Computer Software for the Presentation and Storage of Analysis Results
Complexity Management of Genomic DNA
Complexity Management of Genomic DNA by Locus Specific Amplification
Functionalized Silicon Compounds and Methods for Their Synthesis and Use
Multiplex PCR (501.01)
Multiplex PCR (501.01)
Multiplex PCR (501.01)
Multiplex PCR (501.01)
Multiplex PCR (501.01)
Multiplex PCR (501.01)
Multiplex oligonucleotide addition and target amplification (506.01)
Multiplex oligonucleotide addition and target amplification (506.01)
Multiplex oligonucleotide addition and target amplification (506.01)
Multiplex oligonucleotide addition and target amplification (506.01)
Multiplex oligonucleotide addition and target amplification (506.01)
System, Method and Product for Dynamic Noise Reduction in Scanning of Biological Materials
Biotin Containing C-Glycoside Nucleic Acid Labeling Compounds
Functionated Photoacid Generator and Functionated Polymer System for Biological Microarray Synthesis
Computer Software Products for Nucleic Acid Hybridization Analysis
Compositions and methods involving direct write optical lithography
Methods and Computer Software Products and Systems for Correlating Gene Lists
Methods of Analysis of Allelic Imbalance

EP	PCT	2805666.1	12/19/2002	1458486	9/22/2004	1458486	9/17/2008	Granted	12/19/2022
CN	PCT	2825719.7	12/19/2002	03/053586	7/3/2003	2825719.7	10/25/2006	Granted	12/19/2022
FR	EPP	2805666.1	12/19/2002	1458486	9/22/2004	1458486	9/17/2008	Granted	12/19/2022
GB	EPP	2805666.1	12/19/2002	1458486	9/22/2004	1458486	9/17/2008	Granted	12/19/2022
DE	EPP	2805666.1	12/19/2002	1458486	9/22/2004	60228995	9/17/2008	Granted	12/19/2022
CN	PCT	2825717	12/23/2002	1606695A	4/13/2005	ZL 02825717	11/29/2006	Granted	12/23/2022
US	DIV	10/348,917	1/22/2003	144499	7/31/2003	6,881,836	4/19/2005	Granted	7/1/2016
US	CON	10/353,792	1/28/2003	215841	11/20/2003	6,927,032	8/9/2005	Granted	1/27/2016
US	CIP	10/370,442	2/19/2003	157545-A1	8/21/2003	6,954,699	10/11/2005	Granted	3/21/2022
US	CON	10/374,170	2/25/2003	125882	7/3/2003	6,882,742	4/19/2005	Granted	4/16/2021
EP	ORD	3400008.3	3/14/2003	1345026	9/17/2003	1345026	5/5/2010	Granted	3/14/2023
DE	EPC	3400008.3	3/14/2003	1345026	9/17/2003	60332406	5/5/2010	Granted	3/14/2023
FR	EPC	3400008.3	3/14/2003	1345026	9/17/2003	1345026	5/5/2010	Granted	3/14/2023
GB	EPC	3400008.3	3/14/2003	1345026	9/17/2003	1345026	5/5/2010	Granted	3/14/2023
US	ORD	10/389,194	3/14/2003	12676	1/22/2004	7,689,022	3/30/2010	Granted	1/25/2029
US	DIV	10/395,262	3/25/2003	143625	7/31/2003	6,803,229	10/12/2004	Granted	5/17/2016
US	CON	10/447,582	5/28/2003	0198549-A1	10/23/2003	7,108,472	9/19/2006	Granted	10/21/2020
US	CON	10/448,566	5/29/2003	232979	12/18/2003	7,089,121	8/8/2006	Granted	3/6/2023
US	DIV	10/452,375	6/2/2003	2595	1/1/2004	7,179,905	2/20/2007	Granted	8/8/2018
US	CON	10/452,519	6/2/2003	2595	1/1/2004	7,179,905	2/20/2007	Granted	10/9/2018
EP	PCT	3761207.4	6/20/2003	1540005	11/27/2013	1540005	11/27/2013	Granted	6/20/2023
DE	EPP	3761207.4	6/20/2003	1540005	11/27/2013	60345372	11/27/2013	Granted	6/20/2023
CH	EPP	3761207.4	6/20/2003	1540005	11/27/2013	1540005	11/27/2013	Granted	6/20/2023
FR	EPP	3761207.4	6/20/2003	1540005	11/27/2013	1540005	11/27/2013	Granted	6/20/2023
GB	EPP	3761207.4	6/20/2003	1540005	11/27/2013	1540005	11/27/2013	Granted	6/20/2023
US	CON	10/607,829	6/27/2003	1540005	10/11/2005	6,953,663	10/11/2005	Granted	11/29/2015
US	CON	10/639,696	8/11/2003	191630	9/11/2005	7,364,895	4/29/2008	Granted	12/30/2015
US	CIP	10/641,677	8/15/2003	0101892-A1	5/27/2004	7,282,327	10/16/2007	Granted	1/30/2017
US	DIV	10/654,281	9/2/2003	0132056-A1	7/8/2004	7,214,490	5/8/2007	Granted	12/13/2022
JP	DIV	2003-333828	9/25/2003			3711352	8/17/2005	Granted	12/17/2017
EP	PCT	3770601.7	9/30/2003	1551986	7/13/2005	1551986	8/27/2014	Granted	9/30/2023
GB	PCT	3770601.7	9/30/2003	1551986	7/13/2005	1551986	8/27/2014	Granted	9/30/2023
DE	PCT	3770601.7	9/30/2003	1551986	7/13/2005	60346686	8/27/2014	Granted	9/30/2023

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REEL: 036988 FRAME: 0202

ARRAY PLATES AND METHOD FOR CONSTRUCTING ARRAY PLATES
Apparatus and Methods for Constructing Array Plates
ARRAY PLATES AND METHOD FOR CONSTRUCTING ARRAY PLATES
ARRAY PLATES AND METHOD FOR CONSTRUCTING ARRAY PLATES
ARRAY PLATES AND METHOD FOR CONSTRUCTING ARRAY PLATES
High throughput Resequencing and Variation Detection Using High Density Microarrays
Photocleavable Protecting Groups and Methods for Their Use
Expression Monitoring by Hybridization to High Density Oligonucleotide Arrays
System and Method for Programatic Access to Biological Probe Array Data
Method and Apparatus for Providing a Bioinformatics Database
System and method for scanning of biological materials
System and method for scanning of biological materials
System and method for scanning of biological materials
System and method for scanning of biological materials
System and method for scanning of biological materials
System, Method and Product for Scanning of Biological Materials
Procedure for Analysis of Biological Substances in a Conductive Liquid Medium
Cartridge Loader and Methods
Methods for Monitoring the Expression of Alternately Spliced Genes
Nucleic Acid Labeling Compounds
Nucleic Acid Labeling Compounds
Anti-reflective Coatings for High-Resolution Photolithographic Synthesis of DNA Arrays
Anti-reflective Coatings for High-Resolution Photolithographic Synthesis of DNA Arrays
Anti-reflective Coatings for High-Resolution Photolithographic Synthesis of DNA Arrays
Anti-reflective Coatings for High-Resolution Photolithographic Synthesis of DNA Arrays
Anti-reflective Coatings for High-Resolution Photolithographic Synthesis of DNA Arrays
Polymorphism Detection
Bioarray Chip Reaction Apparatus and its Manufacture
Nucleic Acid Labeling Compounds
Method of Target Enrichment and Amplification
Design of Lithography Mask and Synthesis of Various Probe on Substrate
Polynucleotide Synthesis and Labeling by Kinetic Sampling Ligation (502.02)
Polynucleotide Synthesis and Labeling by Kinetic Sampling Ligation (502.02)
Polynucleotide Synthesis and Labeling by Kinetic Sampling Ligation (502.02)

FR	PCT	3770601.7	9/30/2003	1551986	7/13/2005	1551986	8/27/2014	Granted	9/30/2023
US	ORD	10/681,773	10/7/2003	146890	7/29/2004	7,300,788	11/27/2007	Granted	7/26/2024
US	PCT	10/476,603	11/1/2003	151628	8/5/2004	7,314,595	1/1/2008	Granted	10/31/2024
US	ORD	10/712,616	11/12/2003	157243	8/12/2004	7,424,368	9/9/2008	Granted	2/8/2025
DE	EPP	3786884.1	11/17/2003	2004046339	6/3/2004	60331580	3/3/2010	Granted	11/17/2023
GB	EPP	3786884.1	11/17/2003	2004046339	6/3/2004	1567662	3/3/2010	Granted	11/17/2023
EP	PCT	3786884.1	11/17/2003	2004046339	6/3/2004	1567662	3/3/2010	Granted	11/17/2023
US	ORD	10/716,174	11/17/2003	166553	8/26/2004	7,541,193	6/2/2009	Granted	7/8/2025
US	ORD	10/716,176	11/17/2003	51706	3/10/2005	7,271,886	9/18/2007	Granted	10/27/2025
US	DIV	10/727,877	12/3/2003	114456	6/17/2004	7,125,161	10/24/2006	Granted	7/1/2018
SG	PCT	200503796-5	12/12/2003			113253	10/31/2006	Granted	12/12/2023
US	ORD	10/741,068	12/19/2003	164207	7/28/2005	7,314,714	1/1/2008	Granted	12/5/2024
US	CIP	10/745,916	12/23/2003	3496	1/6/2005	7,291,463	11/6/2007	Granted	3/6/2018
US	DIV	10/743,376	12/23/2003	126806	7/1/2004	7,053,206	5/30/2006	Granted	6/18/2018
US	ORD	10/846,261	5/13/2004	1176	1/6/2005	7,148,492	12/12/2006	Granted	5/13/2024
US	DIV	10/853,378	5/25/2004	215031	10/28/2004	7,129,307	10/31/2006	Granted	10/13/2018
US	DIV	10/857,329	5/28/2004	123775	6/9/2005	7,125,947	10/24/2006	Granted	10/13/2018
US	DIV	10/857,283	5/28/2004	214819	10/28/2004	7,098,286	8/29/2006	Granted	10/20/2018
US	CON	10/857,247	5/28/2004	253460	12/16/2004	7,129,308	10/31/2006	Granted	2/19/2019
US	CON	10/880,105	6/28/2004	234788	11/25/2004	7,176,297	2/13/2007	Granted	7/9/2022
US	CON	10/911,065	8/4/2004	69927	3/31/2005	7,323,307	1/29/2008	Granted	10/6/2018
US	ORD	10/912,445	8/5/2004	142577	6/30/2005	7,459,273	12/2/2008	Granted	5/25/2025
US	ORD	10/913,102	8/6/2004	59062	3/17/2005	7,317,415	1/8/2008	Granted	10/26/2025
US	CON	10/925,393	8/24/2004	26203	2/3/2005	7,068,830	6/27/2006	Granted	7/24/2018
US	ORD	10/934,048	9/3/2004	51770	3/9/2006	7,312,035	12/25/2007	Granted	10/21/2025
US	CON	10/942,479	9/16/2004	26212	2/3/2005	7,662,559	2/16/2010	Granted	7/6/2017
US	DIV	10/967,892	10/18/2004	69189	3/31/2005	7,116,809	10/3/2006	Granted	6/11/2021
US	CON	10/973,418	10/27/2004	112654	5/26/2005	7,222,025	5/22/2007	Granted	12/3/2021
US	CON	10/975,788	10/27/2004	57676	3/17/2005	7,871,812	1/18/2011	Granted	7/1/2027
US	DIV	10/981,222	11/3/2004	79536	4/14/2005	7,202,039	4/10/2007	Granted	7/25/2021
US	CIP	10/983,046	11/4/2004	160096	7/20/2006	7,504,215	3/17/2009	Granted	1/31/2024
US	ORD	11/016,672	12/17/2004	227260	10/13/2005	7,217,521	5/15/2007	Granted	11/25/2025
US	DIV	11/037,065	1/18/2005	164268	7/28/2005	7,491,818	2/17/2009	Granted	11/4/2019

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REEL: 036988 FRAME: 0204

US	CON	11/050,647	2/4/2005	204970	9/14/2006	7,252,948	8/7/2007	Granted	4/8/2016
EP	ORD	5250915.5	2/17/2005	1564306	8/17/2005	1564306	8/7/2013	Granted	2/17/2025
DE	EPC	5250915.5	2/17/2005	1564306	11/16/2005	6.02005E+11	8/7/2013	Granted	2/17/2025
FR	EPC	5250915.5	2/17/2005	1564306	11/16/2005	1564306	8/7/2013	Granted	2/17/2025
GB	EPC	5250915.5	2/17/2005	1564306	11/16/2005	1564306	8/7/2013	Granted	2/17/2025
US	CON	11/080,216	3/14/2005	157915	7/21/2005	7,215,804	5/8/2007	Granted	7/24/2018
US	CON	11/105,571	4/14/2005	266148	12/1/2005	7,470,783	12/30/2008	Granted	12/27/2016
US	ORD	11/121,849	5/3/2005	272080	12/8/2005	7,374,927	5/20/2008	Granted	9/13/2025
US	CON	11/125,338	5/10/2005	287563	12/29/2005	7,423,143	9/9/2008	Granted	1/30/2017
US	CON	11/145,529	6/3/2005	285049	12/29/2005	7,095,032	8/22/2006	Granted	3/20/2018
US	ORD	11/152,460	6/14/2005	281098	12/14/2006	7,368,242	5/6/2008	Granted	11/7/2025
US	ORD	11/171,008	6/29/2005	29952	2/9/2006	7,700,281	4/20/2010	Granted	11/30/2027
EP	PCT	5764400.7	6/30/2005	1778866	5/2/2007	1778866	10/5/2011	Granted	6/30/2025
JP	PCT	2007-519541	6/30/2005	06/005074	1/12/2006	5020074	6/22/2012	Granted	6/30/2025
DE	EPP	5764400.7	6/30/2005	EP1778866	5/2/2007	6.02005E+11	10/5/2011	Granted	6/30/2025
FR	EPP	5764400.7	6/30/2005	EP1778866	5/2/2007	1778866	10/5/2011	Granted	6/30/2025
GB	EPP	5764400.7	6/30/2005	EP1778866	5/2/2007	1778866	10/5/2011	Granted	6/30/2025
US	CON	11/181,584	7/14/2005	250151	11/10/2005	7,280,922	10/9/2007	Granted	1/11/2021
US	CON	11/215,900	8/31/2005	74563	4/6/2006	7,451,047	11/11/2008	Granted	3/21/2022
US	ORD	11/231,266	9/20/2005	239380	10/11/2007	7,406,391	7/29/2008	Granted	4/29/2026
US	CIP	11/243,621	10/4/2005	88863	4/27/2006	8,652,774	2/18/2014	Granted	5/22/2028
EP	ORD	5256228.7	10/5/2005	1645640	4/12/2006	1645640	8/21/2013	Granted	10/5/2025
GB	EPC	5256228.7	10/5/2005	1645640	2/10/2010	1645640	8/21/2013	Granted	10/5/2025
DE	EPC	5256228.7	10/5/2005	1645640	2/10/2010	6.02005E+11	8/21/2013	Granted	10/5/2025
FR	EPC	5256228.7	10/5/2005	1645640	2/10/2010	1645640	8/21/2013	Granted	10/5/2025
US	DIV	11/256,505	10/21/2005	35274	2/16/2006	7,745,178	6/29/2010	Granted	10/27/2019
US	ORD	11/260,617	10/27/2005	94048	5/4/2006	7,682,782	3/23/2010	Granted	1/18/2029
CN	PRI	10119374.6	10/31/2005	1821781A	8/23/2006	949627	5/23/2012	Granted	10/31/2025
US	CIP	11/295,225	12/5/2005	134674	6/22/2006	7,822,555	10/26/2010	Granted	5/4/2027
US	CON	11/303,037	12/14/2005	121517	6/8/2006	7,790,378	9/7/2010	Granted	1/16/2022
US	ORD	11/313,874	12/20/2005	147965	7/6/2006	7,354,720	4/8/2008	Granted	5/26/2026
US	ORD	11/323,067	12/30/2005	147969	7/6/2006	8,338,093	12/25/2012	Granted	12/12/2026
US	ORD	11/324,834	1/3/2006	147971	7/6/2006	7,547,775	6/16/2009	Granted	9/23/2026

PATENT

REEL: 036988 FRAME: 0206

Chip-Based Speciation and Phenotypic Characterization of Microorganisms
Methods for fragmenting and labeling DNA
Methods for fragmenting and labeling DNA
Methods for fragmenting and labeling DNA
Methods for fragmenting and labeling DNA
Method and Apparatus for Providing a Bioinformatics Database
Photocleavable Protecting Groups and Methods for Their Use
METHODS OF ANALYSIS OF DEGRADED NUCLEIC ACID SAMPLES
Nucleic Acid Labeling Compounds
Focusing of Microscopes and Reading of Microarrays
Method and Kits for Multiplex Hybridization Assays (516.00)
Novel Hot Start Nucleic Acid Amplification
Novel Hot Start Nucleic Acid Amplification
NOVEL HOT START NUCLEIC ACID AMPLIFICATION
Novel Hot Start Nucleic Acid Amplification
Novel Hot Start Nucleic Acid Amplification
Novel Hot Start Nucleic Acid Amplification
System, Method, and Computer Software for Genotyping Analysis and Identification of Allelic Imbalance
System and Method for Programmatic Access to Biological Probe Array Data
System, Method, and Computer Product for Detection Instrument Calibration
Automated Method of Manufacturing Polymer Arrays
Method for detecting chromosomal translocations
Method for detecting chromosomal translocations
Method for detecting chromosomal translocations
Method for detecting chromosomal translocations
Method for detecting chromosomal translocations
Method for detecting chromosomal translocations
Complexity management of genomic DNA
System, Method and Product for Multiple Wavelength Detection Using Single Source Excitation
Automated Method of Manufacturing Polymer Arrays
Methods for identifying DNA Copy Number Changes
Screening methods involving the detection of short-lived proteins
Label Free Analysis of Nucleic Acids
Primer Array Synthesis and Validation
Parallel Preparation of High Fidelity Probes in an Array Format

US	DIV	11/352,008	2/10/2006	167636	7/27/2006	7,991,560	8/2/2011	Granted	9/19/2025
US	CON	11/389,690	3/27/2006	259874	11/16/2006	7,992,098	8/2/2011	Granted	10/3/2024
CN	UTM	20100051.2	4/6/2006			20100051.2	1/16/2008	Granted	4/6/2016
CN	UTM	20100050.8	4/6/2006			20100050.8	3/26/2008	Granted	4/6/2016
CN	ORD	10073721	4/6/2006			CN1847848B	10/10/2012	Granted	4/6/2026
US	ORD	11/379,641	4/21/2006	253035	11/9/2006	8,351,026	1/8/2013	Granted	7/8/2026
CN	UTM	20112568.3	4/24/2006			20112568.3	5/21/2008	Granted	4/24/2016
US	ORD	11/381,125	5/1/2006	292597	12/28/2006	7,452,671	11/18/2008	Granted	5/1/2026
DE	EPP	6759290.7	5/8/2006	06/122002	11/16/2006	6,02006E+11	11/14/2012	Granted	5/8/2026
CH	EPP	6759290.7	5/8/2006	06/122002	11/16/2006	1880206	11/14/2012	Granted	5/8/2026
FR	EPP	6759290.7	5/8/2006	06/122002	11/16/2006	1880206	11/14/2012	Granted	5/8/2026
GB	EPP	6759290.7	5/8/2006	06/122002	11/16/2006	1880206	11/14/2012	Granted	5/8/2026
NL	EPP	6759290.7	5/8/2006	06/122002	11/16/2006	1880206	11/14/2012	Granted	5/8/2026
IT	EPP	6759290.7	5/8/2006	06/122002	11/16/2006	1880206	11/14/2012	Granted	5/8/2026
EP	PCT	6759290.7	5/8/2006	06/122002	11/16/2006	1880206	11/14/2012	Granted	5/8/2026
US	ORD	11/431,092	5/8/2006	263769	11/23/2006	8,628,918	1/14/2014	Granted	5/11/2026
DE	EPP	6759834.2	5/11/2006	1880025		6,02006E+11	3/16/2011	Granted	5/11/2026
FR	EPP	6759834.2	5/11/2006	1880025		1880025	3/16/2011	Granted	5/11/2026
IT	EPP	6759834.2	5/11/2006	1880025		1880025	3/16/2011	Granted	5/11/2026
NL	EPP	6759834.2	5/11/2006	1880025		1880025	3/16/2011	Granted	5/11/2026
GB	EPP	6759834.2	5/11/2006	1880025		1880025	3/16/2011	Granted	5/11/2026
US	ORD	11/433,081	5/11/2006	286583	12/21/2006	7,803,541	9/28/2010	Granted	5/11/2026
EP	PCT	6759834.2	5/11/2006	1880025		1880025	3/16/2011	Granted	5/11/2026
US	ORD	11/421,941	6/2/2006	275805	12/7/2006	7,962,289	6/14/2011	Granted	5/31/2029
US	CON	11/483,266	7/7/2006	43517	2/22/2007	8,204,695	6/19/2012	Granted	9/5/2018
US	CON	11/457,452	7/13/2006	16382	1/18/2007	7,881,875	2/1/2011	Granted	11/21/2026
US	CON	11/511,198	8/28/2006	292626	12/28/2006	8,029,997	10/4/2011	Granted	7/26/2024
JP	PCT	2008-531423	9/13/2006		7/19/2007	5452922	1/10/2014	Granted	9/13/2026
EP	PCT	6836128.6	9/13/2006	1933817	7/19/2007	1933817	3/12/2014	Granted	9/13/2026
DE	EPC	6836128.6	9/13/2006	1933817		6,02006E+11	3/12/2014	Granted	9/13/2026
GB	EPC	6836128.6	9/13/2006	1933817		1933817	3/12/2014	Granted	9/13/2026
FR	EPC	6836128.6	9/13/2006	1933817		1933817	3/12/2014	Granted	9/13/2026
CH	EPC	6836128.6	9/13/2006	1933817		1933817	3/12/2014	Granted	9/13/2026

PATENT

REEL: 036988 FRAME: 0208

System, Method, and Computer Software for the Presentation and Storage of Analysis Results
System and Method and Computer Software for Linked Window Interface
Fluidic System and Method for Processing Biological Microarrays in Personal Instrumentation
System and Method for Processing Large Number of Biological Microarrays
System and Method for Processing Large Number of Biological Microarrays
Methods and Devices for Reading Microarray
Methods and Devices for Reading Microarray
Methods for Genotyping with Selective Adaptor Ligation
Multiplex capture of nucleic acids
Multiplex capture of nucleic acids
Multiplex capture of nucleic acids
Multiplex capture of nucleic acids
Multiplex capture of nucleic acids
Multiplex capture of nucleic acids
Multiplex capture of nucleic acids
Multiplex capture of nucleic acids
Multiplex capture of nucleic acids
Multiplex Capture of Nucleic Acids
MULTIPLEX BRANCHED-CHAIN DNA ASSAYS
MULTIPLEX BRANCHED-CHAIN DNA ASSAYS
MULTIPLEX BRANCHED-CHAIN DNA ASSAYS
MULTIPLEX BRANCHED-CHAIN DNA ASSAYS
MULTIPLEX BRANCHED-CHAIN DNA ASSAYS
MULTIPLEX BRANCHED-CHAIN DNA ASSAYS
MULTIPLEX BRANCHED-CHAIN DNA ASSAYS
Multiple branched-chain DNA assays
MULTIPLEX BRANCHED-CHAIN DNA ASSAYS
SYSTEM, METHOD, AND COMPUTER PRODUCT FOR EXON ARRAY ANALYSIS
Techniques for Identifying, Confirming, Mapping, and Categorizing Polymers
Methods for Selecting a Collection of Single Nucleotide Polymorphisms
Methods of Analysis of Allelic Imbalance
Multiple step printing methods for microbarcodes
Encoded Microparticles
Encoded Microparticles
Encoded Microparticles
Encoded Microparticles
Encoded Microparticles
Encoded Microparticles
Encoded Microparticles

EP	DIV	12159104.4	9/13/2006	2485052	8/8/2012	2485052	5/6/2015	Granted	9/13/2026
GB	EDV	12159104.4	9/13/2006	2485052	8/8/2012	2485052	5/6/2015	Granted	9/13/2026
FR	EDV	12159104.4	9/13/2006	2485052	8/8/2012	2485052	5/6/2015	Granted	9/13/2026
CH	EDV	12159104.4	9/13/2006	2485052	8/8/2012	2485052	5/6/2015	Granted	9/13/2026
DE	EDV	12159104.4	9/13/2006	2485052	8/8/2012	6.02006E+11	5/6/2015	Granted	9/13/2026
US	ORD	11/521,058	9/13/2006	227279	9/9/2010	8.592,136	11/26/2013	Granted	7/1/2028
US	ORD	11/521,114	9/13/2006	148599	6/28/2007	7.745,092	6/29/2010	Granted	7/1/2028
US	ORD	11/521,057	9/13/2006	38559	2/14/2008	7.745,091	6/29/2010	Granted	2/13/2029
US	ORD	11/538,054	10/2/2006	148667	6/28/2007	7.962,291	6/14/2011	Granted	9/26/2028
US	ORD	11/543,752	10/4/2006	161015	7/12/2007	7.927,798	4/19/2011	Granted	5/11/2026
CN	UTM	2.0062E+11	11/2/2006	201041563		20157130.7	3/26/2008	Granted	11/2/2016
DE	EPP	6837254.9	11/9/2006	07/058898	5/24/2007	6.02006E+11	4/11/2012	Granted	11/9/2026
FR	EPP	6837254.9	11/9/2006	07/058898	5/24/2007	1951905	4/11/2012	Granted	11/9/2026
GB	EPP	6837254.9	11/9/2006	07/058898	5/24/2007	1951905	4/11/2012	Granted	11/9/2026
EP	PCT	6837254.9	11/9/2006	07/058898	5/24/2007	1951905	4/11/2012	Granted	11/9/2026
US	ORD	11/595,789	11/9/2006	161020	7/12/2007	8.017,360	9/13/2011	Granted	4/1/2027
US	ORD	11/608,233	12/7/2006	128647	6/7/2007	7.634,363	12/15/2009	Granted	12/7/2026
US	ORD	11/614,896	12/21/2006	238185	10/11/2007	7.951,601	5/31/2011	Granted	11/26/2028
US	ORD	11/617,431	12/28/2006	161778	7/12/2007	7.862,996	1/4/2011	Granted	10/7/2022
US	ORD	11/623,692	1/16/2007	265366	11/15/2007	7.452,673	11/18/2008	Granted	1/16/2027
US	ORD	11/627,876	1/26/2007	197911	8/23/2007	8.055,098	11/8/2011	Granted	4/14/2030
US	CON	11/670,165	2/1/2007	128084	6/7/2007	8.273,304	9/25/2012	Granted	8/20/2018
US	ORD	11/672,849	2/8/2007	4848	1/3/2008	8.340,950	12/25/2012	Granted	5/30/2030
US	ORD	11/674,726	2/14/2007	250809	10/25/2007	7.818,281	10/19/2010	Granted	2/8/2029
US	CON	11/675,980	2/16/2007	44920	2/21/2008	7.674,587	3/9/2010	Granted	11/29/2015
US	ORD	11/695,599	4/2/2007	243546	10/18/2007	7.901,882	3/8/2011	Granted	4/16/2027
US	CON	11/739,654	4/24/2007	4701	1/1/2009	7.754,451	7/13/2010	Granted	11/12/2023
US	CON	11/745,987	5/8/2007	29865	1/29/2009	8.084,197	12/27/2011	Granted	9/18/2017
CN	ORD	2.0071E+11	5/25/2007	101149379A	3/26/2008	ZL200710104	5/29/2013	Granted	5/25/2027
US	CIP	11/761,062	6/11/2007	267782	11/22/2007	8.007,267	8/30/2011	Granted	12/16/2026
US	CIP	11/761,007	6/11/2007	267335	11/22/2007	8.075,852	12/13/2011	Granted	5/5/2029
US	ORD	11/769,600	6/27/2007	232657	9/25/2008	8.009,889	8/30/2011	Granted	2/16/2030
US	ORD	11/777,914	7/13/2007	20938	1/24/2008	7.803,609	9/28/2010	Granted	12/31/2028

PATENT

REEL: 036988 FRAME: 0210

Encoded Microparticles
Encoded Microparticles
Encoded Microparticles
Encoded Microparticles
Encoded Microparticles
Methods for Producing Codes for Microparticles
Multiple Step Printing Methods for Microbarcodes
Miniaturized Microparticles
Methods and Computer Software for Detecting Splice Variant
Detection of Nucleic Acids from Whole Blood
Microfluidic Methods, Devices, and Systems for Fluid Handling
Detection of nucleic acids through amplification of surrogate nucleic acids
Detection of nucleic acids through amplification of surrogate nucleic acids
Detection of nucleic acids through amplification of surrogate nucleic acids
Detection of nucleic acids through amplification of surrogate nucleic acids
Detection of nucleic acids through amplification of surrogate nucleic acids
Detection of nucleic acids through amplification of surrogate nucleic acids
Methods for High Throughput Genotyping
Oxide Layers on Silicon Substrates for Effective Confocal Laser Microscopy
Use of acid scavengers for the synthesis of standard length and long-mer nucleic acid arrays
Photoacid Generators for the Synthesis of Oligo-DNA in a Polymer Matrix
System, Method, and Product for Imaging Probe Arrays with Small Feature Sizes
Analytical Biochemistry System with Robotically Carried Bioarray
Direct to Consumer Genotype-Based Products and Services
Computer software for visualizing recombination events in a group of individuals from recombination breakpoints and assignments in high density SNP
Polymorphism Detection
Analysis of Methylation Using Nucleic Acid Arrays
Multiplex oligonucleotide addition and target amplification
Identification of Molecular Sequence Signatures and Methods Involving the same
Silane Mixtures
System and Method for Making Lab Card by Embossing
System and Method for Bubble Removal
Feature Intensity Reconstruction of Biological Probe Array
System, Method, and Product for Generating Patterned Illumination

US	DIV	11/893,012	8/13/2007	30713	2/7/2008	7,551,271	6/23/2009	Granted	11/17/2023
EP	PCT	7836891.7	8/14/2007	2054505	5/6/2009	2054505	1/28/2015	Granted	8/14/2027
US	ORD	11/893,356	8/14/2007	50746	2/28/2008	7,968,327	6/28/2011	Granted	8/14/2027
GB	EPC	7836891.7	8/14/2007	2054505	5/6/2009	2054505	1/28/2015	Granted	8/14/2027
FR	EPC	7836891.7	8/14/2007	2054505	5/6/2009	2054505	1/28/2015	Granted	8/14/2027
DE	EPC	7836891.7	8/14/2007	2054505	5/6/2009	6,02007E+11	1/28/2015	Granted	8/14/2027
US	ORD	11/867,879	10/5/2007	29273	1/31/2013	8,518,479	8/27/2013	Granted	11/4/2029
US	DIV	11/874,858	10/18/2007	70796	3/20/2008	8,029,999	10/4/2011	Granted	12/3/2023
US	ORD	11/983,216	11/6/2007	176242	7/24/2008	7,615,351	11/10/2009	Granted	11/6/2027
US	DIV	11/939,820	11/14/2007	138878	6/12/2008	7,951,534	5/31/2011	Granted	6/29/2025
US	CON	11/962,715	12/21/2007	311128	12/9/2010	8,728,767	5/20/2014	Granted	12/5/2024
US	DIV	12/014,879	1/16/2008	119371	5/22/2008	7,790,389	9/7/2010	Granted	10/7/2022
US	ORD	12/016,195	1/17/2008	199916	8/21/2008	7,862,999	1/4/2011	Granted	6/29/2028
US	ORD	12/123,463	5/19/2008	287308	11/20/2008	8,200,440	6/12/2012	Granted	5/16/2030
CN	PCT	2.0088E+11	6/25/2008	09/014848	1/29/2009	102083575	9/17/2014	Granted	6/25/2028
US	ORD	12/215,607	6/25/2008	2009-0149340	6/11/2009	8,883,691	11/11/2014	Granted	11/18/2030
US	DIV	12/163,528	6/27/2008	287667	11/20/2008	8,026,057	9/27/2011	Granted	3/12/2022
US	CIP	12/187,503	8/7/2008	216656	8/26/2010	8,236,493	8/7/2012	Granted	2/27/2016
US	CON	12/212,320	9/17/2008	10524	1/8/2009	8,233,735	7/31/2012	Granted	5/27/2016
EP	PCT	8838435.9	10/2/2008	09/048530	4/16/2009	2203749	8/29/2012	Granted	10/2/2028
DE	EPP	8838435.9	10/2/2008	09/048530	4/16/2009	6,02008E+11	8/29/2012	Granted	10/2/2028
FR	EPP	8838435.9	10/2/2008	09/048530	4/16/2009	2203749	8/29/2012	Granted	10/2/2028
GB	EPP	8838435.9	10/2/2008	09/048530	4/16/2009	2203749	8/29/2012	Granted	10/2/2028
US	ORD	12/287,062	10/2/2008	131269	5/21/2009	8,114,681	2/14/2012	Granted	9/26/2029
US	DIV	12/256,256	10/22/2008	54258	2/26/2009	7,824,863	11/2/2010	Granted	8/9/2023
US	DIV	12/263,623	11/3/2008	62149	3/5/2009	7,863,344	1/4/2011	Granted	9/14/2027
US	CON	12/272,370	11/17/2008	75345	3/19/2009	8,133,667	3/13/2012	Granted	5/1/2026
US	ORD	12/326,596	12/2/2008	9294	1/13/2011	8,114,978	2/14/2012	Granted	12/3/2029
US	CIP	12/358,472	1/23/2009	215652	8/27/2009	8,105,821	1/31/2012	Granted	3/4/2027
US	DIV	12/360,945	1/28/2009	192050	7/30/2009	7,803,934	9/28/2010	Granted	1/3/2026
US	ORD	12/402,486	3/11/2009	2009-0239764	9/24/2009	9,074,244	7/7/2015	Granted	6/29/2031
US	CON	12/481,852	6/10/2009	69265	3/18/2010	8,796,186	8/5/2014	Granted	9/5/2027
US	DIV	12/587,523	10/7/2009	99175	4/22/2010	7,951,539	5/31/2011	Granted	11/6/2027

PATENT

REEL: 036988 FRAME: 0212

Uncaging devices

Nucleic acid quantification from tissue slides

Nucleic acid quantification from tissue slides

Nucleic acid quantification from tissue slides

Nucleic acid quantification from tissue slides

Nucleic acid quantification from tissue slides

Fabrication of fluidic features within a plastic substrate

Complexity Management of Genomic DNA

Two stage nucleic acid amplification using an amplification oligomer

Hot Start Nucleic Acid Amplification

Method of Oligonucleotide Synthesis

Anti-reflective Coatings for High-Resolution Photolithographic Synthesis of DNA Arrays

Multiplex Targeted Amplification Using Flap Nuclease

System, Method, and Computer Software Product for Genotype Determination Using Probe Array Data

Patterned Microcodes

Encoded Microparticles

Nucleic Acid Labeling Compounds

Methods of Enzymatic Discrimination Enhancement and Surface-Bound Double-Stranded DNA

Methods and Apparatus for Detection of Fluorescently Labeled Materials

Highly Multiplexed Particle-Based Assays

Highly Multiplexed Particle-Based Assays

Highly Multiplexed Particle-Based Assays

Highly Multiplexed Particle-Based Assays

Highly Multiplexed Particle-Based Assays

Nucleic Acid Labeling Methods

Photoacid Generators for the Synthesis of Oligo-DNA in a Polymer

Methods for Genotyping with Selective Adaptor Ligation

Methods for Genotyping Selected Polymorphism

Silane Mixtures

Parallel Preparation of High Fidelity Probes in an Array Format

Array-based translocation and rearrangement assays

System and methods for processing large number of biological microarrays

Two stage nucleic acid amplification using an amplification oligomer

US	CON	12/634,475	12/9/2009	331217	12/30/2010	8,067,578	11/29/2011	Granted	4/17/2016
US	CON	12/638,939	12/15/2009	144542	6/10/2010	7,991,564	8/2/2011	Granted	12/7/2026
US	ORD	12/643,864	12/21/2009	161266	6/24/2010	8,374,818	2/12/2013	Granted	2/6/2031
US	ORD	12/687,677	1/14/2010	184156	7/22/2010	8,129,168	3/6/2012	Granted	1/14/2030
US	ORD	12/690,101	1/19/2010	184618	7/22/2010	8,790,873	7/29/2014	Granted	9/16/2031
US	CON	12/692,729	1/25/2010	286924	11/11/2010	8,095,323	1/10/2012	Granted	11/29/2015
US	CON	12/697,910	2/1/2010	137147	6/3/2010	8,305,565	11/6/2012	Granted	2/7/2027
US	DIV	12/704,350	2/11/2010	142850	6/10/2010	7,983,467	7/19/2011	Granted	3/14/2023
US	CON	12/779,401	5/13/2010	290018	11/18/2010	8,168,368	5/1/2012	Granted	9/13/2026
US	CON	12/779,420	5/13/2010	297336	11/25/2010	8,088,555	1/3/2012	Granted	9/13/2026
US	CIP	12/779,413	5/13/2010	297448	11/25/2010	8,178,278	5/15/2012	Granted	1/10/2027
US	DIV	12/822,896	6/24/2010	292097	11/18/2010	7,993,883	8/9/2011	Granted	10/27/2019
US	DIV	12/832,781	7/8/2010	3716	1/6/2011	8,114,584	2/14/2012	Granted	6/20/2022
US	CON	12/838,279	7/16/2010	15098	1/20/2011	7,910,312	3/22/2011	Granted	12/28/2026
US	CON	12/804,733	7/27/2010	304394	12/2/2010	8,076,083	12/13/2011	Granted	1/16/2022
US	CON	12/804,904	7/29/2010	105351	5/5/2011	8,426,578	4/23/2013	Granted	5/11/2026
US	ORD	12/847,570	7/30/2010	28352	2/3/2011	8,445,201	5/21/2013	Granted	1/19/2031
US	DIV	12/855,450	8/12/2010	305006	12/2/2010	8,034,912	10/11/2011	Granted	1/3/2026
US	CON	12/858,237	8/17/2010	9289	1/13/2011	8,586,312	11/19/2013	Granted	8/24/2018
US	CON	12/879,419	9/10/2010	60768	3/10/2011	8,392,355	3/5/2013	Granted	4/7/2027
US	CON	12/882,064	9/14/2010	331218	12/30/2010	7,964,654	6/21/2011	Granted	1/16/2027
US	DIV	12/892,531	9/28/2010	82289	4/7/2011	8,076,072	12/13/2011	Granted	1/30/2017
US	CIP	12/899,540	10/6/2010	269631	11/3/2011	8,716,190	5/6/2014	Granted	5/27/2030
US	DIV	12/902,711	10/12/2010	29251	2/3/2011	8,190,373	5/29/2012	Granted	11/12/2023
US	CON	12/938,231	11/2/2010	46343	2/24/2011	8,133,987	3/13/2012	Granted	12/30/2025
US	CON	12/938,262	11/2/2010	46344	2/24/2011	8,101,737	1/24/2012	Granted	12/30/2025
US	ORD	12/963,593	12/8/2010	136699	6/9/2011	8,501,122	8/6/2013	Granted	1/2/2031
US	CON	12/972,208	12/17/2010	124052	5/26/2011	8,980,563	3/17/2015	Granted	4/25/2029
US	CIP	12/930,041	12/23/2010	171644	7/14/2011	8,632,970	1/21/2014	Granted	5/11/2026
US	CON	13/011,030	1/21/2011	124526	5/26/2011	8,062,844	11/22/2011	Granted	12/28/2026
US	CON	13/015,041	1/27/2011	183869	7/28/2011	8,227,253	7/24/2012	Granted	12/21/2026
US	DIV	13/015,370	1/27/2011	166037	7/7/2011	8,709,716	4/29/2014	Granted	7/17/2028
US	CON	13/074,752	3/29/2011	189736	8/4/2011	8,404,443	3/26/2013	Granted	6/29/2025

PATENT

REEL: 036988 FRAME: 0214

Substrate Preparation Process
Methods for High Throughput Genotyping
System, method and product for calibrating inspection tools
Recombinant Colwellia Psychrerythraea Alkaline Phosphatase and Uses Thereof
DNA Ligation on RNA Template
Polymorphism Detection
System, Method and Product for Multiple Wavelength Detection Using Single Source Excitation
System, method, and product for scanning of biological materials
Miniaturized Particles
Multiple Step Printing Methods for Microbarcodes
Miniaturized microparticles
Complexity Management of Genomic DNA
Antireflective coatings for high-resolution photolithographic synthesis of DNA array
Use of acid scavengers for the synthesis of standard length and long-mer polymer arrays
Screening Methods Involving the Detection of Short-Lived Proteins
Multiplex Branched-Chain DNA Assays
Hybridization Device Methods, and System Using Mixing Beads
Parallel Preparation of High Fidelity Probes in an Array Format
Methods of using an array of pooled probes in genetic analysis
Computer Software for Visualizing Genotyping Data
Photoacid generators for the synthesis of oligo-DNA in a polymer matrix
Nucleic Acid Labeling Compounds
Amplification and Analysis of Selected Targets on Solid Supports
Methods for Identifying DNA Copy Number Changes
Primer Array Synthesis and Validation
Parallel Preparation of High Fidelity Probes in an Array Format
Manufacturing and Processing Polymer Arrays
Multiplex Targeted Amplification Using Flap Nuclease
Multiplex Capture of Nucleic Acids
Use of Acid Scavengers for the Synthesis of Standard Length and Long-mer Nucleic Acid Arrays
Oxydase Layers of Silicon Substrates for Effective Confocal Laser Microscopy
Analysis of Methylation Using Nucleic Acid Arrays
Hot Start Nucleic Acid Amplification

US	DIV	13/066,727	4/21/2011	256536	10/20/2011	8,470,535	6/25/2013	Granted	11/6/2027
US	DIV	13/100,397	5/4/2011	208500	8/25/2011	8,170,808	5/1/2012	Granted	10/2/2026
US	CON	13/101,773	5/5/2011	213560	9/1/2011	8,224,586	7/17/2012	Granted	6/2/2026
US	CON	13/103,621	5/9/2011	245110	10/6/2011	8,258,199	9/4/2012	Granted	1/16/2027
US	ORD	13/118,363	5/27/2011	294689	12/1/2011	8,828,688	9/9/2014	Granted	4/11/2032
US	CON	13/156,928	6/9/2011	243411	10/6/2011	8,208,710	6/26/2012	Granted	3/14/2023
US	DIV	13/161,150	6/15/2011	246085	10/6/2011	8,467,974	6/18/2013	Granted	8/15/2022
US	CON	13/167,264	6/23/2011	251798	10/13/2011	8,498,825	7/30/2013	Granted	12/7/2026
US	CON	13/171,892	6/29/2011	287491	11/24/2011	8,492,121	7/23/2013	Granted	10/27/2019
US	CON	13/186,167	7/19/2011	274328	11/10/2011	8,369,596	2/5/2013	Granted	6/27/2027
US	DIV	13/207,237	8/10/2011	9577	1/12/2012	8,288,522	10/16/2012	Granted	11/9/2026
US	DIV	13/222,851	8/31/2011	319273	12/29/2011	8,323,894	12/4/2012	Granted	12/16/2022
US	CON	13/238,563	9/21/2011	10108	1/12/2012	8,318,427	11/27/2012	Granted	12/28/2026
US	CON	13/241,970	9/23/2011	51663	3/1/2012	8,520,976	8/27/2013	Granted	1/26/2027
US	CON	13/273,399	10/14/2011	71361	3/22/2012	8,309,496	11/13/2012	Granted	4/17/2016
US	CON	13/275,521	10/18/2011	35083	2/9/2012	8,859,196	10/14/2014	Granted	6/20/2022
US	CON	13/286,870	11/1/2011	53336	3/1/2012	8,497,064	7/30/2013	Granted	1/30/2017
US	CON	13/288,772	11/3/2011	46200	2/23/2012	8,460,876	6/11/2013	Granted	1/16/2022
US	CON	13/316,254	12/9/2011	184467	7/19/2012	8,338,585	12/25/2012	Granted	1/3/2026
US	ORD	13/329,175	12/16/2011	226027	9/6/2012	8,835,125	9/16/2014	Granted	12/16/2031
US	CHP	13/337,024	12/23/2011	196381	8/2/2012	8,697,334	4/15/2014	Granted	9/16/2026
US	CON	13/340,254	12/29/2011	169819	7/5/2012	8,460,854	6/11/2013	Granted	11/3/2026
US	CON	13/347,065	1/10/2012	202293	8/9/2012	8,685,753	4/1/2014	Granted	10/2/2028
US	CON	13/348,394	1/11/2012	142551	6/7/2012	8,808,995	8/19/2014	Granted	8/5/2024
US	DIV	13/356,268	1/23/2012	142061	6/7/2012	8,486,665	7/16/2013	Granted	1/14/2030
US	CON	13/399,543	2/17/2012	2012-0157325	6/21/2012	8,815,510	8/26/2014	Granted	9/1/2024
US	ORD	13/426,589	3/21/2012	72390	3/21/2013	8,759,036	6/24/2014	Granted	3/21/2032
US	CON	13/460,662	4/30/2012	225295	9/6/2012	8,372,576	2/12/2013	Granted	9/13/2026
US	CON	13/480,888	5/25/2012	235016	9/20/2012	8,391,582	3/5/2013	Granted	3/14/2023
US	CON	13/526,248	6/18/2012	253688	10/4/2012	8,855,939	10/7/2014	Granted	6/2/2026
US	ORD	13/543,711	7/6/2012	11837	1/10/2013	8,932,819	1/13/2015	Granted	10/27/2032
US	CON	13/568,111	8/6/2012	137583	5/30/2013	8,679,758	3/25/2014	Granted	7/25/2021
US	CON	13/629,861	9/28/2012	59763	3/7/2013	8,637,434	1/28/2014	Granted	4/17/2016

PATENT

REEL: 036988 FRAME: 0216

Two stage nucleic acid amplification using an amplification oligomer
Methods and computer software for detecting splice variants
System, method, and computer product for exon array analysis
Photoacid generators for the synthesis of oligo-DNA in a polymer matrix
Multiplex Amplification Methods
System, method, and product for scanning of biological materials
System, method, and computer software for the presentation and storage of analysis results
Methods for High Throughput Genotyping
Complexity Management of Genomic DNA
Feature Intensity Reconstruction of Biological Probe Array
Detection of Nucleic Acids Through Amplification of Surrogate Nucleic Acids
Methods of Analysis of Allelic Imbalance
Use of Acid Scavengers for the Synthesis of Standard Length and Long-Mer Nucleic Acid Arrays
System, method, and product for imaging probe arrays with small feature sizes
Methods for photolithographic synthesis of polymer arrays utilizing anti-reflective coatings
Antireflective Coatings for High-Resolution Photolithographic Synthesis of DNA Arrays
Nucleic Acid Labeling Compounds
Screening Methods Involving the Detection of Short-Lived Proteins
Parallel Preparation of High Fidelity Probes in an Array Format
Methods and Compositions for Selective Labeling of Different Biotinylated Targets within Multicolor or Multilabel Assays
Miniaturized Microparticles
Multiple Step Printing Methods for Microbarcodes
Highly Multiplexed Particle-Based Assays
Methods for Genotyping Selected Polymorphism
Recombinant Colwellia Psycherythraea Alkaline Phosphatase and Uses thereof
Combinatorial Affinity Selection
Methods for Synthesizing Pools of Probes
Miniaturized Microparticles
System and method for scanning probe arrays
System, Method, and Computer Product for Exon Array Analysis
Assays for Affinity Profiling of Nucleic Acid Binding Proteins
Complexity Management of Genomic DNA
System for photolithographic synthesis of polymer arrays

US	CON	13/663,673	10/30/2012	142408	6/6/2013	8,934,689	1/13/2015	Granted	6/27/2027
US	CON	13/667,998	11/2/2012	190199	7/25/2013	8,835,116	9/16/2014	Granted	12/16/2022
US	CON	13/681,637	11/20/2012	197208	8/1/2013	8,729,251	5/20/2014	Granted	1/3/2026
US	CON	13/739,912	1/11/2013	51027	2/20/2014	8,748,079	6/10/2014	Granted	9/13/2026
US	CON	13/760,849	2/6/2013	2014-0057809	2/27/2014	8,945,811	2/3/2015	Granted	9/13/2026
US	ORD	13/791,164	3/8/2013			9,085,761	7/21/2015	Granted	8/1/2033
US	CON	13/839,964	3/15/2013	2013-0303392	11/14/2013	8,986,931	3/24/2015	Granted	5/11/2026
US	CON	14/549,694	11/21/2014	2015-0098637	4/9/2015	9,147,103	9/29/2015	Granted	6/27/2027

PATENT

REEL: 036988 FRAME: 0218

Feature Intensity Reconstruction of Biological Probe Array
Methods of Analysis of Allelic Imbalance
Parallel Preparation of High Fidelity Probes in an Array Format
Multiple Step Printing Methods for Microbarcodes
Miniaturized Microparticles
Methods and Compositions for Amplification of Nucleic Acids
Multiplex Branched-Chain DNA Assays
Feature Intensity Reconstruction of Biological Probe Array

SCHEDULE I
TO
PATENT SECURITY AGREEMENT

Patent Registrations

2. PATENT APPLICATIONS

See attached.

Country	Type	Application No.	Filed	Publication No.	Published	Status
EP	PCT	1924218.9	3/20/2001	1343877	9/27/2001	Published
EP	DIV	14173528.2	3/20/2001	2803724	11/19/2014	Published
EP	PCT	1985466	8/22/2001	1573634	9/14/2005	Published
EP	ORD	4258031.6	12/22/2004	1547678	6/29/2005	Published
US	CIP	11/614,948	12/21/2006	217710	9/8/2011	Published
EP	DIV	14163571.4	8/14/2007	2774987	9/10/2014	Published
US	ORD	11/874,848	10/18/2007	131894	6/5/2008	Published
US	CIP	11/923,649	10/24/2007	151438	6/23/2011	Published
EP	PCT	7861784.2	11/6/2007	2099928	9/16/2009	Allowed
US	CIP	12/143,754	6/20/2008	98547	4/16/2009	Published
US	ORD	12/211,100	9/15/2008	2009-0117573	5/7/2009	Published
EP	DIV	12171840.7	10/2/2008	2511708	10/17/2012	Published
US	ORD	12/454,746	5/21/2009	2009-0298709	12/3/2009	Published
US	ORD	12/780,825	5/14/2010	296727	11/25/2010	Published
US	ORD	12/986,986	1/7/2011	2011-0257896	10/20/2011	Published
US	DIV	13/068,727	5/17/2011	223606	9/15/2011	Published
US	ORD	13/197,688	8/3/2011	34703	2/9/2012	Published
US	CON	13/315,078	12/8/2011	2012-0094872	4/19/2012	Published
US	ORD	13/335,677	12/22/2011	165350	6/27/2013	Published
US	CON	13/431,021	3/27/2012	185178	7/19/2012	Published
JP	DIV	2012-088799	4/9/2012	2012-189600	10/4/2012	Published
US	CON	13/459,603	4/30/2012	2012-0214704	8/23/2012	Published
US	CON	13/468,604	5/10/2012	221255	8/30/2012	Published
US	ORD	13/650,938	10/12/2012	126757	5/23/2013	Published
US	ORD	13/689,027	11/29/2012	230221	9/5/2013	Published
US	ORD	13/827,392	3/14/2013	2014-0274756	9/18/2014	Published
US	ORD	13/844,567	3/15/2013	274728	9/18/2014	Published
US	ORD	13/844,285	3/15/2013	2014-0274749	9/18/2014	Published
US	CON	13/858,646	4/8/2013	2014-0121122	5/1/2014	Published
US	CON	13/916,932	6/13/2013	13-0344493	12/26/2013	Published
US	CON	13/926,510	6/25/2013	2014-0080724	3/20/2014	Published
US	DIV	13/933,963	7/2/2013	2014-0018266	1/16/2014	Published

Title

Stable Composition Comprising a Nuclease and a Phosphatase
Stable Composition Comprising a Nuclease and a Phosphatase
System and Method and Computer Software Product for Gain Adjustment in Biological Microarray Scanner
Process for High-Yield Synthesis of Standard Length and Long-Mer DNA Probes
Methods for Genotyping
Nucleic acid quantification from tissue slides
Enzymatic methods for genotyping on arrays
Methods of Analysis of Methylation
Two stage nucleic acid amplification using an amplification oligomer
Methods for Identifying DNA Copy Number Changes Using Hidden Markov Model Based Estimations
Locus Specific Amplification Using Arrayed Probes
Highly multiplexed particle-based assays
Assay for determining telomere length and repeated sequence copy number
Methods and devices for reading microarrays
Differential Filtering of Genetic Data
Nucleic Acid Quantitation from Tissue Slides
Devices, systems and methods for processing magnetic particles
Silane Mixtures
Surface Linkers for Assay Synthesis
Methods and computer software for detecting splice variants
Encoded Microparticles
Methods for Identifying Copy Number Changes
System, method, and computer software product for genotype determination using probe array data
Methods, systems and Apparatuses for Testing and Calibrating Fluorescent Scanners
Analysis of Data Obtained from Microarrays
Detection of Nucleic Acids
Systems and Methods for Probe Design to Detect the Presence of Simple and Complex Indels
Systems and Methods for SNP Characterization and Identifying off Target Variants
Method for Detecting Transcription Factor-Protein Interactions
RECOMBINANT COLWELLIA PSYCHRERYTHRAEA ALKALINE PHOSPHATASE AND USES THEREOF
COMPLEXITY MANAGEMENT OF GENOMIC DNA
MANUFACTURING AND PROCESSING POLYMER ARRAYS

US	CON	13/974,959	8/23/2013	2015-0057167	2/26/2015	Published
US	DIV	14/044,737	10/2/2013	2015-0038352	2/5/2015	Published
US	CON	14/095,907	12/3/2013	2015-0017632	1/15/2015	Published
US	CON	14/105,080	12/12/2013	20140194296	7/10/2014	Published
US	PCT	13/824,348	4/2/2014	US 2014-0315730 A1	10/23/2014	Published
US	CON	14/269,234	5/5/2014	2014-0378317	12/25/2014	Published
US	DIV	14/272,144	5/7/2014	2015-0004600	1/1/2015	Published
US	CON	14/303,954	6/13/2014	2015-0010905	1/8/2015	Published
US	CON	14/313,211	6/24/2014	2015-0011399	1/8/2015	Published
US	CON	14/445,103	7/29/2014	2015-0018253	1/15/2015	Published
US	DIV	14/456,195	8/11/2014	349890	11/27/2014	Published
US	CON	14/469,773	8/27/2014	2014-0378340	12/25/2014	Published
US	CON	14/566,029	12/10/2014	20150160202	6/11/2015	Published
US	CON	14/623,010	2/16/2015	20150152482	6/4/2015	Published
US	DIV	14/625,322	2/18/2015	2015-0159198	6/11/2015	Published
US	CON	14/665,506	3/23/2015	2015-0259726	9/17/2015	Published
WO	ORD	PCT/US15/24343	4/3/2015			Pending
US	ORD	14/678,723	4/3/2015	2015-0284786	10/8/2015	Published
US	CON	14/717,724	5/20/2015	2015-0252351	9/10/2015	Published
US	CON	14/751,884	6/26/2015			Pending
US	CON	14/755,002	6/30/2015			Pending
US	ORD	14/826,907	8/14/2015			Pending
WO	ORD	PCT/US2015/045333	8/14/2015			Pending

PATENT

REEL: 036988 FRAME: 0223

SYSTEM, METHOD, AND PRODUCT FOR IMAGING PROBE ARRAYS WITH SMALL FEATURE SIZES
Analysis of Methylation Using Nucleic Acid Arrays
Complexity Management of Genomic DNA
MULTIPLEX CAPTURE OF NUCLEIC ACIDS
SCALABLE CHARACTERIZATION OF NUCLEIC ACIDS BY PARALLEL SEQUENCING
Amplification and Analysis of Selected Targets on Solid Supports
Methods for Synthesizing Pools of Probes
Methods for Genotyping Selected Polymorphism
DNA Ligation on RNA Template
Methods and Compositions for Selective Labeling of Different Biotinylated Targets within Multicolor or Multilabel Assays
Multiplex Amplification Methods
Methods for Genotyping
Assays for Affinity Profiling of Nucleic Acid Binding Proteins
Multiplex Targeted Amplification Using Flap Nuclease
Methods and Compositions for Amplification of Nucleic Acids
Multiplex Targeted Amplification Using Flap Nuclease
Improved Compositions and Methods for Molecular Inversion Probe Assays
Improved Compositions and Methods for Molecular Inversion Probe Assays
Methods and Compositions for Amplification of Nucleic Acids
Array-based translocation and rearrangement assays
SCALABLE CHARACTERIZATION OF NUCLEIC ACIDS BY PARALLEL SEQUENCING
ROBUST DETECTION OF NUCLEIC ACIDS IN SITU
ROBUST DETECTION OF NUCLEIC ACIDS IN SITU

PATENT

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