

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT4155042

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT	
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT	
<b>CONVEYING PARTY DATA</b>		
	<b>Name</b>	<b>Execution Date</b>
	ZYOMYX, INC.	12/30/2015
<b>RECEIVING PARTY DATA</b>		
<b>Name:</b>	BILL AND MELINDA GATES FOUNDATION	
<b>Street Address:</b>	P.O. BOX 23350	
<b>City:</b>	SEATTLE	
<b>State/Country:</b>	WASHINGTON	
<b>Postal Code:</b>	98102	
<b>PROPERTY NUMBERS Total: 3</b>		
<b>Property Type</b>	<b>Number</b>	
<b>Patent Number:</b>	7998696	
<b>Patent Number:</b>	8304203	
<b>Patent Number:</b>	8765391	
<b>CORRESPONDENCE DATA</b>		
<b>Fax Number:</b>		
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.</i>		
<b>Phone:</b>	404-879-2150	
<b>Email:</b>	CINDY@PABSTPATENT.COM	
<b>Correspondent Name:</b>	PABST PATENT GROUP LLP	
<b>Address Line 1:</b>	1545 PEACHTREE STREET	
<b>Address Line 2:</b>	SUITE 320	
<b>Address Line 4:</b>	ATLANTA, GEORGIA 30309	
<b>ATTORNEY DOCKET NUMBER:</b>	ZYOMYZ TO BMGF	
<b>NAME OF SUBMITTER:</b>	CINDY PHILLIPS	
<b>SIGNATURE:</b>	/Cindy Phillips/	
<b>DATE SIGNED:</b>	11/22/2016	
<b>Total Attachments: 28</b>		
source=CMA_Zyomyx_Bill_of_Sale_Patents_Only#page1.tif		
source=CMA_Zyomyx_Bill_of_Sale_Patents_Only#page2.tif		
source=CMA_Zyomyx_Bill_of_Sale_Patents_Only#page3.tif		

source=CMA\_Zyomyx\_Bill\_of\_Sale\_Patents\_Only#page4.tif  
source=CMA\_Zyomyx\_Bill\_of\_Sale\_Patents\_Only#page5.tif  
source=CMA\_Zyomyx\_Bill\_of\_Sale\_Patents\_Only#page6.tif  
source=CMA\_Zyomyx\_Bill\_of\_Sale\_Patents\_Only#page7.tif  
source=CMA\_Zyomyx\_Bill\_of\_Sale\_Patents\_Only#page8.tif  
source=CMA\_Zyomyx\_Bill\_of\_Sale\_Patents\_Only#page9.tif  
source=CMA\_Zyomyx\_Bill\_of\_Sale\_Patents\_Only#page10.tif  
source=CMA\_Zyomyx\_Bill\_of\_Sale\_Patents\_Only#page11.tif  
source=CMA\_Zyomyx\_Bill\_of\_Sale\_Patents\_Only#page12.tif  
source=CMA\_Zyomyx\_Bill\_of\_Sale\_Patents\_Only#page13.tif  
source=CMA\_Zyomyx\_Bill\_of\_Sale\_Patents\_Only#page14.tif  
source=CMA\_Zyomyx\_Bill\_of\_Sale\_Patents\_Only#page15.tif  
source=CMA\_Zyomyx\_Bill\_of\_Sale\_Patents\_Only#page16.tif  
source=CMA\_Zyomyx\_Bill\_of\_Sale\_Patents\_Only#page17.tif  
source=CMA\_Zyomyx\_Bill\_of\_Sale\_Patents\_Only#page18.tif  
source=CMA\_Zyomyx\_Bill\_of\_Sale\_Patents\_Only#page19.tif  
source=CMA\_Zyomyx\_Bill\_of\_Sale\_Patents\_Only#page20.tif  
source=CMA\_Zyomyx\_Bill\_of\_Sale\_Patents\_Only#page21.tif  
source=CMA\_Zyomyx\_Bill\_of\_Sale\_Patents\_Only#page22.tif  
source=CMA\_Zyomyx\_Bill\_of\_Sale\_Patents\_Only#page23.tif  
source=CMA\_Zyomyx\_Bill\_of\_Sale\_Patents\_Only#page24.tif  
source=CMA\_Zyomyx\_Bill\_of\_Sale\_Patents\_Only#page25.tif  
source=CMA\_Zyomyx\_Bill\_of\_Sale\_Patents\_Only#page26.tif  
source=CMA\_Zyomyx\_Bill\_of\_Sale\_Patents\_Only#page27.tif  
source=CMA\_Zyomyx\_Bill\_of\_Sale\_Patents\_Only#page28.tif

## BILL OF SALE

On December 30, 2015, for good and valuable consideration, [REDACTED] the receipt and sufficiency of which are hereby acknowledged Credit Management Association ("CMA"), in its capacity as Agent for secured creditor Bill and Melinda Gates Foundation, a Washington charitable trust ("Seller"), does hereby sell, transfer, assign, convey and deliver to Bill and Melinda Gates Foundation ("Buyer"), all of Seller's right, title and interest in and to the following assets (collectively, the "Transferred Assets"):

The Transferred Assets include all rights, title and interests of Zyomyx, Inc. in and to:

1. [REDACTED]
2. All general intangibles of Zyomyx, Inc., including but not limited to, intellectual property, registered and unregistered patents and trademarks and names where ever and if ever registered, and licenses and royalties relating thereto or arising therefrom, including without limitation, the following:

PATENTS - See attached Schedule of Patents (pages P 1 through P 26, inclusive)

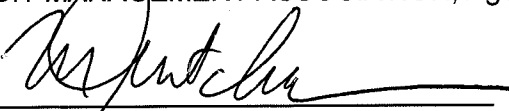
TRADEMARKS - See attached Schedule of Trademarks (pages T 1 through T 16, inclusive).

The Transferred Assets are being sold "as-is" "where-is", without recourse, representation or warranty, whether expressed or implied. All sales are final.

Nothing contained in this Bill of Sale shall constitute a representation, warranty, covenant, written information, data, report or statement by Seller, CMA or any of its agents, employees, representatives, attorneys, accountants or affiliates as to the condition of, or title to, the Transferred Assets.

By accepting this Bill of Sale, Buyer confirms that it is not relying on any representation of CMA or any of its agents, employees, representatives, attorneys, accountants or affiliates as to the condition of, or title to, the Transferred Assets, and that Buyer is purchasing the Transferred Assets in an "AS IS, WHERE IS" condition, based solely upon Buyer's own examination and evaluation of the Transferred Assets. All references to CMA and Buyer shall be deemed to include their respective nominees, successors and/or assigns.

CREDIT MANAGEMENT ASSOCIATION, Agent for Seller

By:   
Michael Mitchell, President

ACCEPTED AND AGREED:

Buyer: Bill and Melinda Gates Foundation

By: \_\_\_\_\_  
Name: \_\_\_\_\_  
Authorized Representative

# ***SCHEDULE OF PATENTS***



United States Patent and Trademark Office

Home | Site Index | Search | Guides | Contacts | eBusiness | eBiz alerts | News | Help

*Electronic Patent Assignment System***Confirmation Receipt**

Your assignment has been received by the USPTO.  
The coversheet of the assignment is displayed below:

**PATENT ASSIGNMENT**

Electronic Version v1.1  
Stylesheet Version v1.1

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT																
<b>NATURE OF CONVEYANCE:</b>	SECURITY AGREEMENT																
<b>CONVEYING PARTY DATA</b>																	
<table border="1"><tr><th>Name</th><th>Execution Date</th></tr><tr><td>Zyomyx, Inc.</td><td>05/06/2011</td></tr></table>	Name	Execution Date	Zyomyx, Inc.	05/06/2011													
Name	Execution Date																
Zyomyx, Inc.	05/06/2011																
<b>RECEIVING PARTY DATA</b>																	
<table border="1"><tr><td><b>Name:</b></td><td>Bill &amp; Melinda Gates Foundation</td></tr><tr><td><b>Street Address:</b></td><td>1551 Eastlake Avenue East</td></tr><tr><td><b>City:</b></td><td>Seattle</td></tr><tr><td><b>State/Country:</b></td><td>WASHINGTON</td></tr><tr><td><b>Postal Code:</b></td><td>98102</td></tr></table>	<b>Name:</b>	Bill & Melinda Gates Foundation	<b>Street Address:</b>	1551 Eastlake Avenue East	<b>City:</b>	Seattle	<b>State/Country:</b>	WASHINGTON	<b>Postal Code:</b>	98102							
<b>Name:</b>	Bill & Melinda Gates Foundation																
<b>Street Address:</b>	1551 Eastlake Avenue East																
<b>City:</b>	Seattle																
<b>State/Country:</b>	WASHINGTON																
<b>Postal Code:</b>	98102																
<b>PROPERTY NUMBERS Total: 41</b>																	
<table border="1"><tr><th>Property Type</th><th>Number</th></tr><tr><td>Application Number:</td><td>12329380</td></tr><tr><td>Application Number:</td><td>12681601</td></tr><tr><td>Application Number:</td><td>12859973</td></tr><tr><td>Application Number:</td><td>11865555</td></tr><tr><td>Patent Number:</td><td>6794197</td></tr><tr><td>Patent Number:</td><td>7615190</td></tr><tr><td>Patent Number:</td><td>6720157</td></tr></table>	Property Type	Number	Application Number:	12329380	Application Number:	12681601	Application Number:	12859973	Application Number:	11865555	Patent Number:	6794197	Patent Number:	7615190	Patent Number:	6720157	
Property Type	Number																
Application Number:	12329380																
Application Number:	12681601																
Application Number:	12859973																
Application Number:	11865555																
Patent Number:	6794197																
Patent Number:	7615190																
Patent Number:	6720157																

P 1 of 26

Application Number:	10704199
Patent Number:	7183392
Patent Number:	6686154
Patent Number:	6454924
Patent Number:	6730516
Patent Number:	7438856
Application Number:	12210389
Application Number:	10112840
Application Number:	10911877
Application Number:	10911945
Patent Number:	6475808
Patent Number:	6630358
Application Number:	10113964
Patent Number:	6329209
Patent Number:	6780582
Application Number:	10871197
Patent Number:	6365418
Application Number:	10107122
Application Number:	12950698
Patent Number:	6475809
Application Number:	11003196
Patent Number:	6897073
Patent Number:	7247469
Application Number:	12192321
Patent Number:	6576478
Patent Number:	6596545
Patent Number:	6682942
Patent Number:	6582969
Application Number:	12171217
Patent Number:	6720165
Patent Number:	7834314
Application Number:	12911045
Patent Number:	6885960
Patent Number:	6406921

**Fax Number:** (949)253-0902  
*Correspondence will be sent via US Mail when the fax attempt is unsuccessful.*  
**Phone:** 949-253-0900  
**Email:** maria.nadal@klgates.com  
**Correspondent Name:** Louis C. Cullman  
**Address Line 1:** 1900 Main Street, Suite 600  
**Address Line 4:** Irvine, CALIFORNIA 92614-7319

**ATTORNEY DOCKET  
NUMBER:**

2033909.40006

**NAME OF SUBMITTER:**

Louis C. Cullman

**Signature:**

/Louis C. Cullman/

**Date:**

05/06/2011

**Total Attachments: 6**

source=Collateral Assignment of Patents#page1.tif  
source=Collateral Assignment of Patents#page2.tif  
source=Collateral Assignment of Patents#page3.tif  
source=Collateral Assignment of Patents#page4.tif  
source=Collateral Assignment of Patents#page5.tif  
source=Collateral Assignment of Patents#page6.tif

**RECEIPT INFORMATION**

**EPAS ID:** PAT1551151  
**Receipt Date:** 05/06/2011  
**Fee Amount:** \$1640

[Return to home page](#)

| [HOME](#) | [INDEX](#) | [SEARCH](#) | [eBUSINESS](#) | [CONTACT US](#) | [PRIVACY STATEMENT](#)

**PATENT ASSIGNMENT**

Electronic Version v1.1

Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	SECURITY AGREEMENT
CONVEYING PARTY DATA	
Name	Execution Date
Zyomyx, Inc.	05/06/2011
RECEIVING PARTY DATA	
Name:	Bill & Melinda Gates Foundation
Street Address:	1551 Eastlake Avenue East
City:	Seattle
State/Country:	WASHINGTON
Postal Code:	98102
PROPERTY NUMBERS Total: 41	
Property Type	Number
Application Number:	12329380
Application Number:	12681601
Application Number:	12859973
Application Number:	11865555
Patent Number:	6794197
Patent Number:	7615190
Patent Number:	6720157
Application Number:	10704199
Patent Number:	7183392
Patent Number:	6686154
Patent Number:	6454924

P 4 of 26



Patent Number:	6730516
Patent Number:	7438856
Application Number:	12210389
Application Number:	10112840
Application Number:	10911877
Application Number:	10911945
Patent Number:	6475808
Patent Number:	6630358
Application Number:	10113964
Patent Number:	6329209
Patent Number:	6780582
Application Number:	10871197
Patent Number:	6365418
Application Number:	10107122
Application Number:	12950698
Patent Number:	6475809
Application Number:	11003196
Patent Number:	6897073
Patent Number:	7247469
Application Number:	12192321
Patent Number:	6576478
Patent Number:	6596545
Patent Number:	6682942
Patent Number:	6582969
Application Number:	12171217
Patent Number:	6720165
Patent Number:	7834314
Application Number:	12911045
Patent Number:	6885960
Patent Number:	6406921

CORRESPONDENCE DATA

P 5 of 26

Fax Number: (949)253-0902  
*Correspondence will be sent via US Mail when the fax attempt is unsuccessful.*  
Phone: 949-253-0900  
Email: maria.nadal@klgates.com  
Correspondent Name: Louis C. Cullman  
Address Line 1: 1900 Main Street, Suite 600  
Address Line 4: Irvine, CALIFORNIA 92614-7319

ATTORNEY DOCKET NUMBER:	2033909.40006
NAME OF SUBMITTER:	Louis C. Cullman
Signature:	/Louis C. Cullman/
Date:	05/06/2011
Total Attachments: 6 source=Collateral Assignment of Patents#page1.tif source=Collateral Assignment of Patents#page2.tif source=Collateral Assignment of Patents#page3.tif source=Collateral Assignment of Patents#page4.tif source=Collateral Assignment of Patents#page5.tif source=Collateral Assignment of Patents#page6.tif	
RECEIPT INFORMATION	
EPAS ID:	PAT1551151
Receipt Date:	05/06/2011
Fee Amount:	\$1640

Schedule A  
to Collateral Assignment of Patents

Title	Status	Serial No.	Filing Date	Patent No.	Issue Date
CELL ASSAY KIT AND METHOD	Pending	12329380	Dec 5, 2008		
CELL ASSAY KIT AND METHOD	Pending	12681601	Apr 2, 2010		
CELL ASSAY KIT AND METHOD	Pending	12859973	Aug 8, 2010		
DEVICE AND METHOD FOR ANALYSIS OF SAMPLES WITH DEPLETION OF ANALYTE CONTENT	Pending	11865555	Oct 1, 2007		
MICRODEVICE AND METHOD FOR DETECTING A CHARACTERISTIC OF A FLUID	Issued	09759106	Jan 11, 2001	6794197	Sep 21, 2004
MICRODEVICE AND METHOD FOR DETECTING A CHARACTERISTIC OF A FLUID	Issued	10829021	Apr 20, 2004	7615190	Nov 10, 2009
CHIPS HAVING ELEVATED SAMPLE SURFACES	Issued	09792335	Feb 23, 2001	6720157	Apr 13, 2004
CHIPS HAVING ELEVATED SAMPLE SURFACES	Pending	10704199	Nov 7, 2003		
SITE-SPECIFIC, COVALENT BIOCONJUGATION OF PROTEINS	Issued	09820210	Mar 27, 2001	7183392	Feb 27, 2007
SCREENING OF PHAGE DISPLAYED PEPTIDES WITHOUT CLEARING OF THE CELL CULTURE	Issued	09874547	Jun 4, 2001	6686154	Feb 3, 2004
MICROFLUIDIC DEVICES AND METHODS	Issued	09792488	Feb 23, 2001	6454924	Sep 24, 2002
MICROFLUIDIC DEVICES AND METHODS	Issued	10208381	Jul 29, 2002	6730516	May 4, 2004
MICROFLUIDIC DEVICES AND METHODS	Issued	10603339	Jun 24, 2003	7438856	Oct 21, 2008
MICROFLUIDIC DEVICES AND METHODS	Pending	12210389	Sep 15, 2008		
PROTEIN ARRAYS FOR HIGH-THROUGHPUT SCREENING	Issued	09115455	Jul 14, 1998	6406921	Jun 18, 2002
PROTEIN ARRAYS FOR HIGH-THROUGHPUT SCREENING	Pending	10112840	Mar 29, 2002		
PROTEIN ARRAYS FOR HIGH-THROUGHPUT SCREENING	Pending	10911877	Aug 4, 2004		
PROTEIN ARRAYS FOR HIGH-THROUGHPUT SCREENING	Pending	10911945	Aug 4, 2004		
ARRAYS OF PROTEINS AND METHODS OF USE THEREOF	Issued	09353215	Jul 14, 1999	6475808	Nov 5, 2002
ARRAYS OF PROTEINS AND METHODS OF USE THEREOF	Issued	09570363	May 12, 2000	6630358	Oct 7, 2003
ARRAYS OF PROTEINS AND METHODS OF USE THEREOF	Pending	10113964	Mar 29, 2002		
ARRAYS OF PROTEIN-CAPTURE AGENTS AND METHODS OF USE THEREOF	Issued	09353555	Jul 14, 1999	6329209	Dec 11, 2001
ARRAYS OF PROTEIN-CAPTURE AGENTS AND METHODS OF USE THEREOF	Issued	09574692	May 17, 2000	6780582 Aug 24, 2004	
ARRAYS OF PROTEIN-CAPTURE AGENTS AND METHODS OF USE THEREOF	Pending	10871197	Jun 18, 2004		

Title	Status	Serial No.	Filing Date	Patent No.	Issue Date
ARRAYS OF PROTEINS-CAPTURE AGENTS AND METHODS OF USE THEREOF	Issued	09574748	May 18, 2000	6365418	Apr 2, 2002
ARRAYS OF PROTEIN CAPTURE AGENTS AND METHODS OF USE THEREOF	Pending	10107122	Mar 26, 2002		
ARRAYS OF PROTEIN CAPTURE AGENTS AND METHODS OF USE THEREOF	Pending	12950698	Nov 19, 2010		
PROTEIN ARRAYS FOR HIGH-THROUGHPUT SCREENING	Issued	09570588	May 12, 2000	6475809	Nov 5, 2002
ARRAY DEVICES AND METHODS OF USE THEREOF	Pending	11003196	Dec 2, 2004		
NON-SPECIFIC BINDING RESISTANT PROTEIN ARRAYS & METHODS FOR MAKING THE SAME	Issued	10046442	Oct 27, 2001	6897073	May 24, 2005
NON-SPECIFIC BINDING RESISTANT PROTEIN ARRAYS AND METHODS FOR MAKING THE SAME	Issued	11137457	May 24, 2005	7247469	Jul 24, 2007
NON-SPECIFIC BINDING RESISTANT PROTEIN ARRAYS AND METHODS FOR MAKING THE SAME	Pending	12192321	Aug 15, 2008		
MICRODEVICES FOR SCREENING BIOMOLECULES	Issued	09115397	Jul 14, 1998	6576478	Jun 10, 2003
MICRODEVICES FOR SCREENING BIOMOLECULES	Issued	09353554	Jul 14, 1999	6596545	Jul 22, 2003
MICRODEVICES FOR SCREENING BIOMOLECULES	Issued	09570589	May 12, 2000	6682942	Jan 27, 2004
MICRODEVICES FOR HIGH-THROUGHPUT SCREENING OF BIOMOLECULES	Issued	09570586	May 12, 2000	6582969	Jun 24, 2003
MICRODEVICES FOR SCREENING BIOMOLECULES	Pending	12171217	Jul 10, 2008		
METHODS FOR MAKING ANTIBODY FRAGMENTS AND COMPOSITIONS RESULTING THEREFROM	Issued	09882814	Jun 14, 2001	6720165	Apr 13, 2004
ION DETECTION USING A PILLAR CHIP	Issued	12082149	Apr 8, 2008	7834314	Nov 16, 2010
ION DETECTION USING A PILLAR CHIP	Pending	12911045	Oct 25, 2010		
METHODS AND DEVICES FOR PERFORMING IMPEDANCE SPECTROSCOPY	Issued	10375510	Feb 25, 2003	6885960	Apr 26, 2005

*Patents*

*Owned US Patents*

Title	Status	Serial No.	Filing Date	Patent No.	Issue Date
CELL ASSAY KIT AND METHOD	Pending	12329380	Dec 5, 2008		
CELL ASSAY KIT AND METHOD	Pending	12681601	Apr 2, 2010		

Title	Status	Serial No.	Filing Date	Patent No.	Issue Date
CELL ASSAY KIT AND METHOD	Pending	12859973	Aug 8, 2010		
DEVICE AND METHOD FOR ANALYSIS OF SAMPLES WITH DEPLETION OF ANALYTE CONTENT	Pending	11865555	Oct 1, 2007		
MICRODEVICE AND METHOD FOR DETECTING A CHARACTERISTIC OF A FLUID	Issued	09759106	Jan 11, 2001	6794197	Sep 21, 2004
MICRODEVICE AND METHOD FOR DETECTING A CHARACTERISTIC OF A FLUID	Issued	10829021	Apr 20, 2004	7615190	Nov 10, 2009
CHIPS HAVING ELEVATED SAMPLE SURFACES	Issued	09792335	Feb 23, 2001	6720157	Apr 13, 2004
CHIPS HAVING ELEVATED SAMPLE SURFACES	Pending	10704199	Nov 7, 2003		
SITE-SPECIFIC, COVALENT BIOCONJUGATION OF PROTEINS	Issued	09820210	Mar 27, 2001	7183392	Feb 27, 2007
SCREENING OF PHAGE DISPLAYED PEPTIDES WITHOUT CLEARING OF THE CELL CULTURE	Issued	09874547	Jun 4, 2001	6686154	Feb 3, 2004
MICROFLUIDIC DEVICES AND METHODS	Issued	09792488	Feb 23, 2001	6454924	Sep 24, 2002
MICROFLUIDIC DEVICES AND METHODS	Issued	10208381	Jul 29, 2002	6730516	May 4, 2004
MICROFLUIDIC DEVICES AND METHODS	Issued	10603339	Jun 24, 2003	7438856	Oct 21, 2008
MICROFLUIDIC DEVICES AND METHODS	Pending	12210389	Sep 15, 2008		
PROTEIN ARRAYS FOR HIGH-THROUGHPUT SCREENING	Issued	09115455	Jul 14, 1998	6406921	Jun 18, 2002
PROTEIN ARRAYS FOR HIGH-THROUGHPUT SCREENING	Pending	10112840	Mar 29, 2002		
PROTEIN ARRAYS FOR HIGH-THROUGHPUT SCREENING	Pending	10911877	Aug 4, 2004		
PROTEIN ARRAYS FOR HIGH-THROUGHPUT SCREENING	Pending	10911945	Aug 4, 2004		
ARRAYS OF PROTEINS AND METHODS OF USE THEREOF	Issued	09353215	Jul 14, 1999	6475808	Nov 5, 2002

Title	Status	Serial No.	Filing Date	Patent No.	Issue Date
ARRAYS OF PROTEINS AND METHODS OF USE THEREOF	Issued	09570363	May 12, 2000	6630358	Oct 7, 2003
ARRAYS OF PROTEINS AND METHODS OF USE THEREOF	Pending	10113964	Mar 29, 2002		
ARRAYS OF PROTEIN-CAPTURE AGENTS AND METHODS OF USE THEREOF	Issued	09353555	Jul 14, 1999	6329209	Dec 11, 2001
ARRAYS OF PROTEIN-CAPTURE AGENTS AND METHODS OF USE THEREOF	Issued	09574692	May 17, 2000	6780582 Aug 24, 2004	
ARRAYS OF PROTEIN-CAPTURE AGENTS AND METHODS OF USE THEREOF	Pending	10871197	Jun 18, 2004		
ARRAYS OF PROTEINS-CAPTURE AGENTS AND METHODS OF USE THEREOF	Issued	09574748	May 18, 2000	6365418	Apr 2, 2002
ARRAYS OF PROTEIN CAPTURE AGENTS AND METHODS OF USE THEREOF	Pending	10107122	Mar 26, 2002		
ARRAYS OF PROTEIN CAPTURE AGENTS AND METHODS OF USE THEREOF	Pending	12950698	Nov 19, 2010		
PROTEIN ARRAYS FOR HIGH-THROUGHPUT SCREENING	Issued	09570588	May 12, 2000	6475809	Nov 5, 2002
ARRAY DEVICES AND METHODS OF USE THEREOF	Pending	11003196	Dec 2, 2004		
NON-SPECIFIC BINDING RESISTANT PROTEIN ARRAYS & METHODS FOR MAKING THE SAME	Issued	10046442	Oct 27, 2001	6897073	May 24, 2005
NON-SPECIFIC BINDING RESISTANT PROTEIN ARRAYS AND METHODS FOR MAKING THE SAME	Issued	11137457	May 24, 2005	7247469	Jul 24, 2007
NON-SPECIFIC BINDING RESISTANT PROTEIN ARRAYS AND METHODS FOR MAKING THE SAME	Pending	12192321	Aug 15, 2008		
MICRODEVICES FOR SCREENING BIOMOLECULES	Issued	09115397	Jul 14, 1998	6576478	Jun 10, 2003
MICRODEVICES FOR SCREENING BIOMOLECULES	Issued	09353554	Jul 14, 1999	6596545	Jul 22, 2003
MICRODEVICES FOR SCREENING BIOMOLECULES	Issued	09570589	May 12, 2000	6682942	Jan 27, 2004
MICRODEVICES FOR HIGH-THROUGHPUT SCREENING OF BIOMOLECULES	Issued	09570586	May 12, 2000	6582869	Jun 24, 2003

Title	Status	Serial No.	Filing Date	Patent No.	Issue Date
MICRODEVICES FOR SCREENING BIOMOLECULES	Pending	12171217	Jul 10, 2008		
METHODS FOR MAKING ANTIBODY FRAGMENTS AND COMPOSITIONS RESULTING THEREFROM	Issued	09882814	Jun 14, 2001	6720165	Apr 13, 2004
ION DETECTION USING A PILLAR CHIP	Issued	12082149	Apr 8, 2008	7834314	Nov 16, 2010
ION DETECTION USING A PILLAR CHIP	Pending	12911045	Oct 25, 2010		
METHODS AND DEVICES FOR PERFORMING IMPEDANCE SPECTROSCOPY	Issued	10375510	Feb 25, 2003	6885980	Apr 26, 2005

*Licensed US Patents*

Title	File No.	Status	Serial No.	Filing Date	Patent No.	Issue Date
MULTIFUNCTIONAL POLYMERIC TISSUE COATINGS	CIT2616	Issued	09403428	Jan 6, 2000	6743521	Jun 1, 2004
MULTIFUNCTIONAL POLYMERIC TISSUE COATINGS	CIT2616CON	Issued	10804787	Mar 19, 2004	7316845	Jan 8, 2008
MULTIFUNCTIONAL POLYMERIC TISSUE COATINGS	CIT2616CON(2)	Pending	11927334	Oct 29, 2007		
METHOD AND COMPOSITIONS TO PREVENT FORMATION OF ADHESIONS IN BIOLOGICAL TISSUES	CIT2662	Issued	09140781	Aug 27, 1998	6596267	Jul 22, 2003
METHOD AND COMPOSITIONS TO PREVENT FORMATION OF ADHESIONS IN BIOLOGICAL TISSUES	CIT2662DIV	Issued	10403344	Mar 28, 2003	7029688	Apr 18, 2006
GELS AND MULTILAYER SURFACE STRUCTURES FROM BORONIC ACID CONTAINING POLYMERS	ETH101	Issued	09384888	Aug 27, 1999	6350527	Feb 26, 2002
GELS AND MULTILAYER SURFACE STRUCTURES FROM BORONIC ACID CONTAINING POLYMERS	ETH101DIV	Issued	10035625	Dec 28, 2001	6652902	Nov 25, 2003



Title	File No.	Status	Serial No.	Filing Date	Patent No.	Issue Date
POLYIONIC COATINGS IN ANALYTIC AND SENSOR DEVICES	ETH104	Issued	09560472	Apr 28, 2000	6884628	Apr 26, 2005
MULTIFUNCTIONAL ORGANIC POLYMERS	UTSB001	Issued	08132507	Oct 5, 1993	5462990	Oct 31, 1995
MULTIFUNCTIONAL ORGANIC POLYMERS	UTSB001DI V(1)	Issued	08465949	Jun 6, 1995	5627233	May 6, 1997
MULTIFUNCTIONAL ORGANIC POLYMERS	UTSB001DI V(2)	Issued	08471390	Jun 6, 1995	5567440	Oct 22, 1996
BIOCOMPATIBLE MICROCAPSULES	UTSB003	Issued	08336393	Nov 10, 1994	5820882	Oct 13, 1998
BIOCOMPATIBLE MICROCAPSULES	UTSB003CON	Issued	07740703	Aug 5, 1991	5380536	Jan 10, 1995
BIOCOMPATIBLE MICROCAPSULES	UTSB003DI V(3)	Issued	08969910	Nov 13, 1997	6231892	May 15, 2001
HIGHLY TIME RESOLVED IMPEDANCE SPECTROSCOPY	68251-01	Issued	09675705	Sep 29, 2000	6556001	Apr 29, 2003
HIGHLY TIME RESOLVED IMPEDANCE SPECTROSCOPY	68252-01	Issued	10382732	Mar 4, 2003	7015701	Mar 21, 2006

*Registered Copyrights*

None

## Patent case list

matter id begins '6722-' and area of law contains 'patent' and area of law not contain 'other'

Matter ID	Client	Description	Prosecution Details	Docket
6722-65819-01 Billing SCS Originating LMC Responsible SCS Emergency MDJ	Zyomyx, Inc.  Ref#:	CHEMOSELECTIVE LIGATION	Country: U.S. Status: Abandoned Filing Date: 4/29/2003 Application #: 10/426,243 Issue Date: Patent #: Expiry Date:	
6722-65902-01 Billing SCS Originating LMC Responsible SCS Emergency LMC	Zyomyx, Inc.  Ref#:	METHODS AND REAGENTS FOR SURFACE (PCT) FUNCTIONALIZATION	Country: PCT Status: Completed Filing Date: 8/18/2003 Application #: PCT/US2003/025927 Issue Date: Patent #: Expiry Date:	
6722-65902-02 Originating SCS Responsible SCS Emergency LMC Billing SCS	Zyomyx, Inc.  Ref#:	METHODS AND REAGENTS FOR SURFACE FUNCTIONALIZATION (Nat'l Stage)	Country: U.S. Status: Abandoned Filing Date: 11/2/2004 Application #: 10/980,597 Issue Date: Patent #: Expiry Date:	

3/5/2015 1:28:17 PM

Page: 1

## Patent case list

matter id begins '6722-' and area of law contains 'patent' and area of law not contain 'other'

Matter ID	Client	Description	Prosecution Details	Docket
6722-65902-03 Billing SCS Originating SCS Responsible SCS Emergency LMC	Zyomyx, Inc.  Ref#:	METHODS AND REAGENTS FOR SURFACE (JAPAN) FUNCTIONALIZATION (NATIONAL STAGE)	Country: Japan Status: Withdrawn Filing Date: 8/18/2003 Application #: 2004-529,123 Issue Date: Patent #: Expiry Date:	
6722-65902-04 Billing SCS Originating SCS Responsible SCS Emergency LMC	Zyomyx, Inc.  Ref#:	METHODS AND REAGENTS FOR SURFACE (AUSTRALIA) FUNCTIONALIZATION (NATIONAL STAGE)	Country: Australia Status: Abandoned Filing Date: 8/18/2003 Application #: 2003263922 Issue Date: Patent #: Expiry Date: 8/18/2023	
6722-65902-05 Billing SCS Originating SCS Responsible SCS Emergency LMC	Zyomyx, Inc.  Ref#:	METHODS AND REAGENTS FOR SURFACE (CANADA) FUNCTIONALIZATION (NATIONAL STAGE)	Country: Canada Status: Abandoned Filing Date: 8/18/2003 Application #: 2496141 Issue Date: Patent #: Expiry Date: 8/18/2023	

3/5/2015 1:28:17 PM

Page: 2

## Patent case list

matter id begins '6722-' and area of law contains 'patent' and area of law not contain 'other'

Matter ID	Client	Description	Prosecution Details	Docket
6722-65902-06 Billing SCS Originating SCS Responsible SCS Emergency MDJ	Zyomyx, Inc.  Ref#:	METHODS AND REAGENTS FOR SURFACE FUNCTIONALIZATION (NATIONAL STAGE) (EPC)	Country: EPC Status: Abandoned Filing Date: 8/18/2003 Application #: 03788638.9 Issue Date: Patent #: Expiry Date: 8/18/2023	
6722-66827-01 Billing SCS Originating SCS Responsible TY Supervising SCS	Zyomyx, Inc.  Ref#:	PROTEOMIC PROFILING OF CYTOKINE EXPRESSION (CLOSED)	Country: U.S. Status: Expired Filing Date: 9/5/2003 Application #: 60/500,538 Issue Date: Patent #: Expiry Date:	
6722-67191-01 Billing SCS Originating SCS Responsible SCS Emergency MDJ	Zyomyx, Inc.  Ref#:	METHODS AND REAGENTS FOR SURFACE FUNCTIONALIZATION (PRO)	Country: U.S. Status: Expired Filing Date: 11/4/2003 Application #: 60/518,398 Issue Date: Patent #: Expiry Date:	

## Patent case list

matter id begins '6722-' and area of law contains 'patent' and area of law not contain 'other'

Matter ID	Client	Description	Prosecution Details	Docket
6722-68251-01 Billing SCS Originating LMC Responsible MDJ Supervising SCS	Zyomyx, Inc.  Ref#:	HIGHLY TIME RESOLVED IMPEDANCE SPECTROSCOPY (US)	Country: U.S. Status: Issued Filing Date: 9/29/2000 Application #: 09/675,706 Issue Date: 4/29/2003 Patent #: 6,556,001 Expiry Date: 9/29/2020	04/29/2015 Due 3d maintenance with 6M grace period 04/29/2017 Deadline inadvertent lapse revival
6722-68252-01 Originating LMC Responsible MDJ Emergency SCS Billing SCS	Zyomyx, Inc.  Ref#:	HIGHLY TIME RESOLVED IMPEDANCE SPECTROSCOPY (CON)	Country: U.S. Status: Issued Filing Date: 3/4/2003 Application #: 10/382,732 Issue Date: 3/21/2006 Patent #: 7,015,701 Expiry Date: 9/29/2020	09/21/2017 Due maintenance payment to CPA 09/21/2017 Due third maintenance fee 03/21/2018 Due 3d maintenance with 6M grace period 03/21/2020 Deadline inadvertent lapse revival
6722-68253-01 Billing SCS Originating LMC Responsible MDJ Supervising SCS	Zyomyx, Inc.  Ref#:	HIGHLY TIME RESOLVED IMPEDANCE SPECTROSCOPY (PCT)	Country: PCT Status: Completed Filing Date: 9/29/2000 Application #: PCT/US00/26765 Issue Date: Patent #: Expiry Date:	

## Patent case list

matter id begins '6722-' and area of law contains 'patent' and area of law not contain 'other'

Matter ID	Client	Description	Prosecution Details	Docket
6722-68254-01 Originating LMC Billing SCS Responsible MDJ Supervising SCS	Zyomyx, Inc.  Ref#:	HIGHLY TIME RESOLVED IMPEDANCE SPECTROSCOPY (AUSTRALIA)	Country: Australia Status: Issued Filing Date: 9/29/2000 Application #: 77325/00 Issue Date: 1/20/2005 Patent #: 777114 Expiry Date: 9/29/2020	
6722-68255-01 Billing SCS Originating LMC Responsible MDJ Supervising SCS	Zyomyx, Inc.  Ref#:	HIGHLY TIME RESOLVED IMPEDANCE SPECTROSCOPY (CANADA)	Country: Canada Status: Abandoned Filing Date: 9/29/2000 Application #: 2387998 Issue Date: Patent #: Expiry Date: 9/29/2020	
6722-68256-01 Emergency SCS Billing SCS Originating LMC Responsible MDJ	Zyomyx, Inc.  Ref#:	HIGHLY TIME RESOLVED IMPEDANCE SPECTROSCOPY (EPC)	Country: EPC Status: Issued Filing Date: 9/29/2000 Application #: 00967070.4 Issue Date: 1/20/2010 Patent #: 1221041 Expiry Date: 9/29/2020	09/29/2020 Expiration of patent

## Patent case list

matter id begins '6722-' and area of law contains 'patent' and area of law not contain 'other'

Matter ID	Client	Description	Prosecution Details	Docket
6722-68256-02 Emergency SCS Originating SCS Responsible MDJ Billing SCS	Zyomyx, Inc.  Ref#:	HIGHLY TIME RESOLVED IMPEDANCE SPECTROSCOPY (FR ON 01)	Country: France Status: Issued Filing Date: 9/29/2000 Application #: 00967070.4 Issue Date: 1/20/2010 Patent #: 1221041 Expiry Date:	03/31/2015 Deadline Renewal fee and late payment surcharge
6722-68256-03 Originating SCS Emergency SCS Responsible MDJ Billing SCS	Zyomyx, Inc.  Ref#:	HIGHLY TIME RESOLVED IMPEDANCE SPECTROSCOPY (DE ON 01)	Country: Germany Status: Issued Filing Date: 9/29/2000 Application #: 00967070.4 Issue Date: 1/20/2010 Patent #: 60043738.8 Expiry Date:	03/31/2015 Deadline Renewal fee and late payment fees
6722-68256-04 Emergency SCS Billing SCS Originating SCS Responsible MDJ	Zyomyx, Inc.  Ref#:	HIGHLY TIME RESOLVED IMPEDANCE SPECTROSCOPY (UK of 01)	Country: United Kingdom Status: Issued Filing Date: 9/29/2000 Application #: 00967070.4 Issue Date: 1/20/2010 Patent #: 1221041 Expiry Date:	03/31/2015 Deadline Renewal fee and late payment fees

## Patent case list

matter id begins '6722-' and area of law contains 'patent' and area of law not contain 'other'

Matter ID	Client	Description	Prosecution Details	Docket
6722-68257-01 Billing SCS Originating LMC Responsible MDJ Emergency SCS	Zyomyx, Inc.  Ref#:	HIGHLY TIME RESOLVED IMPEDANCE SPECTROSCOPY (JAPAN)	Country: Japan Status: Abandoned Filing Date: 9/29/2000 Application #: 2001-530566 Issue Date: Patent #: Expiry Date:	
6722-68258-01 Emergency SCS Billing SCS Originating LMC Responsible MDJ	Zyomyx, Inc.  Ref#:	HIGHLY TIME RESOLVED IMPEDANCE SPECTROSCOPY (KOREA)	Country: Korean Republic Status: Abandoned Filing Date: 9/29/2000 Application #: 10/2002/7004657 Issue Date: 11/17/2005 Patent #: 530689 Expiry Date: 9/29/2020	
6722-68260-01 Billing SCS Originating LMC Responsible SCS	Zyomyx, Inc.  Ref#:	METHODS AND DEVICES FOR PERFORMING IMPEDENCE (PRO) SPECTROSCOPY	Country: U.S. Status: Expired Filing Date: 2/25/2002 Application #: 60/359,893 Issue Date: Patent #: Expiry Date:	

3/5/2015 1:28:21 PM

Page: 7



## Patent case list

matter id begins '6722-' and area of law contains 'patent' and area of law not contain 'other'

Matter ID	Client	Description	Prosecution	Details	Docket
6722-68261-01 Billing SCS Originating LMC Supervising SCS Responsible MDJ	Zyomyx, Inc.  Ref #:	METHODS AND DEVICES FOR PERFORMING IMPEDANCE (US) SPECTROSCOPY	Country: Status: Filing Date: Application #: Issue Date: Patent #: Expiry Date:	U.S. Expired 2/25/2003 10/375,510 4/26/2005 6,885,960 2/25/2023	
6722-68262-01 Billing SCS Originating LMC Supervising SCS Responsible TY	Zyomyx, Inc.  Ref #:	METHODS AND DEVICES FOR PERFORMING IMPEDANCE SPECTROSCOPY (CLOSED) (PCT)	Country: Status: Filing Date: Application #: Issue Date: Patent #: Expiry Date:	PCT Lapsed 2/25/2003 PCT/US03/05810    	
6722-68489-01 Originating LMC Responsible MDJ Emergency SCS Billing SCS	Zyomyx, Inc.  Ref #:	METHODS AND APPARATUS FOR LABEL-INDEPENDENT MONITORING (PRO) OF BIOLOGICAL INTERACTIONS ON SENSITIZED SUBSTRATES	Country: Status: Filing Date: Application #: Issue Date: Patent #: Expiry Date:	U.S. Expired 6/3/2004 60/577,250    	

## Patent case list

matter id begins '6722-' and area of law contains 'patent' and area of law not contain 'other'

Matter ID	Client	Description	Prosecution Details	Docket
6722-68489-02 Billing SCS Originating SCS Responsible MDJ Emergency SCS	Zyomyx, Inc.  Ref #:	METHODS AND APPARATUS FOR LABEL-INDEPENDENT MONITORING OF BIOLOGICAL INTERACTIONS ON SENSITIZED SUBSTRATES (PCT)	Country: PCT Status: Completed Filing Date: 6/3/2005 Application #: PCT/US2005/019691 Issue Date: Patent #: Expiry Date:	
6722-68489-03 Billing SCS Originating SCS Responsible MDJ Emergency SCS	Zyomyx, Inc.  Ref #:	METHODS AND APPARATUS FOR LABEL-INDEPENDENT MONITORING OF BIOLOGICAL INTERACTIONS ON SENSITIZED SUBSTRATES (U.S. NAT'L STAGE)	Country: U.S. Status: Abandoned Filing Date: 2/8/2008 Application #: 11/628,496 Issue Date: Patent #: Expiry Date:	
6722-68489-04 Billing SCS Originating SCS Responsible MDJ Emergency SCS	Zyomyx, Inc.  Ref #:	METHODS AND APPARATUS FOR LABEL-INDEPENDENT (AUSTRALIA) MONITORING OF BIOLOGICAL INTERACTIONS ON SENSITIZED SUBSTRATES	Country: Australia Status: Lapsed Filing Date: 6/3/2005 Application #: 2005250036 Issue Date: Patent #: Expiry Date: 6/3/2025	

3/5/2015 1:28:22 PM

Page: 9

## Patent case list

matter id begins '6722-' and area of law contains 'patent' and area of law not contain 'other'

Matter ID	Client	Description	Prosecution Details	Docket
6722-68489-05 Billing SCS Originating SCS Responsible MDJ Emergency SCS	Zyomyx, Inc.  Ref #:	METHODS AND APPARATUS FOR LABEL-INDEPENDENT (CANADA) MONITORING OF BIOLOGICAL INTERACTIONS ON SENSITIZED SUBSTRATES (CANADA)	Country: Canada Status: Abandoned Filing Date: 6/3/2005 Application #: 2,568,751 Issue Date: Patent #: Expiry Date: 6/3/2025	
6722-68489-06 Billing SCS Responsible MDJ Originating SCS Emergency SCS	Zyomyx, Inc.  Ref #:	METHODS AND APPARATUS FOR LABEL-INDEPENDENT MONITORING OF BIOLOGICAL INTERACTIONS ON SENSITIZED SUBSTRATES (CONTINUATION)	Country: U.S. Status: Abandoned Filing Date: 2/1/2008 Application #: 12/024,988 Issue Date: Patent #: Expiry Date:	
6722-68649-01 Emergency MDJ Originating LMC Responsible SCS Billing SCS	Zyomyx, Inc.  Ref #:	(TRANSFERRED) NON-SPECIFIC BINDING RESISTANT PROTEIN ARRAYS AND METHODS FOR MAKING THE SAME	Country: U.S. Status: Expired Filing Date: 10/27/2001 Application #: 10/046,442 Issue Date: 5/24/2005 Patent #: 6,897,073 Expiry Date: 7/24/2018	05/24/2015 Deadline inadvertent lapse revival 11/24/2016 Due maintenance payment to CPA 11/24/2016 Due third maintenance fee 05/24/2017 Due 3d maintenance with 6M grace period 05/24/2019 Deadline inadvertent lapse revival

## Patent case list

matter id begins '6722-' and area of law contains 'patent' and area of law not contain 'other'

Matter ID	Client	Description	Prosecution Details	Docket
6722-68649-02 Billing SCS Originating SCS Responsible SCS Emergency MDJ	Zyomyx, Inc.  Ref#:	NON-SPECIFIC BINDING RESISTANT PROTEIN ARRAYS AND METHODS FOR MAKING THE SAME (CONTINUATION)	Country: U.S. Status: Issued Filing Date: 5/24/2005 Application #: 11/137,457 Issue Date: 7/24/2007 Patent #: 7,247,469 Expiry Date: 7/14/2018	07/24/2015 Due 2d maintenance with 6M grace period 07/24/2017 Deadline inadvertent lapse revival 01/24/2019 Due third maintenance fee 01/24/2019 Due maintenance payment to CPA 07/24/2019 Due 3d maintenance with 6M grace period 07/24/2021 Deadline inadvertent lapse revival
6722-68726-01 Supervising TMH Responsible GKS Emergency SCS Billing SCS Originating LMC Emergency MDJ	Zyomyx, Inc.  Ref#:	METHODS FOR MAKING MOLECULAR SCAFFOLDS AND (PRO) COMPOSITIONS RESULTING THEREFROM	Country: U.S. Status: Expired Filing Date: 1/16/2002 Application #: 60/349,804 Issue Date: Patent #: Expiry Date: 1/16/2003	
6722-68726-02 Responsible GKS Emergency SCS Billing SCS Originating LMC Supervising TMH	Zyomyx, Inc.  Ref#:	SYSTEM AND METHOD FOR IDENTIFYING AND USING (PRO) ENGINEERED BINDING PROTEINS	Country: U.S. Status: Expired Filing Date: 1/17/2002 Application #: 60/349,999 Issue Date: Patent #: Expiry Date: 1/17/2003	

## Patent case list

matter id begins '6722-' and area of law contains 'patent' and area of law not contain 'other'

Matter ID	Client	Description	Prosecution Details	Docket
6722-68726-03	Zyomyx, Inc.	ENGINEERED BINDING PROTEINS	Country: U.S. Status: Abandoned Filing Date: 1/16/2003 Application #: 10/347,542 Issue Date: Patent #: Expiry Date:	
Responsible GKS Billing SCS Originating LMC Supervising TMH Emergency SCS	Ref#:			
6722-68726-04	Zyomyx, Inc.	ENGINEERED BINDING PROTEINS (PCT)	Country: PCT Status: Completed Filing Date: 1/16/2003 Application #: PCT/US03/01362 Issue Date: Patent #: Expiry Date: 8/16/2004	
Responsible GKS Billing SCS Originating LMC Supervising TMH Emergency SCS	Ref#:			
6722-68726-07	Zyomyx, Inc.	ENGINEERED BINDING PROTEINS (EPC)	Country: EPC Status: Abandoned Filing Date: 1/16/2003 Application #: 03707422.6 Issue Date: Patent #: Expiry Date: 1/16/2023	
Billing SCS Originating LMC Supervising TMH Responsible GKS Emergency SCS	Ref#:			

## Patent case list

matter id begins '6722-' and area of law contains 'patent' and area of law not contain 'other'

Matter ID	Client	Description	Prosecution Details	Docket
6722-68726-08	Zyomyx, Inc.	ENGINEERED BINDING PROTEINS (CONTINUATION)	Country: U.S. Status: Abandoned Filing Date: 7/20/2007 Application #: 11/781,188 Issue Date: Patent #: Expiry Date:	
Responsible GKS Emergency SCS Billing SCS Supervising TMH Originating SCS	Ref #:			

3/5/2015 1:28:25 PM

Page: 13

P 26 of 26

RECORDED: 11/22/2016

PATENT  
REEL: 040775 FRAME: 0123