

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

EPAS ID: PAT4921817

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
ZYMOGENETICS, LLC	02/06/2015
RECEIVING PARTY DATA	
Name:	THE MEDICINES COMPANY
Street Address:	8 SYLVAN WAY
City:	PARSIPPANY
State/Country:	NEW JERSEY
Postal Code:	07054
PROPERTY NUMBERS Total: 2	
Property Type	Number
Application Number:	15463715
Application Number:	15463698
CORRESPONDENCE DATA	
Fax Number:	(312)827-8185
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.</i>	
Phone:	312-372-1121
Email:	chicago.patents@klgates.com
Correspondent Name:	K&L GATES LLP
Address Line 1:	P. O. BOX 1135
Address Line 4:	CHICAGO, ILLINOIS 60690-1135
ATTORNEY DOCKET NUMBER:	3712044.05221/5222
NAME OF SUBMITTER:	KELLY A. PLUMMER
SIGNATURE:	/Kelly A. Plummer/
DATE SIGNED:	04/18/2018
Total Attachments: 22	
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Patent Assignment Agreement

This Patent Assignment Agreement (this "Agreement"), dated as of February 6, 2015, is made and entered into by and among BRISTOL-MYERS SQUIBB COMPANY, a Delaware corporation ("BMS"), ZYMOGENETICS, INC., a Washington corporation, ZYMOGENETICS, LLC, a Delaware limited liability company (together with BMS, "Assignors"), and THE MEDICINES COMPANY, a Delaware corporation ("Assignee") (each a "Party," and together, the "Parties").

A. Pursuant to that certain Master Transaction Agreement between BMS and Assignee, dated as of December 11, 2012 (the "Master Transaction Agreement"), among other things, BMS has agreed to, and to cause the Selling Affiliates to, sell, assign, transfer, convey and deliver to Assignee all the right, title and interest of BMS and the Selling Affiliates in, to and under the Acquired Assets (including the Transferred Patent Rights) in consideration for the payment by Assignee of the Purchase Price and the assumption by Assignee of the Assumed Liabilities (all capitalized terms used but not defined herein shall have the meanings given such terms in the Master Transaction Agreement); and

B. As a condition to the Purchase Closing, the Parties agreed to enter into this Agreement pursuant to which each Assignor shall assign to Assignee all of such Assignor's right, title and interest in, to and under the Transferred Patent Rights.

NOW THEREFORE, for good and valuable consideration, , the receipt and sufficiency of which are hereby acknowledged, the Parties hereby agree as follows:

1. Assignment. Each Assignor hereby sells, assigns, conveys, transfers and delivers to Assignee, its successors and assigns, all of such Assignor's right, title and interest in, to and under the Transferred Patent Rights (attached hereto as Schedule A).

2. Due Authorization. Each Assignor hereby authorizes and requests the Commissioner of Patents of the United States and any official of any state or foreign country whose duty it is to issue intellectual property registrations, to issue all registrations from any applications for registration included in the Transferred Patent Rights to Assignee.

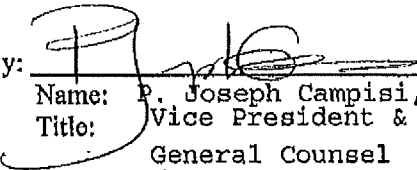
3. Governing Law. This Agreement shall be governed by and construed in accordance with the internal laws of the State of New York applicable to agreements made and to be performed entirely within such State, without regard to the conflicts of law principles of such State. This Agreement may not be waived or amended except by an instrument in writing signed on behalf of each of BMS and Assignee.

4. Counterparts. This Agreement may be executed in one or more counterparts, and by the different parties hereto in separate counterparts, each of which when executed shall be deemed to be an original but all of which taken together shall constitute one and the same agreement.

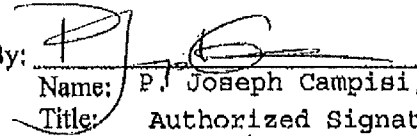
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IN WITNESS WHEREOF, the Parties have executed this Agreement as of the date first written above.

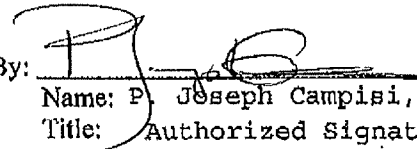
BRISTOL-MYERS SQUIBB COMPANY

By: 
Name: P. Joseph Campisi, Jr.
Title: Vice President & Associate
General Counsel

ZYMOGENETICS, INC.

By: 
Name: P. Joseph Campisi, Jr.
Title: Authorized Signatory

ZYMOGENETICS, LLC

By: 
Name: P. Joseph Campisi, Jr.
Title: Authorized Signatory

THE MEDICINES COMPANY

By: _____
Name:
Title:

[Signature Page to Patent Assignment Agreement]

PATENT
REEL: 035988 FRAME: 0727
PATENT
REEL: 045969 FRAME: 0860

Patent Assignment Agreement

This Patent Assignment Agreement (this "Agreement"), dated as of February 6, 2015, is made and entered into by and among BRISTOL-MYERS SQUIBB COMPANY, a Delaware corporation ("BMS"), ZYMOGENETICS, INC., a Washington corporation, ZYMOGENETICS, LLC, a Delaware limited liability company (together with BMS, "Assignors"), and THE MEDICINES COMPANY, a Delaware corporation ("Assignee") (each a "Party," and together, the "Parties").

A. Pursuant to that certain Master Transaction Agreement between BMS and Assignee, dated as of December 11, 2012 (the "Master Transaction Agreement"), among other things, BMS has agreed to, and to cause the Selling Affiliates to, sell, assign, transfer, convey and deliver to Assignee all the right, title and interest of BMS and the Selling Affiliates in, to and under the Acquired Assets (including the Transferred Patent Rights) in consideration for the payment by Assignee of the Purchase Price and the assumption by Assignee of the Assumed Liabilities (all capitalized terms used but not defined herein shall have the meanings given such terms in the Master Transaction Agreement); and

B. As a condition to the Purchase Closing, the Parties agreed to enter into this Agreement pursuant to which each Assignor shall assign to Assignee all of such Assignor's right, title and interest in, to and under the Transferred Patent Rights.

NOW THEREFORE, for good and valuable consideration, , the receipt and sufficiency of which are hereby acknowledged, the Parties hereby agree as follows:

1. Assignment. Each Assignor hereby sells, assigns, conveys, transfers and delivers to Assignee, its successors and assigns, all of such Assignor's right, title and interest in, to and under the Transferred Patent Rights (attached hereto as Schedule A).

2. Due Authorization. Each Assignor hereby authorizes and requests the Commissioner of Patents of the United States and any official of any state or foreign country whose duty it is to issue intellectual property registrations, to issue all registrations from any applications for registration included in the Transferred Patent Rights to Assignee.

3. Governing Law. This Agreement shall be governed by and construed in accordance with the internal laws of the State of New York applicable to agreements made and to be performed entirely within such State, without regard to the conflicts of law principles of such State. This Agreement may not be waived or amended except by an instrument in writing signed on behalf of each of BMS and Assignee.

4. Counterparts. This Agreement may be executed in one or more counterparts, and by the different parties hereto in separate counterparts, each of which when executed shall be deemed to be an original but all of which taken together shall constitute one and the same agreement.

[Signature Page Follows]

IN WITNESS WHEREOF, the Parties have executed this Agreement as of the date first written above.

BRISTOL-MYERS SQUIBB COMPANY

By: _____
Name:
Title:

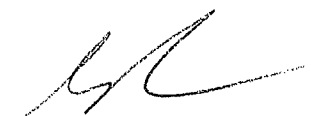
ZYMOGENETICS, INC.

By: _____
Name:
Title:

ZYMOGENETICS, LLC

By: _____
Name:
Title:

THE MEDICINES COMPANY

By:  _____
Name: Stephen Rocha
Title: SVP + General Counsel

Schedule A

Patents

See attached.

Transferred Patent Rights

Docket Number	Title	Case Status	Filing No.	Publication Number	Grant Number	Owner
Z00401-US- PSP[1]	THROMBIN COMPOSITIONS	Expiry date	60/581824			
Z00508-US- PSP[1]	METHOD FOR ACTIVATING PRETHROMBIN-1	Expiry date	60/753914			
Z00508-US- PSP[2]	METHOD FOR ACTIVATING PRETHROMBIN-1	Expiry date	60/870746			
Z00708-US- PSP[1]	STABILIZED THROMBIN COMPOSITIONS	Expiry date	60/944224			
Z00803-US- PSP[1]	THROMBIN ACTIVATOR COMPOSITIONS AND METHODS OF MAKING AND USING THE SAME	Expiry date	61/043054			
Z00804-US- PSP[1]	HEMOSTATIC MICROSPHERES	Expiry date	61/042156			
Z00804-US- PSP[2]	HEMOSTATIC MICROSPHERES	Expiry date	61/150466			
Z00807-US- PSP[1]	SPRAY TIP APPARATUS AND METHODS FOR ITS USE	Expiry date	61/125504			

PATENT

REEL: 035988 FRAME: 0731

REEL: 045969 FRAME: 0864

Docket Number	Title	Case Status	Filing No.	Publication Number	Grant Number	Owner
Z00401-AT-EPT	THROMBIN COMPOSITIONS	Grant	05766031.8	1766003	E405643	ZymoGenetics, Inc.
Z00401-AU-DIV11	THROMBIN COMPOSITIONS	Grant	2009238369		2009238369	ZymoGenetics, Inc.
Z00401-AU-PCT	THROMBIN COMPOSITIONS	Grant	2005265251		2005265251	ZymoGenetics, Inc.
Z00401-BE-EPT	THROMBIN COMPOSITIONS	Grant	05766031.8	1766003	1766003	ZymoGenetics, Inc.
Z00401-CA-PCT	THROMBIN COMPOSITIONS	Grant	2570478		2570478	ZymoGenetics, Inc.
Z00401-CH-EPT	THROMBIN COMPOSITIONS	Grant	05766031.8	1766003	1766003	ZymoGenetics, Inc.
Z00401-DE-EPT	THROMBIN COMPOSITIONS	Grant	05766031.8	1766003	1766003	ZymoGenetics, Inc.
Z00401-DE-ETD11	THROMBIN COMPOSITIONS	Grant	08004770.7	1927658	60200503652 5.7	ZymoGenetics, Inc.
Z00401-DK-EPT	THROMBIN COMPOSITIONS	Grant	05766031.8	1766003	1766003	ZymoGenetics, Inc.
Z00401-EP-EPT	THROMBIN COMPOSITIONS	Grant	05766031.8	1766003	1766003	ZymoGenetics, Inc.

Docket Number	Title	Case Status	Filing No.	Publication Number	Grant Number	Owner
Z00401-EP-ETD[1]	THROMBIN COMPOSITIONS	Grant	08004770.7	1927658	1927658	ZymoGenetics, Inc.
Z00401-ES-EPT	THROMBIN COMPOSITIONS	Grant	05766031.8	1766003	1766003	ZymoGenetics, Inc.
Z00401-ES-ETD[1]	THROMBIN COMPOSITIONS	Grant	08004770.7	1927658	1927658	ZymoGenetics, Inc.
Z00401-FR-EPT	THROMBIN COMPOSITIONS	Grant	05766031.8	1766003	1766003	ZymoGenetics, Inc.
Z00401-FR-ETD[1]	THROMBIN COMPOSITIONS	Grant	08004770.7	1927658	1927658	ZymoGenetics, Inc.
Z00401-GB-EPT	THROMBIN COMPOSITIONS	Grant	05766031.8	1766003	1766003	ZymoGenetics, Inc.
Z00401-GB-ETD[1]	THROMBIN COMPOSITIONS	Grant	08004770.7	1927658	1927658	ZymoGenetics, Inc.
Z00401-IE-EPT	THROMBIN COMPOSITIONS	Grant	05766031.8	1766003	1766003	ZymoGenetics, Inc.
Z00401-IL-PCT	THROMBIN COMPOSITIONS	Grant	179852		179852	ZymoGenetics, Inc.
Z00401-IN-PCD	THROMBIN COMPOSITIONS	Publication of application	1863/CHENP/2011	1863/CHENP/2011A		ZymoGenetics, Inc.

Docket Number	Title	Case Status	Filing No.	Publication Number	Grant Number	Owner
Z00401-IN-PCT	THROMBIN COMPOSITIONS	Grant	256/CHENP/2007		247493	ZymoGenetics, Inc.
Z00401-IT-EPT	THROMBIN COMPOSITIONS	Grant	05766031.8	1766003	1766003	ZymoGenetics, Inc.
Z00401-IT-ETD[1]	THROMBIN COMPOSITIONS	Grant	08004770.7	1927658	1927658	ZymoGenetics, Inc.
Z00401-JP-PCT	THROMBIN COMPOSITIONS	Grant	2007-518171	2008-503240	4767253	ZymoGenetics, Inc.
Z00401-LU-EPT	THROMBIN COMPOSITIONS	Grant	05766031.8	1766003	1766003	ZymoGenetics, Inc.
Z00401-NL-EPT	THROMBIN COMPOSITIONS	Grant	05766031.8	1766003	1766003	ZymoGenetics, Inc.
Z00401-US-CNT[1]	THROMBIN COMPOSITIONS	Grant	11/539276	20070104705	7473543	Zymogenetics, llc
Z00401-US-NP	THROMBIN COMPOSITIONS	Grant	11/157707	20060002918	7393674	Zymogenetics, llc
Z00401-WO-PCT	THROMBIN COMPOSITIONS	PCT CONVERTED	US05/021743	06/009989		ZymoGenetics, Inc.
Z00508-AT-EPT	METHOD FOR ACTIVATING PRETHROMBIN-1	Grant	06846013.8	1966371	1966371	ZymoGenetics, Inc.

Docket Number	Title	Case Status	Filing No.	Publication Number	Grant Number	Owner
Z00508-AU-PCT	METHOD FOR ACTIVATING PRETHROMBIN-1	Grant	2006330923		2006330923	ZymoGenetics, Inc.
Z00508-BE-EPT	METHOD FOR ACTIVATING PRETHROMBIN-1	Grant	06846013.8	1966371	1966371	ZymoGenetics, Inc.
Z00508-BG-EPT	METHOD FOR ACTIVATING PRETHROMBIN-1	Grant	06846013.8	1966371	1966371	ZymoGenetics, Inc.
Z00508-CA-PCT	METHOD FOR ACTIVATING PRETHROMBIN-1	Grant	2631715		2631715	ZymoGenetics, Inc.
Z00508-CH-EPT	METHOD FOR ACTIVATING PRETHROMBIN-1	Grant	06846013.8	1966371	1966371	ZymoGenetics, Inc.
Z00508-CY-EPT	METHOD FOR ACTIVATING PRETHROMBIN-1	Grant	06846013.8	1966371	1966371	ZymoGenetics, Inc.
Z00508-CZ-EPT	METHOD FOR ACTIVATING PRETHROMBIN-1	Grant	06846013.8	1966371	1966371	ZymoGenetics, Inc.
Z00508-DE-EPT	METHOD FOR ACTIVATING PRETHROMBIN-1	Grant	06846013.8	1966371	1966371	ZymoGenetics, Inc.

PATENT

REEL: 035988 FRAME: 0735

PATENT

REEL: 045969 FRAME: 0868

Docket Number	Title	Case Status	Filing No.	Publication Number	Grant Number	Owner
Z00508-DK-EPT	METHOD FOR ACTIVATING PRETHROMBIN-1	Grant	06846013.8	1966371	1966371	ZymoGenetics, Inc.
Z00508-EE-EPT	METHOD FOR ACTIVATING PRETHROMBIN-1	Grant	06846013.8	1966371	1966371	ZymoGenetics, Inc.
Z00508-EP-EPT	METHOD FOR ACTIVATING PRETHROMBIN-1	Grant	06846013.8	1966371	1966371	ZymoGenetics, Inc.
Z00508-ES-EPT	METHOD FOR ACTIVATING PRETHROMBIN-1	Grant	06846013.8	1966371	1966371	ZymoGenetics, Inc.
Z00508-FI-EPT	METHOD FOR ACTIVATING PRETHROMBIN-1	Grant	06846013.8	1966371	1966371	ZymoGenetics, Inc.
Z00508-FR-EPT	METHOD FOR ACTIVATING PRETHROMBIN-1	Grant	06846013.8	1966371	1966371	ZymoGenetics, Inc.
Z00508-GB-EPT	METHOD FOR ACTIVATING PRETHROMBIN-1	Grant	06846013.8	1966371	1966371	ZymoGenetics, Inc.
Z00508-GR-EPT	METHOD FOR ACTIVATING PRETHROMBIN-1	Grant	06846013.8	1966371	1966371	ZymoGenetics, Inc.

PATENT

REEL: 035988 FRAME: 0736

PATENT
REEL: 045969 FRAME: 0869

Docket Number	Title	Case Status	Filing No.	Publication Number	Grant Number	Owner
Z00508-HU-EPT	METHOD FOR ACTIVATING PRETHROMBIN-1	Grant	06846013.8	1966371	1966371	ZymoGenetics, Inc.
Z00508-IE-EPT	METHOD FOR ACTIVATING PRETHROMBIN-1	Grant	06846013.8	1966371	1966371	ZymoGenetics, Inc.
Z00508-IL-PCT	METHOD FOR ACTIVATING PRETHROMBIN-1	Local filing	191818			ZymoGenetics, Inc.
Z00508-IN-PCT	METHOD FOR ACTIVATING PRETHROMBIN-1	Local filing	3822/CHEN/P/2008			ZymoGenetics, Inc.
Z00508-IS-EPT	METHOD FOR ACTIVATING PRETHROMBIN-1	Grant	06846013.8	1966371	1966371	ZymoGenetics, Inc.
Z00508-IT-EPT	METHOD FOR ACTIVATING PRETHROMBIN-1	Grant	06846013.8	1966371	1966371	ZymoGenetics, Inc.
Z00508-JP-PCT	METHOD FOR ACTIVATING PRETHROMBIN-1	Grant	2008-547622	2009-521226	5167146	ZymoGenetics, Inc.
Z00508-LT-EPT	METHOD FOR ACTIVATING PRETHROMBIN-1	Grant	06846013.8	1966371	1966371	ZymoGenetics, Inc.

PATENT

REEL: 035988 FRAME: 0737

REEL: 045969 FRAME: 0870

Docket Number	Title	Case Status	Filing No.	Publication Number	Grant Number	Owner
Z00508-LU-EPT	METHOD FOR ACTIVATING PRETHROMBIN-1	Grant	06846013.8	1966371	1966371	ZymoGenetics, Inc.
Z00508-LV-EPT	METHOD FOR ACTIVATING PRETHROMBIN-1	Grant	06846013.8	1966371	1966371	ZymoGenetics, Inc.
Z00508-MC-EPT	METHOD FOR ACTIVATING PRETHROMBIN-1	Grant	06846013.8	1966371	1966371	ZymoGenetics, Inc.
Z00508-NL-EPT	METHOD FOR ACTIVATING PRETHROMBIN-1	Grant	06846013.8	1966371	1966371	ZymoGenetics, Inc.
Z00508-PL-EPT	METHOD FOR ACTIVATING PRETHROMBIN-1	Grant	06846013.8	1966371	1966371	ZymoGenetics, Inc.
Z00508-PT-EPT	METHOD FOR ACTIVATING PRETHROMBIN-1	Grant	06846013.8	1966371	1966371	ZymoGenetics, Inc.
Z00508-RO-EPT	METHOD FOR ACTIVATING PRETHROMBIN-1	Grant	06846013.8	1966371	1966371	ZymoGenetics, Inc.
Z00508-SE-EPT	METHOD FOR ACTIVATING PRETHROMBIN-1	Grant	06846013.8	1966371	1966371	ZymoGenetics, Inc.

PATENT

REEL: 035989 FRAME: 0738

REEL: 045969 FRAME: 0871

Docket Number	Title	Case Status	Filing No.	Publication Number	Grant Number	Owner
Z00508-SI-EPT	METHOD FOR ACTIVATING PRETHROMBIN-1	Grant	06846013.8	1966371	1966371	ZymoGenetics, Inc.
Z00508-SK-EPT	METHOD FOR ACTIVATING PRETHROMBIN-1	Grant	06846013.8	1966371	1966371	ZymoGenetics, Inc.
Z00508-TR-EPT	METHOD FOR ACTIVATING PRETHROMBIN-1	Grant	06846013.8	1966371	1966371	ZymoGenetics, Inc.
Z00508-US-PCT	METHOD FOR ACTIVATING PRETHROMBIN-1	Grant	12/097027	US20080293122A 1	8062876	Zymogenetics, llc
Z00508-WO-PCT	METHOD FOR ACTIVATING PRETHROMBIN-1	Expiry date	US06/049076	07/076033		ZymoGenetics, Inc.
Z00708-AU-PCT	STABILIZED THROMBIN COMPOSITIONS	Grant	2008266094		2008266094	ZymoGenetics, Inc.
Z00708-CA-PCT	STABILIZED THROMBIN COMPOSITIONS	Local filing	2687968			ZymoGenetics, Inc.
Z00708-DE-EPT	STABILIZED THROMBIN COMPOSITIONS	Grant	08780809.3	2167041	2167041	ZymoGenetics, Inc.
Z00708-EP-EPT	STABILIZED THROMBIN COMPOSITIONS	Grant	08780809.3	2167041	2167041	ZymoGenetics, Inc.

Docket Number	Title	Case Status	Filing No.	Publication Number	Grant Number	Owner
Z00708-ES-EPT	STABILIZED THROMBIN COMPOSITIONS	Grant	08780809.3	2167041	2167041	ZymoGenetics, Inc.
Z00708-FR-EPT	STABILIZED THROMBIN COMPOSITIONS	Grant	08780809.3	2167041	2167041	ZymoGenetics, Inc.
Z00708-GB-EPT	STABILIZED THROMBIN COMPOSITIONS	Grant	08780809.3	2167041	2167041	ZymoGenetics, Inc.
Z00708-IL-PCT	STABILIZED THROMBIN COMPOSITIONS	Grant	202306		202306	ZymoGenetics, Inc.
Z00708-IN-PCT	STABILIZED THROMBIN COMPOSITIONS	Local filing	245/CHENP/2010			ZymoGenetics, Inc.
Z00708-IT-EPT	STABILIZED THROMBIN COMPOSITIONS	Grant	08780809.3	2167041	2167041	ZymoGenetics, Inc.
Z00708-JP-PCT	STABILIZED THROMBIN COMPOSITIONS	Grant	2010-512373	2010-529997	5253501	ZymoGenetics, Inc.
Z00708-US-NP	STABILIZED THROMBIN COMPOSITIONS	Grant	12/138922	US20080311104A1	8071090	Zymogenetics, llc
Z00708-WO-PCT	STABILIZED THROMBIN COMPOSITIONS	Expiry date	US08/066850	08/157304		ZymoGenetics, Inc.
Z00803-AU-PCT	THROMBIN ACTIVATOR COMPOSITIONS AND METHODS OF MAKING AND USING THE SAME	Abandoned	2009233899			ZymoGenetics, Inc.

PATENT

REEL: 035988 FRAME: 0740

REEL: 045969 FRAME: 0873

Docket Number	Title	Case Status	Filing No.	Publication Number	Grant Number	Owner
Z00803-CA-PCT	THROMBIN ACTIVATOR COMPOSITIONS AND METHODS OF MAKING AND USING THE SAME	Abandoned	2716738			ZymoGenetics, Inc.
Z00803-EP-EPT	THROMBIN ACTIVATOR COMPOSITIONS AND METHODS OF MAKING AND USING THE SAME	Abandoned	09731098.1	2271675		ZymoGenetics, Inc.
Z00803-IL-PCT	THROMBIN ACTIVATOR COMPOSITIONS AND METHODS OF MAKING AND USING THE SAME	Abandoned	207540			ZymoGenetics, Inc.
Z00803-IN-PCT	THROMBIN ACTIVATOR COMPOSITIONS AND METHODS OF MAKING AND USING THE SAME	Abandoned	6316/CHENP/10	6316/CHENP/2010		ZymoGenetics, Inc.
Z00803-JP-PCT	THROMBIN ACTIVATOR COMPOSITIONS AND METHODS OF MAKING AND USING THE SAME	Abandoned	2011-504124	2011-516081		ZymoGenetics, Inc.
Z00803-US-PCT	THROMBIN ACTIVATOR COMPOSITIONS AND METHODS OF MAKING AND USING THE SAME	Grant	12/935235	US20110151536A1	8759066	Zymogenetics, llc

PATENT

REEL: 035988 FRAME: 0741

REEL: 045969 FRAME: 0874

Docket Number	Title	Case Status	Filing No.	Publication Number	Grant Number	Owner
Z00803-WO-PCT	THROMBIN ACTIVATOR COMPOSITIONS AND METHODS OF MAKING AND USING THE SAME	Expiry date	US09/039757	09/126616		ZymoGenetics, Inc.
Z00804-AU-PCT	HEMOSTATIC MICROSPHERES	Local filing	2009232000			ZymoGenetics, Inc.
Z00804-GA-PCT	HEMOSTATIC MICROSPHERES	Local filing	2716010			ZymoGenetics, Inc.
Z00804-EP-EPT	HEMOSTATIC MICROSPHERES	Publication of application	09728223.0	2265728		ZymoGenetics, Inc.
Z00804-IL-PCT	HEMOSTATIC MICROSPHERES	Local filing	207709			ZymoGenetics, Inc.
Z00804-IN-PCT	HEMOSTATIC MICROSPHERES	Publication of application	6232/CHENP/2010	6232/CHENP/2010A		ZymoGenetics, Inc.
Z00804-JP-PCT	HEMOSTATIC MICROSPHERES	Grant	2011-503043	2011-518780	5562324	ZymoGenetics, Inc.
Z00804-US-PCT	HEMOSTATIC MICROSPHERES	Publication of application	12/935114	US20110125089A1		Zymogenetics, llc
Z00804-WO-PCT	HEMOSTATIC MICROSPHERES	Expiry date	PCT/US09/038320	09/038320		ZymoGenetics, Inc.

Docket Number	Title	Case Status	Filing No.	Publication Number	Grant Number	Owner
Z00807-AU-PCT	MEDICAL DEVICES FOR DELIVERING FLUIDS DURING SURGERY AND METHODS FOR THEIR USE	Local filing	2009240441			ZymoGenetics, Inc.
Z00807-CA-PCT	MEDICAL DEVICES FOR DELIVERING FLUIDS DURING SURGERY AND METHODS FOR THEIR USE	Local filing	2721462			ZymoGenetics, Inc.
Z00807-EP-EPT	MEDICAL DEVICES FOR DELIVERING FLUIDS DURING SURGERY AND METHODS FOR THEIR USE	Publication of application	09734534.2	2271267		ZymoGenetics, Inc.
Z00807-IL-PCT	MEDICAL DEVICES FOR DELIVERING FLUIDS DURING SURGERY AND METHODS FOR THEIR USE	Abandoned	208653			ZymoGenetics, Inc.
Z00807-IN-PCT	MEDICAL DEVICES FOR DELIVERING FLUIDS DURING SURGERY AND METHODS FOR THEIR USE	Abandoned	6813/CHENP/10	6813/CHENP/10		ZymoGenetics, Inc.

PATENT

REEL: 035988 FRAME: 0743

REEL: 045969 FRAME: 0876

Docket Number	Title	Case Status	Filing No.	Publication Number	Grant Number	Owner
Z00807-JP-PCT	MEDICAL DEVICES FOR DELIVERING FLUIDS DURING SURGERY AND METHODS FOR THEIR USE	Abandoned	2011-506492	2011-518621		ZymoGenetics, Inc.
Z00807-US-PCT	MEDICAL DEVICES FOR DELIVERING FLUIDS DURING SURGERY AND METHODS FOR THEIR USE	Publication of application	12/988353	US20110166550A 1		Zymogenetics, llc
Z00807-WO-PCT	MEDICAL DEVICES FOR DELIVERING FLUIDS DURING SURGERY AND METHODS FOR THEIR USE	Expiry date	US09/041772	09/132331		ZymoGenetics, Inc.
Z09115-AT-EPT	METHODS FOR PRODUCING THROMBIN	Grant	93902869.2	0624199	E179754	ZymoGenetics, Inc.
Z09115-AU-PCT	METHODS FOR PRODUCING THROMBIN	Grant	34287/92		683834	ZymoGenetics, Inc.
Z09115-BE-EPT	METHODS FOR PRODUCING THROMBIN	Grant	93902869.2	0624199	0624199	ZymoGenetics, Inc.
Z09115-CA-PCT	METHODS FOR PRODUCING THROMBIN	Grant	2125783		2125783	ZymoGenetics, Inc.

Docket Number	Title	Case Status	Filing No.	Publication Number	Grant Number	Owner
Z09115-CH-EPT	METHODS FOR PRODUCING THROMBIN	Grant	93902869.2	0624199	0624199	ZymoGenetics, Inc.
Z09115-DE-EPT	METHODS FOR PRODUCING THROMBIN	Grant	93902869.2	0624199	69229126.1	ZymoGenetics, Inc.
Z09115-DK-EPT	METHODS FOR PRODUCING THROMBIN	Grant	93902869.2	0624199	0624199	ZymoGenetics, Inc.
Z09115-EP-EPT	METHODS FOR PRODUCING THROMBIN	Grant	93902869.2	0624199	0624199	ZymoGenetics, Inc.
Z09115-ES-EPT	METHODS FOR PRODUCING THROMBIN	Grant	93902869.2	0624199	0624199	ZymoGenetics, Inc.
Z09115-FI-PCT	METHODS FOR PRODUCING THROMBIN	Grant	943122		117831	ZymoGenetics, Inc.
Z09115-FR-EPT	METHODS FOR PRODUCING THROMBIN	Grant	93902869.2	0624199	0624199	ZymoGenetics, Inc.
Z09115-GB-EPT	METHODS FOR PRODUCING THROMBIN	Grant	93902869.2	0624199	0624199	ZymoGenetics, Inc.
Z09115-GR-EPT	METHODS FOR PRODUCING THROMBIN	Grant	93902869.2	0624199	3030820	ZymoGenetics, Inc.
Z09115-IE-EPT	METHODS FOR PRODUCING THROMBIN	Grant	93902869.2	0624199	0624199	ZymoGenetics, Inc.

Docket Number	Title	Case Status	Filing No.	Publication Number	Grant Number	Owner
Z09115-IT-EPT	METHODS FOR PRODUCING THROMBIN	Grant	93902869.2	0624199	0624199	ZymoGenetics, Inc.
Z09115-JP-PCT	METHODS FOR PRODUCING THROMBIN	Grant	5-511968	7-502659	3404038	ZymoGenetics, Inc.
Z09115-LU-EPT	METHODS FOR PRODUCING THROMBIN	Grant	93902869.2	0624199	0624199	ZymoGenetics, Inc.
Z09115-MC-EPT	METHODS FOR PRODUCING THROMBIN	Grant	93902869.2	0624199	0624199	ZymoGenetics, Inc.
Z09115-NL-EPT	METHODS FOR PRODUCING THROMBIN	Grant	93902869.2	0624199	0624199	ZymoGenetics, Inc.
Z09115-NO-PCT	DNA konstruksjon, vertelle, fremgangsmater for fremstilling av Trombin, farmasoytisk sammensetning samt anvendelser de	Grant	19942456		317018	ZymoGenetics, Inc.
Z09115-PT-EPT	METHODS FOR PRODUCING THROMBIN	Grant	93902869.2	0624199	0624199	ZymoGenetics, Inc.
Z09115-SE-EPT	METHODS FOR PRODUCING THROMBIN	Grant	93902869.2	0624199	0624199	ZymoGenetics, Inc.
Z09115-US-CIP11	METHOD FOR PRODUCING THROMBIN	Abandoned	07/860701			

Docket Number	Title	Case Status	Filing No.	Publication Number	Grant Number	Owner
Z09115-US-CIP[2]	METHODS FOR PRODUCING THROMBIN	Grant	07/998972		5476777	Zymogenetics, llc
Z09115-US-DIV[1]	METHODS FOR PRODUCING THROMBIN	Expiry date	08/462261		5527692	Zymogenetics, llc
Z09115-US-DIV[2]	METHODS FOR PRODUCING THROMBIN	Expiry date	08/463953		5502034	Zymogenetics, llc
Z09115-US-NP	METHODS FOR PRODUCING THROMBIN	Abandoned	07/816281			ZymoGenetics, Inc.
Z09115-WO-PCT	METHODS FOR PRODUCING THROMBIN	PCT CONVERTED	PCT/US1992/011357	WO1993/013208		ZymoGenetics, Inc.

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REEL: 035988 FRAME: 0747

PATENT

REEL: 045969 FRAME: 0880

RECORDED: 06/22/2015

RECORDED: 04/18/2018