PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

EPAS ID: PAT2871253

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
XIAODONG MA	02/19/2014
MIN-SHYAN SHEU	04/26/2014
LINCOLN ERAMO	02/24/2014
JOHN WAINWRIGHT	02/24/2014
JUNWEI LI	02/20/2014

RECEIVING PARTY DATA

Name:	COVIDIEN LP
Street Address:	15 HAMPSHIRE STREET
City:	MANSFIELD
State/Country:	MASSACHUSETTS
Postal Code:	02048

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	14087459

CORRESPONDENCE DATA

Fax Number: (508)261-6225

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.

Phone: 508-261-8000

iplegalus@covidien.com Email:

Correspondent Name: COVIDIEN LP

Address Line 1: 15 HAMPSHIRE STREET

Address Line 4: MANSFIELD, MASSACHUSETTS 02048

ATTORNEY DOCKET NUMBER:	H-KN-02841
NAME OF SUBMITTER:	MARK KERTZ
SIGNATURE:	/mark kertz/
DATE SIGNED:	05/27/2014

Total Attachments: 10

source=HKN-02841_AZ-Ma#page1.tif source=HKN-02841 AZ-Ma#page2.tif

> **PATENT** REEL: 032965 FRAME: 0865 502824657

source=HKN02841US AZ_Sheu#page1.tif
source=HKN02841US AZ_Sheu#page2.tif
source=HKN02841US_AZ_Eramo#page1.tif
source=HKN02841US_AZ_Eramo#page2.tif
source=HKN-02841_AZ-Wainwright#page1.tif
source=HKN-02841_AZ-Wainwright#page2.tif
source=HKN-02841_AZ-Li#page1.tif
source=HKN-02841_AZ-Li#page2.tif

PATENT REEL: 032965 FRAME: 0866

For good and valuable consideration, the receipt of which is hereby acknowledged, we jointly and each individually, the undersigned ASSIGNORS,

Xiaodong Ma, 3 Carter Street, Apt. 9, Hudson, MA 01749 Min-Shyan Sheu, 21 Marina Road, Chelmsford, MA 01824 Lincoln Eramo, 34125 Pourroy Road, Winchester, CA 92596 John Wainwright, 37 Ametrine Way, Rancho Santa Margarita, CA 92688 Junwei Li, 3 New Haven, Irvine, CA 92620

HEREBY ASSIGN, TRANSFER, AND SELL, without restrictions, reservations, or limitations, our and my entire right, title, and interest in and to any and all inventions disclosed and/or claimed in application for Letters Patent titled

ANTI-THROMBOGENIC MEDICAL DEVICES AND METHODS bearing U.S. Patent Application No. 14/087,459 filed on November 22, 2013

unto ASSIGNEE,

COVIDIEN LP

a Delaware limited partnership having a place of business at 15 Hampshire Street, Mansfield, Massachusetts 02048 USA, its successors and assigns, in and throughout the United States of America, its territories and dependencies, and all countries foreign thereto, in and to any and all said inventions and said application, and/or international application filed under any international patent law treaty, including the Patent Cooperation Treaty, and including any and all national stage, regional stage, provisional, non-provisional, continuation, divisional, continuing, and reissue applications based in whole or in part on said applications and/or in whole or in part on any said inventions, including the right to claim priority thereto, and any and all patents including extensions thereof of any country which have been or may be granted on any of said applications or including said inventions or any part thereof, as fully and entirely as the same would have been held and enjoyed by us and me had no sale and assignment of said interest been made; and to enforce any said patents in any court of competent jurisdiction and obtain all remedies available, including but not limited to, injunctions and to recover lost profits or compensatory and enhanced damages and attorney fees for any and all infringements thereof;

HEREBY jointly and each individually agree for ourselves and for our respective heirs, executors and administrators, to execute without further consideration any further lawful documents and any further assurances, and any provisional, non-provisional, continuation, divisional, continuing, reissue, national, regional or other applications for patents of any country, that may be deemed necessary by said ASSIGNEE fully to secure to said ASSIGNEE its interest as aforesaid in and to said any and all inventions or any part thereof, and in and to said several patents or any of said patents;

Application No.: 14/087,459

Docket No.: H-KN-02841 US (1847-234)

HEREBY jointly and each individually authorize said ASSIGNEE and/or any legal representative of said ASSIGNEE to modify this Assignment solely to include any identifying information for any and all said patent applications, including patent application number and patent application filing date; and

HEREBY jointly and each individually covenant for ourselves and our respective legal representatives that we have granted no right or license to make, use, or sell said invention to anyone except said ASSIGNEE, that prior to the execution of this deed, our right, title and interest in said invention had not been otherwise encumbered, and that we have not executed and will not execute any instrument in conflict herewith.

IN WITNESS WHEREOF, I have hereunto set hand and seal on the date indicated. Witness Name: _CHIRAK B. SHAM Min-Shyan Sheu Witness Name: Date Witness Lincoln Eramo Name: Date Witness John Wainwright Name: Date Witness Junwei Li Name: ___ Date

For good and valuable consideration, the receipt of which is hereby acknowledged, we jointly and each individually, the undersigned ASSIGNORS,

Xiaodong Ma, 3 Carter Street, Apt. 9, Hudson, MA 01749 Min-Shyan Sheu, 21 Marina Road, Chelmsford, MA 01824 Lincoln Eramo, 34125 Pourroy Road, Winchester, CA 92596 John Wainwright, 37 Ametrine Way, Rancho Santa Margarita, CA 92688 Junwei Li, 3 New Haven, Irvine, CA 92620

HEREBY ASSIGN, TRANSFER, AND SELL, without restrictions, reservations, or limitations, our and my entire right, title, and interest in and to any and all inventions disclosed and/or claimed in application for Letters Patent titled

ANTI-THROMBOGENIC MEDICAL DEVICES AND METHODS bearing U.S. Patent Application No. 14/087,459 filed on November 22, 2013

unto ASSIGNEE,

47.7

COVIDIEN LP

a Delaware limited partnership having a place of business at 15 Hampshire Street, Mansfield, Massachusetts 02048 USA, its successors and assigns, in and throughout the United States of America, its territories and dependencies, and all countries foreign thereto, in and to any and all said inventions and said application, and/or international application filed under any international patent law treaty, including the Patent Cooperation Treaty, and including any and all national stage, regional stage, provisional, non-provisional, continuation, divisional, continuing, and reissue applications based in whole or in part on said applications and/or in whole or in part on any said inventions, including the right to claim priority thereto, and any and all patents including extensions thereof of any country which have been or may be granted on any of said applications or including said inventions or any part thereof, as fully and entirely as the same would have been held and enjoyed by us and me had no sale and assignment of said interest been made; and to enforce any said patents in any court of competent jurisdiction and obtain all remedies available, including but not limited to, injunctions and to recover lost profits or compensatory and enhanced damages and attorney fees for any and all infringements thereof;

HEREBY jointly and each individually agree for ourselves and for our respective heirs, executors and administrators, to execute without further consideration any further lawful documents and any further assurances, and any provisional, non-provisional, continuation, divisional, continuing, reissue, national, regional or other applications for patents of any country, that may be deemed necessary by said ASSIGNEE fully to secure to said ASSIGNEE its interest as aforesaid in and to said any and all inventions or any part thereof, and in and to said several patents or any of said patents;

Application No.: 14/087,459

Docket No.: H-KN-02841 US (1847-234)

HEREBY jointly and each individually authorize said ASSIGNEE and/or any legal representative of said ASSIGNEE to modify this Assignment solely to include any identifying information for any and all said patent applications, including patent application number and patent application filing date; and

HEREBY jointly and each individually covenant for ourselves and our respective legal representatives that we have granted no right or license to make, use, or sell said invention to anyone except said ASSIGNEE, that prior to the execution of this deed, our right, title and interest in said invention had not been otherwise encumbered, and that we have not executed and will not execute any instrument in conflict herewith.

Xiaodong Ma	Witness
	Name:
Date	
<u> </u>	Witness Name: HS14-Chura Lin
Min-Shyan Sheu 4/26/14 Date	Witness Name: HS14-Chican Lin
Date	
Lincoln Eramo	Witness Name:
Date	
John Wainwright	Witness Name:
Date	
Junwei Li	Witness
	Name:
Date	

For good and valuable consideration, the receipt of which is hereby acknowledged, we jointly and each individually, the undersigned ASSIGNORS,

Xiaodong Ma, 3 Carter Street, Apt. 9, Hudson, MA 01749 Min-Shyan Sheu, 21 Marina Road, Chelmsford, MA 01824 Lincoln Eramo, 34125 Pourroy Road, Winchester, CA 92596 John Wainwright, 37 Ametrine Way, Rancho Santa Margarita, CA 92688 Junwei Li, 3 New Haven, Irvine, CA 92620

HEREBY ASSIGN, TRANSFER, AND SELL, without restrictions, reservations, or limitations, our and my entire right, title, and interest in and to any and all inventions disclosed and/or claimed in application for Letters Patent titled

ANTI-THROMBOGENIC MEDICAL DEVICES AND METHODS bearing U.S. Patent Application No. 14/087,459 filed on November 22, 2013

unto ASSIGNEE,

COVIDIEN LP

a Delaware limited partnership having a place of business at 15 Hampshire Street, Mansfield, Massachusetts 02048 USA, its successors and assigns, in and throughout the United States of America, its territories and dependencies, and all countries foreign thereto, in and to any and all said inventions and said application, and/or international application filed under any international patent law treaty, including the Patent Cooperation Treaty, and including any and all national stage, regional stage, provisional, non-provisional, continuation, divisional, continuing, and reissue applications based in whole or in part on said applications and/or in whole or in part on any said inventions, including the right to claim priority thereto, and any and all patents including extensions thereof of any country which have been or may be granted on any of said applications or including said inventions or any part thereof, as fully and entirely as the same would have been held and enjoyed by us and me had no sale and assignment of said interest been made; and to enforce any said patents in any court of competent jurisdiction and obtain all remedies available, including but not limited to, injunctions and to recover lost profits or compensatory and enhanced damages and attorney fees for any and all infringements thereof;

HEREBY jointly and each individually agree for ourselves and for our respective heirs, executors and administrators, to execute without further consideration any further lawful documents and any further assurances, and any provisional, non-provisional, continuation, divisional, continuing, reissue, national, regional or other applications for patents of any country, that may be deemed necessary by said ASSIGNEE fully to secure to said ASSIGNEE its interest as aforesaid in and to said any and all inventions or any part thereof, and in and to said several patents or any of said patents;

Page 1 of 2

PATENT REEL: 032965 FRAME: 0871

Application No.: 14/087,459

Docket No.: H-KN-02841 US (1847-234)

HEREBY jointly and each individually authorize said ASSIGNEE and/or any legal representative of said ASSIGNEE to modify this Assignment solely to include any identifying information for any and all said patent applications, including patent application number and patent application filing date; and

HEREBY jointly and each individually covenant for ourselves and our respective legal representatives that we have granted no right or license to make, use, or sell said invention to anyone except said ASSIGNEE, that prior to the execution of this deed, our right, title and interest in said invention had not been otherwise encumbered, and that we have not executed and will not execute any instrument in conflict herewith.

Xiaodong Ma	Witness
Date	Name:
Min-Shyan Sheu	Witness Name:
Date	
Jundu Cruns fe Lincoln Eramo 24 FEB 14	Witness
Date 7	Name:
T. L. XVI	W
John Wainwright	Witness Name:
Date	
Junwei Li	Witness
Date	Name:

For good and valuable consideration, the receipt of which is hereby acknowledged, we jointly and each individually, the undersigned ASSIGNORS,

Xiaodong Ma, 3 Carter Street, Apt. 9, Hudson, MA 01749 Min-Shyan Sheu, 21 Marina Road, Chelmsford, MA 01824 Lincoln Eramo, 34125 Pourroy Road, Winchester, CA 92596 John Wainwright, 37 Ametrine Way, Rancho Santa Margarita, CA 92688 Junwei Li, 3 New Haven, Irvine, CA 92620

HEREBY ASSIGN, TRANSFER, AND SELL, without restrictions, reservations, or limitations, our and my entire right, title, and interest in and to any and all inventions disclosed and/or claimed in application for Letters Patent titled

ANTI-THROMBOGENIC MEDICAL DEVICES AND METHODS bearing U.S. Patent Application No. 14/087,459 filed on November 22, 2013

unto ASSIGNEE,

COVIDIEN LP

a Delaware limited partnership having a place of business at 15 Hampshire Street, Mansfield, Massachusetts 02048 USA, its successors and assigns, in and throughout the United States of America, its territories and dependencies, and all countries foreign thereto, in and to any and all said inventions and said application, and/or international application filed under any international patent law treaty, including the Patent Cooperation Treaty, and including any and all national stage, regional stage, provisional, non-provisional, continuation, divisional, continuing, and reissue applications based in whole or in part on said applications and/or in whole or in part on any said inventions, including the right to claim priority thereto, and any and all patents including extensions thereof of any country which have been or may be granted on any of said applications or including said inventions or any part thereof, as fully and entirely as the same would have been held and enjoyed by us and me had no sale and assignment of said interest been made; and to enforce any said patents in any court of competent jurisdiction and obtain all remedies available, including but not limited to, injunctions and to recover lost profits or compensatory and enhanced damages and attorney fees for any and all infringements thereof;

HEREBY jointly and each individually agree for ourselves and for our respective heirs, executors and administrators, to execute without further consideration any further lawful documents and any further assurances, and any provisional, non-provisional, continuation, divisional, continuing, reissue, national, regional or other applications for patents of any country, that may be deemed necessary by said ASSIGNEE fully to secure to said ASSIGNEE its interest as aforesaid in and to said any and all inventions or any part thereof, and in and to said several patents or any of said patents;

Application No.: 14/087,459

Docket No.: H-KN-02841 US (1847-234)

HEREBY jointly and each individually authorize said ASSIGNEE and/or any legal representative of said ASSIGNEE to modify this Assignment solely to include any identifying information for any and all said patent applications, including patent application number and patent application filing date; and

HEREBY jointly and each individually covenant for ourselves and our respective legal representatives that we have granted no right or license to make, use, or sell said invention to anyone except said ASSIGNEE, that prior to the execution of this deed, our right, title and interest in said invention had not been otherwise encumbered, and that we have not executed and will not execute any instrument in conflict herewith.

Xiaodong Ma	Witness
	Name:
Date	
Min-Shyan Sheu	Witness
	Name:
Date	
Lincoln Eramo	Witness
	Name:
Date	
M. Warn last	File Jehr
John Wainwright 24 Feb / 4	Witness Name: EDHEM SADIKOVIC
Date	
Junwei Li	Witness
UMILITUE LIE	Name:
Date	

For good and valuable consideration, the receipt of which is hereby acknowledged, we jointly and each individually, the undersigned ASSIGNORS,

Xiaodong Ma, 3 Carter Street, Apt. 9, Hudson, MA 01749 Min-Shyan Sheu, 21 Marina Road, Chelmsford, MA 01824 Lincoln Eramo, 34125 Pourroy Road, Winchester, CA 92596 John Wainwright, 37 Ametrine Way, Rancho Santa Margarita, CA 92688 Junwei Li, 3 New Haven, Irvine, CA 92620

HEREBY ASSIGN, TRANSFER, AND SELL, without restrictions, reservations, or limitations, our and my entire right, title, and interest in and to any and all inventions disclosed and/or claimed in application for Letters Patent titled

ANTI-THROMBOGENIC MEDICAL DEVICES AND METHODS bearing U.S. Patent Application No. 14/087,459 filed on November 22, 2013

unto ASSIGNEE,

COVIDIEN LP

a Delaware limited partnership having a place of business at 15 Hampshire Street, Mansfield, Massachusetts 02048 USA, its successors and assigns, in and throughout the United States of America, its territories and dependencies, and all countries foreign thereto, in and to any and all said inventions and said application, and/or international application filed under any international patent law treaty, including the Patent Cooperation Treaty, and including any and all national stage, regional stage, provisional, non-provisional, continuation, divisional, continuing, and reissue applications based in whole or in part on said applications and/or in whole or in part on any said inventions, including the right to claim priority thereto, and any and all patents including extensions thereof of any country which have been or may be granted on any of said applications or including said inventions or any part thereof, as fully and entirely as the same would have been held and enjoyed by us and me had no sale and assignment of said interest been made; and to enforce any said patents in any court of competent jurisdiction and obtain all remedies available, including but not limited to, injunctions and to recover lost profits or compensatory and enhanced damages and attorney fees for any and all infringements thereof;

HEREBY jointly and each individually agree for ourselves and for our respective heirs, executors and administrators, to execute without further consideration any further lawful documents and any further assurances, and any provisional, non-provisional, continuation, divisional, continuing, reissue, national, regional or other applications for patents of any country, that may be deemed necessary by said ASSIGNEE fully to secure to said ASSIGNEE its interest as aforesaid in and to said any and all inventions or any part thereof, and in and to said several patents or any of said patents;

Application No.: 14/087,459

Docket No.: H-KN-02841 US (1847-234)

HEREBY jointly and each individually authorize said ASSIGNEE and/or any legal representative of said ASSIGNEE to modify this Assignment solely to include any identifying information for any and all said patent applications, including patent application number and patent application filing date; and

HEREBY jointly and each individually covenant for ourselves and our respective legal representatives that we have granted no right or license to make, use, or sell said invention to anyone except said ASSIGNEE, that prior to the execution of this deed, our right, title and interest in said invention had not been otherwise encumbered, and that we have not executed and will not execute any instrument in conflict herewith.

Manager and the second	
Xiaodong Ma	Witness
Date	Name:
Min-Shyan Sheu	Witness Name:
Date	Indine.
Lincoln Eramo	Witness Name:
Date	
John Wainwright	Witness Name:
Date	
& Timwer	Hoth Edh
Junwei Li 20 FEB (4	Witness Name: EDHEM SADIKOVIĆ
Date	