504468332 07/21/2017

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4515034

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
ERIKA CORBIN	01/12/2017
NICOLE RENEE FALLACARO	01/13/2017
STEVEN F. KRAUSE	07/12/2017
ABRAM REITBLAT	02/13/2017

RECEIVING PARTY DATA

Name:	STRYKER EUROPEAN HOLDINGS I, LLC
Street Address:	2825 AIRVIEW BOULEVARD
City:	KALAMAZOO
State/Country:	MICHIGAN
Postal Code:	49002

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15399837

CORRESPONDENCE DATA

Fax Number: (908)654-7866

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: (908) 518-6383

Email: assignment@lernerdavid.com

Correspondent Name: LERNER, DAVID, LITTENBERG, KRUMHOLZ & MENTLIK, LLP

Address Line 1: 600 SOUTH AVENUE WEST

Address Line 4: WESTFIELD, NEW JERSEY 07090

ATTORNEY DOCKET NUMBER:	SPINE 3.0F-614
NAME OF SUBMITTER:	MELINDA C. CORMIER
SIGNATURE:	/Meinda C. Cormier/
DATE SIGNED:	07/21/2017

Total Attachments: 4

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PATENT 504468332 REEL: 043064 FRAME: 0792

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PATENT REEL: 043064 FRAME: 0793

COMBINED DECLARATION AND ASSIGNMENT FOR UTILITY OR DESIGN APPLICATION (37 CFR 1.63) USING AN APPLICATION DATA SHEET Attorney, Dacket No. **SPINE 3.0F-614** Title of the Invention ("Invention") <u>TAP MARKER</u> Legal Name of Inventor/Assignor Erika Corbin ("Inventor/Assignor") Assignee ("Assignee") Stryker European Holdings I, LLC, limited liability company incorporated under the laws of the State of Delaware, having its principal place of business at 2825 Airview Boulevard, Kalamazoo, MI 49002, United States of America, acting in its capacity as sole general partner of STRYKER EUROPEAN TECHNOLOGIES C.V., a limited partnership established under the laws of the Netherlands ("commanditaire vennootschap"), having its registered office at Canon's Court, 22 Victoria Street, Hamilton, HM 12, Bermuda. DECLARATION As named inventor, I hereby declare that: this declaration is directed to: The attached Application OR United States Application Number or PCT International Application Number 15/399,837 filed on January 6, 2017 the above-identified Application is/was made or authorized to be made by me; (iii) I believe I am the original inventor or an original joint inventor of a claimed invention in the above-identified Application; and I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not (iv) more than five (5) years, or both. WHEREAS, Assignor wishes to assign to Assignee, and Assignee wishes to acquire, the entire right, title, and interest to the Invention and the Application; NOW, THEREFORE, for good and valuable consideration, the receipt and adequacy of which are hereby acknowledged, Assignor hereby sells, assigns, transfers and sets over to Assignee, and Assignee hereby accepts, the entire right, title and interest, for the United States of America and all other countries, in and to the Invention and the Application and all original, divisional, continuation, continuation-in-part, substitute or reissue applications and patents applied for or granted therefor in the United States of America and all other countries for the Invention, including without limitation all applications and patents for the Invention claiming priority or benefit of the Application pursuant to any law or treaty, and including all claims for damages by reason of past infringement with the right to sue for and collect the same for its own use and the use of its successors, assigns and legal representatives, and including the right to claim such priority or benefit, and the Commissioner of Patents and Trademarks and the Patent Office officials in foreign countries as are duly authorized by the respective foreign patent laws to issue patents are hereby authorized and requested to issue all patents on said improvements or resulting therefrom to Assignee, as assignee of the entire interest therein; and the Assignor does hereby agree and covenant without further remuneration, to execute and deliver all original, divisional, continuation, continuation-in-part, reissue and other applications for Letters Patent on the Invention and all assignments thereof to Assignee or its assigns, to communicate to Assignee or its representatives all facts known to the undersigned respecting the invention, whenever requested, to testify in any interferences or other legal proceedings in which the Application and any related applications or patents may become involved, to sign all lawful papers, make all rightful oaths, and to do generally everything necessary to aid Assignee, its successors, assigns and nominees to obtain patent protection for said improvements in all countries, the expenses incident to said applications to be borne and paid by Assignee. Assignor does hereby authorize the attorneys of Assignee and their assigns to insert on this Assignment the filing date and application number of said Application when known. I, as assignor, hereby assign to said assignee all of my right, title and interest in United States Provisional Application No. 62/276,456 filed January 8, 2016 ("Provisional(s)"), and in the invention disclosed thereto in all countries of the world including the right to claim priority or benefit of the Provisional(s) pursuant to any law or treaty in the countries of the world. WARNING: According to 37 C.F.R. 1.63 (c), "[a] person may not execute an oath or declaration unless the person has reviewed and understands the contents of the application, including claims and is aware of the duty to disclose to the Office all information known to be material to patentability as defined in 1.56." ASSIGNOR ASSIGNEE STATE OF WELLT SERVIN STATE OF MENTERSON COUNTY OF BORRES COUNTY OF BREAKLY The person whose name is subscribed to the accompanying instrument is The person whose name is subscribed to the accompanying instrument is personally known to me or has proved his/her identity to me on the basis of satisfactory evidence. On personally known to me or has proved higher identity to me on the basis of satisfactory evidence. On satisfactory evidence. On _ he/sine appeared before me and acknowledged that he/sine has read the

he/she appeared before me and acknowledged that he/she has read the accompanying instrument and knows the contents thereof, and that he/she executed the same as their free act and deed for the purposes set forth therein. If he/she is acting on behalf of an entity, he/she also acknowledged that he/she executed the accompanying instrument in his/her authorized capacity, and that by his/her signature on the instrument, the entity executed the same.

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My Commission Expires:

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accompanying instrument and knows the contents thereof, and that he/she

executed the same as their free act and deed for the purposes set forth therein. If

he/she is acting on behalf of an entity, he/she also acknowledged that he/she executed the accompanying instrument in his/her authorized capacity, and that by

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his/her signature on the instrument, the entity executed the same.

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My Commission Expires:

COMBINED DECLARATION AND ASSIGNMENT FOR UTILITY OR DESIGN APPLICATION (37 CFR 1.63) USING **AN APPLICATION DATA SHEET**

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Attorney, Docket No.	SPINE 3.0F-614	
Title of the Invention ("Invention")	TAP MARKER	
Legal Name of Inventor/Assignor ("Inventor/Assignor")	Nicole Renee Fallacaro	
Assignee ("Assignee")	Delaware, having its principal place of America, acting in its capacity a limited partnership established und	LC, limited liability company incorporated under the laws of the State of of business at 2825 Airview Boulevard, Kalamazoo, MI 49002, United States as sole general partner of STRYKER EUROPEAN TECHNOLOGIES C.V., a lier the laws of the Netherlands ("commanditaire vennootschap"), having its 22 Victoria Street, Hamilton, HM 12, Bermuda.
As named inventor, I hereby declare that:		RATION
 this declaration is directed to: The attached Applic 	cation	
OR		
X United States Applied on January	cation Number or PCT International A	Application Number 15/399,837
(ii) the above-identified Application	is/was made or authorized to be ma	
(iv) I hereby acknowledge that any more than five (5) years, or both.	willful false statement made in this o	almed invention in the above-identified Application; and declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not the to acquire, the entire right, title, and interest to the invention and the
transfers and sets over to Assignee, and in and to the Invention and the Application for or granted therefor in the United State Invention claiming priority or benefit of the the right to sue for and collect the same for orderity or benefit, and the Commissionerespective foreign patent laws to issue passignee, as assignee of the entire interest of the communicate the same for the communicate the same for the communicate in the control of the communicate in the communicate in the control of the communicate in the control of the control	Assignee hereby accepts, the entire in and all original, divisional, continuates of America and all other countries of explication pursuant to any law or the or its own use and the use of its succept of Patents and Trademarks and to attents are hereby authorized and reset therein; and the Assigner does he mustion-in-part, reissue and other apploant to Assignee or its representatives alligal proceedings in which the Application to do generally everything necessuratives, the expenses incident to said attorneys of Assignee and their assignee all of my right, title and interest lisclosed thereto in all countries of the world. 3 (c), "[a] person may not execute a	adequacy of which are hereby acknowledged, Assignor hereby sells, assigns, right, title and interest, for the United States of America and all other countries, tion, continuation-in-part, substitute or reissue applications and patents applied for the Invention, including without limitation all applications and patents for the reaty, and including all claims for damages by reason of past infringement with essors, assigns and legal representatives, and including the right to claim such the Patent Office officials in foreign countries as are duly authorized by the equested to issue all patents on said improvements or resulting therefrom to preby agree and covenant without further remuneration, to execute and deliver applications for Letters Patent on the Invention and all assignments thereof to facts known to the undersigned respecting the Invention, whenever requested, also and any related applications or patents may become Involved, to sign all sary to aid Assignee, its successors, assigns and nominees to obtain patent applications to be borne and paid by Assignee. In United States Provisional Application No. 62/276,456 filed January 8, 2016 the world including the right to claim priority or benefit of the Provisional(s) an oath or declaration unless the person has reviewed and understands the set to the Office all information known to be material to patentability as defined
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All to the		ASSIGNEE
By HOCK & Jellaca	<u> 18-</u>	8y:
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Date: // JANUARN 2017 STATE OF NJ)		Date: 15 39-57 ory
COUNTY OF BERGEN): 55.		COUNTY OF Services
The person whose name is subscribed personally known to me or has proved if		The person whose name is subscribed to the accompanying instrument is personally known to me or has proved his/her identity to me on the basis of
satisfactory evidence. On	11,2017	satisfactory evidence. On <u>43 TON 2017</u> .
accompanying instrument and knows th	e contents thereof, and that he/she	he/she appeared before me and acknowledged that he/she has read the accompanying instrument and knows the contents thereof, and that he/she
executed the same as their free act and de he/she is acting on behalf of an entity, it		executed the same as their free act and deed for the purposes set forth therein. If he/she is acting on behalf of an entity, he/she also acknowledged that he/she
executed the accompanying instrument in I his/her signature on the instrument, the equi	ty executed the same:	executed the accompanying instrument in his/her authorized capacity, and that by his/her signature on the instaument, the entity executed the same.
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COMBINED DECLARATION AND ASSIGNMENT FOR UTILITY OR DESIGN APPLICATION (37 CFR 1.63) USING AN APPLICATION DATA SHEET

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Attorney, Docket No.	SPINE 3.0F-614		0000
Title of the Invention ("Invention")	IAP MARKER		
Legal Name of Inventor/Assignor ("Inventor/Assignor")	Steven Krause		
Assignee ("Assignee")	Delaware, having its principal place of America, acting in its capacity a limited partnership established under	LC, limited liability company incorporated under the laws of the State of business at 2825 Airview Boulevard, Kalamazoo, MI 49002, United State as sole general partner of STRYKER EUROPEAN TECHNOLOGIES C.V., der the laws of the Netherlands ("commanditaire vennootschap"), having it 22 Victoria Street, Hamilton, HM 12, Bermuda.	es
As named inventor, I hereby declare that	<u>DECLAS</u>	<u>RATION</u>	
(i) this declaration is directed to:	•		
The attached Applic	cation		
	cation Number or PCT International A	Application Number 15/399,837	
filed onJanuary	6, 2017		
	n is/was made or authorized to be mad itor or an original joint inventor of a cla	ide by me; aimed invention in the above-identified Application; and	
(iv) I hereby acknowledge that any	- -	declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of n	ot
more than five (5) years, or both. WHEREAS, Assignor wishes to ass	eian to Acciance and Acciance wis:	shes to acquire, the entire right, title, and interest to the Invention and the	ha
Application;			
transfers and sets over to Assignee, and in and to the Invention and the Applicatio for or granted therefor in the United State Invention claiming priority or benefit of the the right to sue for and collect the same for priority or benefit, and the Commissione respective foreign patent laws to issue passignee, as assignee of the entire internall original, divisional, continuation, continuation, continuation, continuation, and testify in any interferences or other leglawful papers, make all rightful oaths, and	Assignee hereby accepts, the entire r n and all original, divisional, continuation of America and all other countries to application pursuant to any law or troor its own use and the use of its succept of Patents and Trademarks and the catents are hereby authorized and reset therein; and the Assignor does he inuation-in-part, reissue and other apto Assignee or its representatives all figal proceedings in which the Application to do generally everything necessi	If adequacy of which are hereby acknowledged, Assignor hereby sells, assign right, title and interest, for the United States of America and all other countries atton, continuation-in-part, substitute or reissue applications and patents applic for the Invention, including without limitation all applications and patents for the treaty, and including all claims for damages by reason of past infringement with the Patent Office officials in foreign countries as are duly authorized by the quested to issue all patents on said improvements or resulting therefrom are by agree and covenant without further remuneration, to execute and deliving polications for Letters Patent on the Invention and all assignments thereof facts known to the undersigned respecting the Invention, whenever requested ation and any related applications or patents may become involved, to sign a sary to aid Assignee, its successors, assigns and nominees to obtain pated applications to be borne and paid by Assignee.	ed he ith ch to er to all
	•	gns to insert on this Assignment the filling date and application number of sa	aid
	lisclosed thereto in all countries of t	t in United States Provisional Application No. <u>62/276.456</u> filed <u>January 8, 20</u> the world including the right to claim priority or benefit of the Provisional(
WARNING: According to 37 C.F.R. 1.6 contents of the application, including claim in 1.56."	.3 (c), "[a] person may not execute a ms and is aware of the duty to disclos	an oath or declaration unless the person has reviewed and understands these to the Office all information known to be material to patentability as define	he ed
ASSIGNOR		ASSIGNEE	
By: Hallan		84:	
Printed: Steven Krau		Printed: Robart J. Lonnard	
	**	Title: ID Agonf	
Date: <u>June 27</u> 20) 17	Date:	
STATE OF)		STATE OF () : ss.	
COUNTY OF) : ss.		COUNTY OF REALISM The person whose hame is subscribed to the accompanying instrument is	
The person whose name is subscribed personally known to me or has proved	his/her identity to me on the basis of	personally known to me or has proved his/her identity to me on the basis of	
satisfactory evidence. On		satisfactory evidence. On he/she appeared before me and acknowledged that he/she has read the	
accompanying instrument and knows the executed the same as their free act and do		accompanying instrument and knows the contents thereof, and that he/she executed the same as their free act and deed for the purposes set forth therein. If	
he/she is acting on behalf of an entity, executed the accompanying instrument in-	he/she also auknowledged that he/she	he/she is acting on behalf of an entity, he/she also acknowledged that he/she executed the accompanying instrument in his/her authorized capacity, and that by	
his/her signature on the instrument, the ent	ity executed the same.	his/her signature on the instrument, the entity executed the same.	
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PATENT REEL: 043064 FRAME: 0796

COMBINED DECLARATION AND ASSIGNMENT FOR UTILITY OR DESIGN APPLICATION (37 CFR 1.63) USING AN APPLICATION DATA SHEET

	***************************************		**********
Attorney, Docket No.	<u>SPINE 3.0F-614</u>		00000000
Title of the Invention ("Invention")	TAP MARKER		
Legal Name of Inventor/Assignor ("Inventor/Assignor")	Abram Reitblat		
Assignee ("Assignee")	Delaware, having its principal place of America, acting in its capacity a limited partnership established and	<u>LC</u> , limited liability company incorporated under the laws of the State of business at 2825 Airview Boulevard, Kalamazoo, MI 49002, United States sole general partner of STRYKER EUROPEAN TECHNOLOGIES C. der the laws of the Netherlands ("commanditaire vennootschap"), having 22 Victoria Street, Hamilton, HM 12, Bermuda.	tates V a
As named inventor, I hereby declare that:	~~~~~~	RATION	
(i) this declaration is directed to: The attached Applic			
OR			
United States Applied on January	cation Number or PCT International A 6, 2017	Application Number 15/399,837	
(ii) the above-identified Application (iii) I believe I am the original inven	n is/was made or authorized to be made or an original joint inventor of a cla	ade by me; laimed invention in the above-identified Application; and	
(iv) I hereby acknowledge that any		declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment or	of not
more than five (5) years, or both. WHEREAS, Assignor wishes to ass Application;	sign to Assignee, and Assignee wis	shes to acquire, the entire right, title, and interest to the Invention and	the t
NOW, THEREFORE, for good and vatransfers and sets over to Assignee, and in and to the Invention and the Application for or granted therefor in the United State Invention claiming priority or benefit of the the right to sue for and collect the same for priority or benefit, and the Commissioner espective foreign patent laws to issue passignee, as assignee of the entire intereall original, divisional, continuation, contin	Assignee hereby accepts, the entire ran and all original, divisional, continuates of America and all other countries for Application pursuant to any law or the profession of Patents and Trademarks and the use of its succept of Patents and Trademarks and the attents are hereby authorized and reset therein; and the Assignor does he nuation-in-part, reissue and other application and the Application of Assignee and their assignation of the Application of the Application of Assignee and their assignation of the Application of the Application of the Application of Assignee and their assignation of the Application	d adequacy of which are hereby acknowledged, Assignor hereby sells, assigning the property of the United States of America and all other countrition, continuation-in-part, substitute or reissue applications and patents application, including without limitation all applications and patents for the Invention, including without limitation all applications and patents for the Invention, including without limitation all applications and patents for the Invention and legal representatives, and including the right to claim a the Patent Office officials in foreign countries as are duly authorized by equested to issue all patents on said improvements or resulting therefore equested to issue all patents on said improvements or resulting therefore expelications for Letters Patent on the Invention and all assignments therefacts known to the undersigned respecting the Invention, whenever requestion and any related applications or patents may become involved, to signary to aid Assignee, its successors, assigns and nominees to obtain path applications to be borne and paid by Assignee. The provisional Application No. 62/276.456 filed January 8, 2 to Insert on this Assignment the filing date and application number of the United States Provisional Application No. 62/276.456 filed January 8, 2 to Insert on the Invention No. 62/276.456 filed January 8, 2 to Insert on the Invention No. 62/276.456 filed January 8, 2 to Insert on the Invention No. 62/276.456 filed January 8, 2 to	tries, plied or the with such y the winto eliver of to sted, an all atent
pursuant to any law or treaty in the countr WARNING: According to 37 C.F.R. 1.6	ies of the world. 3 (c), "[a] person may not execute a	the world including the right to claim priority or benefit of the Provision an oath or declaration unless the person has reviewed and understands	s the
contents of the application, including clair in 1.56."	ns and is aware of the duty to disclos	se to the Office all information known to be material to patentability as def	ined
Title: STATOR PROVIDED STATE OF STATE O	his/her identity to me on the basis of the b	Printed: Date: STATE OF The person whose name is subscribed to the accompanying instrument is personally known to me or has proved his/her identity to me on the basis or satisfactory evidence. On	of e
NOTARY PUBLIC	ed for the purposes set forth therein. If ne/she also acknowledged that he/she his/her authorized capacity, and that by	accompanying instrument and knows the contents thereof, and that he/she executed the same as their free act and deed for the purposes set forth therein. In he/she is acting on behalf of an entity, he/she also acknowledged that he/she executed the accompanying instrument in his/her authorized capacity, and that by his/her signature on the instrument, the entity executed the same. NOTARY PROCE. Residing at AMALE COLUMN	lf e
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RECORDED: 07/21/2017

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