PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT6957686

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
STEVEN F. KRAUSE	12/09/2019
SPENCER POPEJOY	10/01/2021
HEESANG SAMUEL LEE	08/01/2020
DOUGLAS G. PEDRICK	08/03/2020
NATHANIEL G. MAGEE	04/23/2021

RECEIVING PARTY DATA

Name:	STRYKER EUROPEAN OPERATIONS LIMITED
Street Address:	ANNGROVE, IDA BUSINESS & TECHNOLOGY PARK
Internal Address:	COUNTY CORK
City:	CARRIGTWOHILL
State/Country:	IRELAND
Postal Code:	T45HX08

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	16681069

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) 654-5000

Email: assignment@lernerdavid.com

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

Address Line 1: 20 COMMERCE DR.

Address Line 4: CRANFORD, NEW JERSEY 07016

ATTORNEY DOCKET NUMBER:	SPINE 3.0F-667	
NAME OF SUBMITTER:	KATHLEEN REYNOLDS	
SIGNATURE:	/Kathleen Reynolds/	
DATE SIGNED: 10/07/2021		

Total Attachments: 5

PATENT REEL: 057730 FRAME: 0610



PATENT REEL: 057730 FRAME: 0611

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-667
Title of the Invention ("Invention")	Probes For Surgical Access System
Legal Name of Inventor ("Inventor")	Steven F. Krause
Assignee ("Assignee")	Stryker European Operations Limited, incorporated in Carrigtwohill, Ireland, and having a place of business at
• • • •	Anngrove, IDA Business & Technology Park; County Cork; Carrigtwohill T45HX08; Cork; IRELAND
	DECLARATION
As named inventor, I hereby declare the	eat:
This declaration is directed to: The attached App OR	
	plication Number or PCT International Application Number <u>16/681,069</u> mber 12, 2019 .
that I hereby acknowledge that any will more than five (5) years, or both.	Iful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not
	ASSIGNMENT
	LARATION, WHEREAS the Assignee is desirous of acquiring, or has acquired and is desirous of memorializing right, title and interest in the above-identified Application.
patents applied for or granted therefor and patents for the Invention claiming plot the Protection of Intellectual Properbenefit from the priority of such applicate same for its own use and the use of the Commissioner of Patents and Tradem laws to issue patents are hereby author the entire interest therein; and the Assicontinuation, continuation-in-part, reis assigns, to communicate to Assignee in any interferences or other legal protection for said improvements in allemy attorneys to insert on this deed the I, as assignor, hereby assign to a 62/760,429, filed November 13, claim priority or benefit of said Apole	the Application and all original, divisional, continuation, continuation-in-part, substitute or reissue applications and in the United States of America and all other countries for the Invention, including without limitation all applications within the United States of America and all other countries for the Invention, including without limitation all applications within the part of the Application pursuant to any law or treaty, and all rights under any International Conventions my, including the Paris Convention and the European Patent Convention and the corresponding rights to claim this and including all claims for damages by reason of past infringement with the right to sue for and collect the successors, assigns and legal representatives, and including the right to claim such priority or benefit, and the successors, assigns and legal representatives, and including the right to claim such priority or benefit, and the larks and the Patent Office officials in foreign countries as are duly authorized by the respective foreign patent rized and requested to issue all patents on said improvements or resulting therefrom to Assignee, as assignee of gnor does hereby agree and covenant without further remuneration, to execute and deliver all original, divisional, sue and other applications for Letters Patent on the Invention and all assignments thereof to Assignee or its or its representatives all facts known to the undersigned respecting the Invention, whenever requested, to testify the dotter applications for patents may become involved, to sign all lawful to do generally everything necessary to aid Assignee, its successors, assigns and nominees to obtain patent countries, the expenses incident to said applications to be borne and paid by Assignee. And I do hereby authorize filing date and application number of said application when known. Baid assignee all of my right, title and interest in United States Provisional Application No. 62/760,429 pursuant to any law or treaty in the countries of the world.
· <u>12-9-2019</u>	
application, including claims and is aware State of <u>New Jersey</u> County of <u>Morris</u> On this <u>9th</u> of <u>December 2</u> the individual who executed the f) .019before me personally came above-named Steven F. Krause, to me personally known as oregoing instrument, who acknowledged to me that the same was executed by him/her of
his/her gwn free will for the purpo watery Public Bear ele Netary Public	

An Application Data Sheet (PTO/SB/14 or Equivalent) naming the entire inventiveness entity must accompany this form unless previously submitted.

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

	AN AI	PLICATION DATA SHEET	***************************************
Attorney, Docket No.	SPINE 3.0F-667		
Title of the Invention ("Invention")	Probes For Surgica	I Access System	
Legal Name of Inventor ("Inventor")	Spencer Popejoy	·	
Assignee ("Assignee")		erations Limited, incorporated in Carrigtvess & Technology Park; County Cork; Ca	vohill, frefand, and having a place of business at rrigtwohill T45HX08; Cork; IRELAND
		DECLARATION	
As named inventor, I hereby declare the This declaration is directed to: The attached Apploa	ication lication Number or PC	T International Application Number	16/681,069
		de in this declaration is punishable un	der 18 U.S.C. 1001 by fine or imprisonment of not
		ASSIGNMENT	
IN ADDITION TO MAKING THIS DECL its acquisition further herein, my entire to			g, or has acquired and is desirous of memorializing
countries, in and to the Invention and the patents applied for or granted therefor in and patents for the Invention claiming profession of the Protection of Intellectual Proper benefit from the priority of such applicate same for its own use and the use of its Commissioner of Patents and Trademic laws to issue patents are hereby author the entire interest therein; and the Assignontinuation, continuation-in-part, reiss assigns, to communicate to Assignee of in any interferences or other legal procepapers, make all rightful oaths, and to protection for said improvements in all of my attorneys to insert on this deed the standard assignor, hereby assign to si	e Application and all of the United States of A tority or benefit of the Aty, including the Paris ions and including all successors, assigns atks and the Patent O tized and requested to pror does hereby agreue and other applicate its representatives a bedings in which the A do generally everythountries, the expenses filling date and applicated assignee all of a total assignee all of a total assignee all of a total and in the invented to the united assignee all of a total and and in the invented to the united assignee all of a total assignee.	riginal, divisional, continuation, continuation, divisional, continuation, continuation, and all other countries for the lapplication pursuant to any law or treat. Convention and the European Paten claims for damages by reason of past and legal representatives, and includir ffice officials in foreign countries as a issue all patents on said improvement e and covenant without further remunerions for Letters Patent on the Inventil facts known to the undersigned respipplication and any related applications ing necessary to aid Assignee, its selection number of said applications to be bortion number of said application when known the interest in Unit ention disclosed thereto in all co	ed States Provisional Application No. untries of the world including the right to
ASSIGNOR	grappinal spector horses	ASSIGNEE	gyppode von a loos.
By: /sun /sysy	Estimate 1	By: //Tool F. Milleto/	Stock Stock of Stock Sto
Printed: Spencer Popejoy	***************************************	Printed: Joel F. Millets	
Title: R&D Staff Engineer Date: 2021-10-01		Title: IP Agent Date: 01 October 2021	

WITNESS	apagaanaaly shanaa hii ikabbay	WITNESS	Specimen source was
Ву: ****	\$0000 90000 1 000000 6N shootoo 5000 500 1, 0001 1200 601	Ву: Минсы	Security Lagranger appeared Security Lagranger appeared Security Lagranger appeared
Printed: Ashley Salerno		Printed: Ashley Salerno	
Title: IP Specialist, Operations		Title: IP Specialist, Operations	
Date: 01 Oct 2021		Date: 01 Oct 2021	

REEL: 057730 FRAME: 0613

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

Attorney, Docket No.	SPINE 3.0F-667
Title of the Invention ("Invention")	Probes For Surgical Access System
Legal Name of Inventor ("Inventor")	Heesang Samuel Lee
(inventor) Assignee ("Assignee")	Stryker European Operations Limited, incorporated in Carrigtwohill, Ireland, and having a place of business at
and Control of the Co	Anngrove, IDA Business & Technology Park; County Cork; Čarrigtwohill T45HX08; Cork; IRELAND
	DECLARATION
As named inventor, I hereby declare that	K.
This declaration is directed to: The attached Appli	ication
OR	
x United States Appl filed on <u>Noven</u>	ication Number or PCT International Application Number <u>16/681,069</u> hber 12, 2019
that I hereby acknowledge that any willfi more than five (5) years, or both.	ul false statement made in this declaration is punishable under 18 U.S.C, 1001 by fine or imprisonment of not
	ASSIGNMENT
IN ADDITION TO MAKING THIS DECL its acquisition further herein, my entire r	ARATION, WHEREAS the Assignee is desirous of acquiring, or has acquired and is desirous of memorializing ight, title and interest in the above-identified Application.
patents applied for or granted therefor in and patents for the Invention claiming pri for the Protection of Intellectual Propert benefit from the priority of such applicati same for its own use and the use of its Commissioner of Patents and Tradema aws to issue patents are hereby authori he entire interest therein; and the Assig continuation, continuation-in-part, reisso assigns, to communicate to Assignee or n any interferences or other legal proce capers, make all rightful oaths, and to corotection for said improvements in all comy attorneys to insert on this deed the fi	e Application and all original, divisional, continuation, continuation-in-part, substitute or reissue applications and the United States of America and all other countries for the Invention, including without ilmitation all applications for the United States of America and all other countries for the Invention, including without ilmitation all applications (originally or benefit of the Application pursuant to any law or treaty, and all rights under any International Conventions y, including the Paris Convention and the European Patent Convention and the corresponding rights to claim ions and including all claims for damages by reason of past infringement with the right to sue for and collect the successors, assigns and legal representatives, and including the right to claim such priority or benefit, and the ricks and the Patent Office officials in foreign countries as are duly authorized by the respective foreign patent and requested to issue all patents on said improvements or resulting therefrom to Assignee, as assignee of or does hereby agree and covenant without further remuneration, to execute and deliver all original, divisional use and other applications for Letters Patent on the Invention and all assignments thereof to Assignee or its its representatives all facts known to the undersigned respecting the invention, whenever requested, to testify edings in which the Application and any related applications or patents may become involved, to sign all lawful do generally everything necessary to aid Assignee, its successors, assigns and nominees to obtain patent ountries, the expenses incident to said applications to be borne and paid by Assignee. And I do hereby authorize thing date and application number of said application when known.
32/760,429, filed November 13, 20	aid assignee all of my right, title and interest in United States Provisional Application No. 118, and in the invention disclosed thereto in all countries of the world including the right to blication No. 62/760,429 pursuant to any law or treaty in the countries of the world.
/- Ay/- 2020 (Date)	
→ (Date)	Heesang Samuel Lee
application, including claims and is aware o	WARNING I may not execute an oath or declaration unless the person has reviewed and understands the contents of the of the outy to disclose to the Office all information known to be material to patentability as defined in 1.56."
State of New Jersey	_) SS:
State of <u>New Jersey</u> County of <u>Bergen</u>)	
On thisof	Defore me personally came above-named Heesang Samuel Lee, to me personally known foregoing instrument, who acknowledged to me that the same was executed by him/her of es therein set forth.
Notary Public	CHIVON MOON Notary Public - State of New Jersey My Commission Expres Sec 21, 2022

An Application Data Sheet (PTO/SB/14 or Equivalent) naming the entire inventiveness entity partengraphy this form unless previously submitted.

REEL: 057730 FRAME: 0614

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

Attorney, Docket No.	SPINE 3.0F-667
Title of the Invention ("Invention")	Probes For Surgical Access System
Legal Name of Inventor	Develop O Postal
("Inventor") Assignee ("Assignee")	Douglas G. Pedrick Stryker European Operations Limited, incorporated in Carrigtwohill, Ireland, and having a place of business at
ridaignos (ridaignos)	Anngrove, IDA Business & Technology Park; County Cork; Carrigtwohilli T45HXU8; Cork; IRELAND
	DECLARATION
As named inventor, I hereby declare the	xE:
This declaration is directed to:	Y as :
The attached Appl	
OR x United States App filed on <u>Nover</u>	lication Number or PCT International Application Number 16/681,069
that I hereby acknowledge that any will more than five (5) years, or both.	ul false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not-
	ASSIGNMENT
	ARATION, WHEREAS the Assignee is desirous of acquiring, or has acquired and is desirous of memorializing ight, title and interest in the above-identified Application.
countries, in and to the Invention and the patents applied for or granted therefor in and patents for the Invention claiming properties. Protection of Intellectual Proper benefit from the priority of such applications same for its own use and the use of its Commissioner of Patents and Trademalaws to issue patents are hereby author the entire interest therein; and the Assign continuation, continuation-in-part, reiss assigns, to communicate to Assignee of in any interferences or other legal procepapers, make all rightful ouths, and to protection for said improvements in all or my attorneys to insert on this deed the interest as and to the protection of the protection of the protection of the patents.	Assignee hereby accepts, the entire right, title and interest, for the United States of America and all othe e Application and all original, divisional, continuation, continuation-in-part, substitute or reissue applications and the United States of America and all other countries for the Invention, including without limitation all applications for the United States of America and all other countries for the Invention, including without limitation all applications for the United States of America and all other countries for the Invention, and the corresponding rights to claim to be part of the Paris Convention and the European Patent Convention and the corresponding rights to claim including the right to sue for and collect the successors, assigns and legal representatives, and including the right to claim such priority or benefit, and the rich expects the Patent Office officials in foreign countries as are duly authorized by the respective foreign patentized and requested to issue all patents on said improvements or resulting therefrom to Assignce, as assignee or nor does hereby agree and covenant without further remuneration, to execute and deliver all original, divisional use and other applications for Letters Patent on the Invention and all assignments thereof to Assignee or its representatives all facts known to the undersigned respecting the Invention, whenever requested, to testify redings in which the Application and any related applications or patents may become involved, to sign all lawfur do generally everything necessary to aid Assignee, its successors, assigns and nominees to obtain patent ountries, the expenses incident to said applications to be borne and paid by Assignee. And I do hereby authorize illing date and application number of said application when known.
I, as assignor, hereby assign to si 62/760 429, filed November 13, 2	aid assignee all of my right, title and interest in United States Provisional Application No. 018, and in the invention disclosed thereto in all countries of the world including the right to
	plication No. 62/760.429 pursuant to any law or treatly in the countries of the world.
8-3-200	Donald D Colman
(Date)	Douglas G. Pedrick
	WARNING
According to 37 C.F.R. 1.63 (c), "[a] perso application, including claims and is aware	n may not execute an path or declaration unless the person has reviewed and understands the contents of the of the duty to disclose to the Office all information known to be material to patentability as defined in 1.56."
State of Klew York	_) SS:
County of Orange)	
	$\underline{\mathcal{Q}}$ before me personally came above-named Douglas G. Pedrick, to me personally known as regoing instrument, who acknowledged to me that the same was executed by him/her of
his/her/own free will for the purpo	
Millouter	Notary Public - State of New York NO. 018A6Z10466
Notary Public	Qualified in Orange County My Commission Expires Aug 17, 2021

An Application Data Sheet (PTO/SB/14 or Equivalent) naming the entire inventiveness entity must accompany this form unless previously submitted.

REEL: 057730 FRAME: 0615

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-867	
Title of the Invention ("Invention")	Probes For Surgical Access System	
Legal Name of Inventor ("Inventor")	Nathaniel G. Magee	
Assignee ("Assignee")	Stryker European Operations Limited, incorporated in Carrigtwohill, Ireland, and having a place of business at	
	Anngrove, IDA Business & Technology Park; County Cork; Carrigtwohill T45HX08; Cork; IRELAND	
And a contract to contract to the contract of a state of the	DECLARATION	
As named inventor, I hereby declare the This declaration is directed to:		
This declaration is directed to: The attached Application		
OR	2-4-4-1-2-1-4-1-4-1-4-1-4-1-4-1-4-1-4-1-	
[X] United States App filed on <u>Nover</u>	ilication Number or PCT International Application Number 16/681,069 nber 12, 2019	
that I hereby acknowledge that any will more than five (5) years, or both.	ful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not	
	ASSIGNMENT	
	ARATION, WHEREAS the Assignee is desirous of acquiring, or has acquired and is desirous of memorializing right, title and interest in the above-identified 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 herether hereiton, including without limitation all applications and patents to the Invention claiming priority or benefit of the Application pursuant to any law or freaty, and all rights under any international Conventions for the Protection of Intellectual Property, including the Paris Convention and the European Patent Convention and the corresponding rights to claim benefit from the priority of such applications and including all claims for damages by reason of past intringement 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 or the entire interest themsing; and the Assignor dose hereby agree and coverant 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 representatives all facis known to the undersigned respecting the Invention, whenever requested, to testify he any interferences or other legal proceedings in which the Application and any related applications or pa		
	WARNING	
application, including claims and is aware	on may not execute an cath or declaration unless the person has reviewed and understands the contents of the of the duty to disclose to the Office all information known to be material to patentability as defined in 1.56.	
State of Georgia	_) SS:	
County of FVI to N	LINE SOON EN ALLE	
County of 10 10 10 10 10 10 10 10 10 10 10 10 10		
his/her own free will-for the purposes therein set forth.		
Dunielle Valorine Editament 65		
Notary Public	W.COUNTAIN	

An Application Data Sheet (PTO/SB/14 or Equivalent) naming the entire inventiveness entity must accompany this form unless previously submitted.

PATENT REEL: 057730 FRAME: 0616

RECORDED: 10/07/2021