PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT7490295

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
CHESTER O. BAXTER III	07/29/2022
RICHARD L. LEIMBACH	07/29/2022
MICHAEL J. STOKES	07/29/2022
CORY G. KIMBALL	08/08/2022
TAYLOR W. ARONHALT	08/01/2022
MATTHEW S. CORBIN	07/29/2022
PIERRE R. MESNIL	08/16/2022
NICHOLAS J. ROSS	07/29/2022
SHANE R. ADAMS	08/09/2022

RECEIVING PARTY DATA

Name:	CILAG GMBH INTERNATIONAL
Street Address:	GUBELSTRASSE 34
City:	ZUG
State/Country:	SWITZERLAND
Postal Code:	6300

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	16846308

CORRESPONDENCE DATA

Fax Number: (412)355-6501

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: 4123558334

Email: piuspatents@klgates.com **Correspondent Name:** CAMERON P. THORNTON

Address Line 1: 210 SIXTH AVENUE Address Line 2: **K&L GATES CENTER**

Address Line 4: PITTSBURGH, PENNSYLVANIA 15222-2613

ATTORNEY DOCKET NUMBER:	END9169USNP5/190177-5
NAME OF SUBMITTER:	/CAMERON P. THORNTON/

SIGNATURE:	/Cameron P. Thornton/
DATE SIGNED:	08/17/2022
	This document serves as an Oath/Declaration (37 CFR 1.63).

Total Attachments: 18

source=END9169USNP5 190177-5 ComboDecAsn Baxter-to-Cilag GmbH International SIGNED#page1.tif source=END9169USNP5 190177-5 ComboDecAsn Baxter-to-Cilag GmbH International SIGNED#page2.tif source=END9169USNP5 190177-5 ComboDecAsn Leimbach-to-Cilag GmbH International SIGNED#page1.tif source=END9169USNP5 190177-5 ComboDecAsn Leimbach-to-Cilag GmbH International SIGNED#page2.tif source=END9169USNP5 190177-5 ComboDecAsn Stokes-to-Cilag GmbH International SIGNED#page1.tif source=END9169USNP5 190177-5 ComboDecAsn Stokes-to-Cilag GmbH International SIGNED#page2.tif source=END9169USNP5_190177-5_ComboDecAsn_Kimball-to-Cilag_GmbH_International_SIGNED#page1.tif source=END9169USNP5_190177-5_ComboDecAsn_Kimball-to-Cilag_GmbH_International_SIGNED#page2.tif source=END9169USNP5 190177-5 ComboDecAsn Aronhalt-to-Cilag GmbH International SIGNED#page1.tif source=END9169USNP5 190177-5 ComboDecAsn Aronhalt-to-Cilag GmbH International SIGNED#page2.tif source=END9169USNP5_190177-5_ComboDecAsn_Corbin-to-Cilag_GmbH_International_SIGNED#page1.tif source=END9169USNP5 190177-5 ComboDecAsn Corbin-to-Cilag GmbH International SIGNED#page2.tif source=END9169USNP5 190177-5 ComboDecAsn Mesnil-to-Cilag GmbH International SIGNED-in-ink#page1.ti source=END9169USNP5 190177-5 ComboDecAsn Mesnil-to-Cilag GmbH International SIGNED-in-ink#page2.ti source=END9169USNP5 190177-5 ComboDecAsn Ross-to-Cilag GmbH International SIGNED#page1.tif source=END9169USNP5 190177-5 ComboDecAsn Ross-to-Cilag GmbH International SIGNED#page2.tif source=END9169USNP5_190177-5_ComboDecAsn_Adams-to-Cilag_GmbH_International_SIGNED#page1.tif source=END9169USNP5 190177-5 ComboDecAsn Adams-to-Cilag GmbH International SIGNED#page2.tif

Attorney Docket No.: END9169USNP5/190177-5
US Application No.: 16/846 308

	US Application No.: <u>10/840,308</u>
COMBINE	D DECLARATION AND ASSIGNMENT
Title of Invention: ARTICULATION CONT	ROL MAPPING FOR A SURGICAL INSTRUMENT
This declaration and assignment is directed to:	
	The attached or filed herewith application of (list of named inventors),
or	
	The United States application or PCT international application number <u>16/846,308</u> filed on <u>April 11, 2020</u> .
Declaration	
As the below named inventor, I hereby de	eclare that:
The above-identified application ("Application ("Applicati	cation") was made or authorized by me.
I believe that I am the original inventor or	r an original inventor of a claimed invention or discovery in the Application.
	tents of the Application, including the claims, and I acknowledge the duty to disclose defined in Title 37, the United States Code of Federal Regulations, §1.56 for filings of
	lse statement made in this declaration is punishable under 18 U.S.C. § 1001 by fine or oth for filings of this Application in the United States of America.
Assignment	Cilag GmbH International Gubelstrasse 34 6300 Zug Switzerland
A corpo	oration of the state or country of <u>Switzerland</u>
(he	ereinafter designated as the "Assignee"),
	ed the above-identified invention by previous assignment (attached hereto) to Assignee US Patent Office and I confirm I have and do assign and transfer:
or	
For good and valuable consideration, the assigned and transferred to Assignee, such assignment	he sufficiency of which is acknowledged, I hereby assign and transfer and/or have nent being made effective as of April 30, 2019:
the right to claim priority to the Application, all in States, European Patent Office and of all other c such inventions or discoveries and all rights in continuations thereof, and to all Letters Patent the supplementary protection certificates, reexamination	r the Application, including all priority rights for other countries arising therefrom and any anticolor of discoveries therein disclosed, and any and all Letters Patent of the United ountries, which may be granted for such inventions or discoveries, or any of them, all a such Application including any and all provisionals, substitutions, divisions, and that may be granted for said inventions and discoveries, and in and to all extensions, ons, renewals, and reissues thereof, to be held and enjoyed by Assignee for its own uses for which such Letters Patent may be granted, as fully and entirely as the same would ment and sale not been made.
313102694.1	Page 1 of 2
3 13 10ZU34. I	

US Application No.: <u>16/846,308</u>

I shall execute all papers necessary in connection with the Application in the United States Patent and Trademark Office, European Patent Office, any other patent offices, and under the Patent Cooperation Treaty, and any continuing, divisional, or reissue applications thereof, any reexamination of any of such applications, and any patent term extensions or supplementary protection certificates of any such applications and also to execute separate assignments in connection with such applications as the Assignee may deem necessary or expedient.

I shall execute all papers necessary in connection with any litigation or any other judicial proceeding in the United States or other country, or any administrative proceeding in the United States Patent and Trademark Office, European Patent Office, any other patent office, or under the Patent Cooperation Treaty concerning the Application(s) or any continuation, divisional, or reissue applications thereof, or any reexamination of any such applications, or any Letters Patent issued therefrom or any patent term extensions or supplementary protection certificates of any such applications and to cooperate with the Assignee in every way possible in obtaining evidence and going forward with such litigation or proceeding.

I shall execute all papers and documents and perform any act which may be necessary in connection with claims or provisions of the International Convention for Protection of Industrial Property or similar agreements.

I shall do all other acts which, in the opinion of Assignee, may be necessary or desirable to secure the grant of Letters Patent to Assignee or its nominees, in the United States, by the European Patent Office and in all other countries where Assignee may desire to have such inventions or discoveries, or any of them, patented, with specifications and claims in such form as shall be approved by Assignee and to vest and confirm in Assignee or its nominees the full and complete legal and equitable title to all such Letters Patent.

I hereby (i) authorize and request the Commissioner of Patents to issue any and all Letters Patent of the United States resulting from the Application or any divisional, continuation, or reissue applications thereof, and any reexamination of any of such applications, to Assignee, and (ii) covenant that I have full right to convey the interest herein assigned, and that I have not executed, and will not execute, any agreement in conflict herewith.

I hereby grant the attorney of record the power to insert on this assignment any further identification which may be necessary or desirable in order to obtain legal recordation of this document.

Uuster O. Baxter, III	7/29/2022	
Chester O. Baxter, III	Date	

Page 2 of 2

313102694.1

Attorney Docket No.: END9169USNP5/190177-5
US Application No.: 16/846 308

	US Application No.: <u>10/840,308</u>
COMBINEI	D DECLARATION AND ASSIGNMENT
Title of Invention: ARTICULATION CONT	ROL MAPPING FOR A SURGICAL INSTRUMENT
This declaration and assignment is directed to:	
	The attached or filed herewith application of (list of named inventors),
or	
	The United States application or PCT international application number 16/846,308 filed on April 11, 2020.
Declaration	
As the below named inventor, I hereby de	clare that:
The above-identified application ("Applic	ration") was made or authorized by me.
I believe that I am the original inventor or	an original inventor of a claimed invention or discovery in the Application.
	tents of the Application, including the claims, and I acknowledge the duty to disclose lefined in Title 37, the United States Code of Federal Regulations, §1.56 for filings of
	lse statement made in this declaration is punishable under 18 U.S.C. § 1001 by fine or oth for filings of this Application in the United States of America.
Assignment	Cilag GmbH International Gubelstrasse 34 6300 Zug Switzerland
A corpo	pration of the state or country of <u>Switzerland</u>
(he	ereinafter designated as the "Assignee"),
<u> </u>	ed the above-identified invention by previous assignment (attached hereto) to Assignee US Patent Office and I confirm I have and do assign and transfer:
or	
For good and valuable consideration, the assigned and transferred to Assignee, such assignment	ne sufficiency of which is acknowledged, I hereby assign and transfer and/or have nent being made effective as of April 30, 2019:
the right to claim priority to the Application, all in States, European Patent Office and of all other countings of discoveries and all rights in continuations thereof, and to all Letters Patent the supplementary protection certificates, reexamination	the Application, including all priority rights for other countries arising therefrom and aventions or discoveries therein disclosed, and any and all Letters Patent of the United countries, which may be granted for such inventions or discoveries, or any of them, all a such Application including any and all provisionals, substitutions, divisions, and nat may be granted for said inventions and discoveries, and in and to all extensions, ons, renewals, and reissues thereof, to be held and enjoyed by Assignee for its own use for which such Letters Patent may be granted, as fully and entirely as the same would ment and sale not been made.
313102754.1	Page 1 of 2
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US Application No.: <u>16/846,308</u>

I shall execute all papers necessary in connection with the Application in the United States Patent and Trademark Office, European Patent Office, any other patent offices, and under the Patent Cooperation Treaty, and any continuing, divisional, or reissue applications thereof, any reexamination of any of such applications, and any patent term extensions or supplementary protection certificates of any such applications and also to execute separate assignments in connection with such applications as the Assignee may deem necessary or expedient.

I shall execute all papers necessary in connection with any litigation or any other judicial proceeding in the United States or other country, or any administrative proceeding in the United States Patent and Trademark Office, European Patent Office, any other patent office, or under the Patent Cooperation Treaty concerning the Application(s) or any continuation, divisional, or reissue applications thereof, or any reexamination of any such applications, or any Letters Patent issued therefrom or any patent term extensions or supplementary protection certificates of any such applications and to cooperate with the Assignee in every way possible in obtaining evidence and going forward with such litigation or proceeding.

I shall execute all papers and documents and perform any act which may be necessary in connection with claims or provisions of the International Convention for Protection of Industrial Property or similar agreements.

I shall do all other acts which, in the opinion of Assignee, may be necessary or desirable to secure the grant of Letters Patent to Assignee or its nominees, in the United States, by the European Patent Office and in all other countries where Assignee may desire to have such inventions or discoveries, or any of them, patented, with specifications and claims in such form as shall be approved by Assignee and to vest and confirm in Assignee or its nominees the full and complete legal and equitable title to all such Letters Patent.

I hereby (i) authorize and request the Commissioner of Patents to issue any and all Letters Patent of the United States resulting from the Application or any divisional, continuation, or reissue applications thereof, and any reexamination of any of such applications, to Assignee, and (ii) covenant that I have full right to convey the interest herein assigned, and that I have not executed, and will not execute, any agreement in conflict herewith.

I hereby grant the attorney of record the power to insert on this assignment any further identification which may be necessary or desirable in order to obtain legal recordation of this document.

/ Richard L. Leimbach	7/29/2022	
Richard L. Leimbach	Date	

Page 2 of 2

313102754.1

Attorney Docket No.: END9169USNP5/190177-5
US Application No.: 16/846,308

	25 Tippiledite 110 10/010,500
COMBINEI	D DECLARATION AND ASSIGNMENT
Title of Invention: <u>ARTICULATION CONTI</u>	ROL MAPPING FOR A SURGICAL INSTRUMENT
This declaration and assignment is directed to:	
	The attached or filed herewith application of (list of named inventors),
or	
\boxtimes	The United States application or PCT international application number 16/846,308 filed on April 11, 2020.
Declaration	
As the below named inventor, I hereby de	clare that:
The above-identified application ("Applic	ation") was made or authorized by me.
I believe that I am the original inventor or	an original inventor of a claimed invention or discovery in the Application.
	ents of the Application, including the claims, and I acknowledge the duty to disclose lefined in Title 37, the United States Code of Federal Regulations, §1.56 for filings of
	ise statement made in this declaration is punishable under 18 U.S.C. § 1001 by fine or oth for filings of this Application in the United States of America.
Assignment	Cilag GmbH International Gubelstrasse 34 6300 Zug Switzerland
A corpo	pration of the state or country of <u>Switzerland</u>
(he	ereinafter designated as the "Assignee"),
	d the above-identified invention by previous assignment (attached hereto) to Assignee US Patent Office and I confirm I have and do assign and transfer:
or	
For good and valuable consideration, the assigned and transferred to Assignee, such assignment	ne sufficiency of which is acknowledged, I hereby assign and transfer and/or have nent being made effective as of April 30, 2019:
the right to claim priority to the Application, all in States, European Patent Office and of all other co such inventions or discoveries and all rights in continuations thereof, and to all Letters Patent th supplementary protection certificates, reexamination	the Application, including all priority rights for other countries arising therefrom and aventions or discoveries therein disclosed, and any and all Letters Patent of the United countries, which may be granted for such inventions or discoveries, or any of them, all a such Application including any and all provisionals, substitutions, divisions, and nat may be granted for said inventions and discoveries, and in and to all extensions, ons, renewals, and reissues thereof, to be held and enjoyed by Assignee for its own use for which such Letters Patent may be granted, as fully and entirely as the same would ment and sale not been made.
	Page 1 of 2
313102762.1	

US Application No.: <u>16/846,308</u>

I shall execute all papers necessary in connection with the Application in the United States Patent and Trademark Office, European Patent Office, any other patent offices, and under the Patent Cooperation Treaty, and any continuing, divisional, or reissue applications thereof, any reexamination of any of such applications, and any patent term extensions or supplementary protection certificates of any such applications and also to execute separate assignments in connection with such applications as the Assignee may deem necessary or expedient.

I shall execute all papers necessary in connection with any litigation or any other judicial proceeding in the United States or other country, or any administrative proceeding in the United States Patent and Trademark Office, European Patent Office, any other patent office, or under the Patent Cooperation Treaty concerning the Application(s) or any continuation, divisional, or reissue applications thereof, or any reexamination of any such applications, or any Letters Patent issued therefrom or any patent term extensions or supplementary protection certificates of any such applications and to cooperate with the Assignee in every way possible in obtaining evidence and going forward with such litigation or proceeding.

I shall execute all papers and documents and perform any act which may be necessary in connection with claims or provisions of the International Convention for Protection of Industrial Property or similar agreements.

I shall do all other acts which, in the opinion of Assignee, may be necessary or desirable to secure the grant of Letters Patent to Assignee or its nominees, in the United States, by the European Patent Office and in all other countries where Assignee may desire to have such inventions or discoveries, or any of them, patented, with specifications and claims in such form as shall be approved by Assignee and to vest and confirm in Assignee or its nominees the full and complete legal and equitable title to all such Letters Patent.

I hereby (i) authorize and request the Commissioner of Patents to issue any and all Letters Patent of the United States resulting from the Application or any divisional, continuation, or reissue applications thereof, and any reexamination of any of such applications, to Assignee, and (ii) covenant that I have full right to convey the interest herein assigned, and that I have not executed, and will not execute, any agreement in conflict herewith.

I hereby grant the attorney of record the power to insert on this assignment any further identification which may be necessary or desirable in order to obtain legal recordation of this document.

Michael J. Stokes	7/29/2022
Michael J. Stokes	Date

Page 2 of 2

313102762.1

Attorney Docket No.: END9169USNP5/190177-5 US Application No.: 16/846,308

		05 Application No.: <u>10/640,506</u>		
	COMBINED D	DECLARATION AND ASSIGNMENT		
Title	e of Invention: <u>ARTICULATION CONTRO</u>	L MAPPING FOR A SURGICAL INSTRUMENT		
This d	declaration and assignment is directed to:			
		The attached or filed herewith application of (list of named inventors),		
	or			
		The United States application or PCT international application number 16/846,308 filed on April 11, 2020.		
Decla	laration			
	As the below named inventor, I hereby declar	re that:		
	The above-identified application ("Application	on") was made or authorized by me.		
	I believe that I am the original inventor or an	original inventor of a claimed invention or discovery in the Application.		
		s of the Application, including the claims, and I acknowledge the duty to disclose ned in Title 37, the United States Code of Federal Regulations, §1.56 for filings of		
impris		statement made in this declaration is punishable under 18 U.S.C. § 1001 by fine or for filings of this Application in the United States of America.		
Assig	Assignment Cilag GmbH International Gubelstrasse 34 6300 Zug Switzerland			
	A corporat	ion of the state or country of <u>Switzerland</u>		
	(herein	nafter designated as the "Assignee"),		
□ which	I hereby acknowledge that I have assigned the above-identified invention by previous assignment (attached hereto) to Assignee which is hereby conformed for recordation in the US Patent Office and I confirm I have and do assign and transfer:			
or				
⊠ assign	For good and valuable consideration, the send and transferred to Assignee, such assignment	sufficiency of which is acknowledged, I hereby assign and transfer and/or have being made effective as of April 30, 2019:		
the rig States such contin supple and er	my entire right, title, and interest in, to, and under the Application, including all priority rights for other countries arising therefrom and the right to claim priority to the Application, all inventions or discoveries therein disclosed, and any and all Letters Patent of the United States, European Patent Office and of all other countries, which may be granted for such inventions or discoveries, or any of them, all such inventions or discoveries and all rights in such Application including any and all provisionals, substitutions, divisions, and continuations thereof, and to all Letters Patent that may be granted for said inventions and discoveries, and in and to all extensions, supplementary protection certificates, reexaminations, renewals, and reissues thereof, to be held and enjoyed by Assignee for its own use and enjoyment to the full end of the term or terms for which such Letters Patent may be granted, as fully and entirely as the same would have been held and enjoyed by me had this assignment and sale not been made.			
313102	2768.1	Page 1 of 2		

US Application No.: <u>16/846,308</u>

I shall execute all papers necessary in connection with the Application in the United States Patent and Trademark Office, European Patent Office, any other patent offices, and under the Patent Cooperation Treaty, and any continuing, divisional, or reissue applications thereof, any reexamination of any of such applications, and any patent term extensions or supplementary protection certificates of any such applications and also to execute separate assignments in connection with such applications as the Assignee may deem necessary or expedient.

I shall execute all papers necessary in connection with any litigation or any other judicial proceeding in the United States or other country, or any administrative proceeding in the United States Patent and Trademark Office, European Patent Office, any other patent office, or under the Patent Cooperation Treaty concerning the Application(s) or any continuation, divisional, or reissue applications thereof, or any reexamination of any such applications, or any Letters Patent issued therefrom or any patent term extensions or supplementary protection certificates of any such applications and to cooperate with the Assignee in every way possible in obtaining evidence and going forward with such litigation or proceeding.

I shall execute all papers and documents and perform any act which may be necessary in connection with claims or provisions of the International Convention for Protection of Industrial Property or similar agreements.

I shall do all other acts which, in the opinion of Assignee, may be necessary or desirable to secure the grant of Letters Patent to Assignee or its nominees, in the United States, by the European Patent Office and in all other countries where Assignee may desire to have such inventions or discoveries, or any of them, patented, with specifications and claims in such form as shall be approved by Assignee and to vest and confirm in Assignee or its nominees the full and complete legal and equitable title to all such Letters Patent.

I hereby (i) authorize and request the Commissioner of Patents to issue any and all Letters Patent of the United States resulting from the Application or any divisional, continuation, or reissue applications thereof, and any reexamination of any of such applications, to Assignee, and (ii) covenant that I have full right to convey the interest herein assigned, and that I have not executed, and will not execute, any agreement in conflict herewith.

I hereby grant the attorney of record the power to insert on this assignment any further identification which may be necessary or desirable in order to obtain legal recordation of this document.

Lory G. Eimball 47FCA03EC8824AA	8/8/2022	
Cory G. Kimball	Date	

Page 2 of 2

313102768.1

Attorney Docket No.: <u>END9169USNP5/190177-5</u> US Application No.: <u>16/846,308</u>

COMBINE	D DECLARATION AND ASSIGNMENT
Title of Invention: ARTICULATION CONT	ROL MAPPING FOR A SURGICAL INSTRUMENT
This declaration and assignment is directed to:	
	The attached or filed herewith application of (list of named inventors),
or	
	The United States application or PCT international application number <u>16/846,308</u> filed on <u>April 11, 2020</u> .
Declaration	
As the below named inventor, I hereby de	eclare that:
The above-identified application ("Application ("Applicati	cation") was made or authorized by me.
I believe that I am the original inventor or	an original inventor of a claimed invention or discovery in the Application.
	tents of the Application, including the claims, and I acknowledge the duty to disclose defined in Title 37, the United States Code of Federal Regulations, §1.56 for filings of
	lse statement made in this declaration is punishable under 18 U.S.C. § 1001 by fine or oth for filings of this Application in the United States of America.
Assignment	Cilag GmbH International Gubelstrasse 34 6300 Zug Switzerland
A corpo	oration of the state or country of Switzerland
(he	ereinafter designated as the "Assignee"),
	ed the above-identified invention by previous assignment (attached hereto) to Assignee US Patent Office and I confirm I have and do assign and transfer:
or	
For good and valuable consideration, the assigned and transferred to Assignee, such assignment	he sufficiency of which is acknowledged, I hereby assign and transfer and/or have nent being made effective as of April 30, 2019:
the right to claim priority to the Application, all i States, European Patent Office and of all other c such inventions or discoveries and all rights in continuations thereof, and to all Letters Patent the supplementary protection certificates, reexamination	r the Application, including all priority rights for other countries arising therefrom and any any and all Letters Patent of the United ountries, which may be granted for such inventions or discoveries, or any of them, all a such Application including any and all provisionals, substitutions, divisions, and nat may be granted for said inventions and discoveries, and in and to all extensions, ons, renewals, and reissues thereof, to be held and enjoyed by Assignee for its own use for which such Letters Patent may be granted, as fully and entirely as the same would ment and sale not been made.
313102773.1	Page 1 of 2

US Application No.: <u>16/846,308</u>

I shall execute all papers necessary in connection with the Application in the United States Patent and Trademark Office, European Patent Office, any other patent offices, and under the Patent Cooperation Treaty, and any continuing, divisional, or reissue applications thereof, any reexamination of any of such applications, and any patent term extensions or supplementary protection certificates of any such applications and also to execute separate assignments in connection with such applications as the Assignee may deem necessary or expedient.

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I hereby grant the attorney of record the power to insert on this assignment any further identification which may be necessary or desirable in order to obtain legal recordation of this document.

Taylor W. Arowhalt	8/1/2022
Taylor W. Aronhalt	Date

Page 2 of 2

313102773.1

Attorney Docket No.: <u>END9169USNP5/190177-5</u> US Application No.: <u>16/846,308</u>

		05 Application No.: <u>10/040,500</u>	
COMBI	NED]	DECLARATION AND ASSIGNMENT	
Title of Invention: ARTICULATION C	ONTRO	DL MAPPING FOR A SURGICAL INSTRUMENT	
This declaration and assignment is directed to):		
]		The attached or filed herewith application of (list of named inventors),	
	or		
1	\boxtimes	The United States application or PCT international application number <u>16/846,308</u> filed on <u>April 11, 2020</u> .	
Declaration			
As the below named inventor, I here	by decla	are that:	
The above-identified application ("A	Applicati	ion") was made or authorized by me.	
I believe that I am the original inven	ıtor or aı	n original inventor of a claimed invention or discovery in the Application.	
	y as def	ts of the Application, including the claims, and I acknowledge the duty to disclose ined in Title 37, the United States Code of Federal Regulations, §1.56 for filings of	
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 more than five (5) years, or both for filings of this Application in the United States of America.			
Assignment Cilag GmbH International Gubelstrasse 34 6300 Zug Switzerland			
A	corpora	ation of the state or country of Switzerland	
	(here	inafter designated as the "Assignee"),	
I hereby acknowledge that I have assigned the above-identified invention by previous assignment (attached hereto) to Assignee which is hereby conformed for recordation in the US Patent Office and I confirm I have and do assign and transfer:			
or			
For good and valuable consideration, the sufficiency of which is acknowledged, I hereby assign and transfer and/or have assigned and transferred to Assignee, such assignment being made effective as of April 30, 2019:			
my entire right, title, and interest in, to, and under the Application, including all priority rights for other countries arising therefrom and the right to claim priority to the Application, all inventions or discoveries therein disclosed, and any and all Letters Patent of the United States, European Patent Office and of all other countries, which may be granted for such inventions or discoveries, or any of them, all such inventions or discoveries and all rights in such Application including any and all provisionals, substitutions, divisions, and continuations thereof, and to all Letters Patent that may be granted for said inventions and discoveries, and in and to all extensions, supplementary protection certificates, reexaminations, renewals, and reissues thereof, to be held and enjoyed by Assignee for its own use and enjoyment to the full end of the term or terms for which such Letters Patent may be granted, as fully and entirely as the same would have been held and enjoyed by me had this assignment and sale not been made.			
		Page 1 of 2	
313102778.1			

US Application No.: 16/846,308

I shall execute all papers necessary in connection with the Application in the United States Patent and Trademark Office, European Patent Office, any other patent offices, and under the Patent Cooperation Treaty, and any continuing, divisional, or reissue applications thereof, any reexamination of any of such applications, and any patent term extensions or supplementary protection certificates of any such applications and also to execute separate assignments in connection with such applications as the Assignee may deem necessary or expedient.

I shall execute all papers necessary in connection with any litigation or any other judicial proceeding in the United States or other country, or any administrative proceeding in the United States Patent and Trademark Office, European Patent Office, any other patent office, or under the Patent Cooperation Treaty concerning the Application(s) or any continuation, divisional, or reissue applications thereof, or any reexamination of any such applications, or any Letters Patent issued therefrom or any patent term extensions or supplementary protection certificates of any such applications and to cooperate with the Assignee in every way possible in obtaining evidence and going forward with such litigation or proceeding.

I shall execute all papers and documents and perform any act which may be necessary in connection with claims or provisions of the International Convention for Protection of Industrial Property or similar agreements.

I shall do all other acts which, in the opinion of Assignee, may be necessary or desirable to secure the grant of Letters Patent to Assignee or its nominees, in the United States, by the European Patent Office and in all other countries where Assignee may desire to have such inventions or discoveries, or any of them, patented, with specifications and claims in such form as shall be approved by Assignee and to vest and confirm in Assignee or its nominees the full and complete legal and equitable title to all such Letters Patent.

I hereby (i) authorize and request the Commissioner of Patents to issue any and all Letters Patent of the United States resulting from the Application or any divisional, continuation, or reissue applications thereof, and any reexamination of any of such applications, to Assignee, and (ii) covenant that I have full right to convey the interest herein assigned, and that I have not executed, and will not execute, any agreement in conflict herewith.

I hereby grant the attorney of record the power to insert on this assignment any further identification which may be necessary or desirable in order to obtain legal recordation of this document.

Matthew S Corbin	7/29/2022
EB2FFC82ACAD454	
Matthew S. Corbin	Date

Page 2 of 2

313102778.1

Attorney Docket No.: <u>END9169USNP5/190177-5</u> US Application No.: <u>16/846,308</u>

COMBINED DECLARATION AND ASSIGNMENT			
Title of Invention: ARTICULATION CONTR	OL MAPPING FOR A SURGICAL INSTRUMENT		
This declaration and assignment is directed to:			
	The attached or filed herewith application of (list of named inventors),		
or			
	The United States application or PCT international application number 16/846,308 filed on April 11, 2020.		
Declaration			
As the below named inventor, I hereby dec	slare that:		
The above-identified application ("Application"	ation") was made or authorized by me.		
I believe that I am the original inventor or	an original inventor of a claimed invention or discovery in the Application.		
	ents of the Application, including the claims, and I acknowledge the duty to disclose efined in Title 37, the United States Code of Federal Regulations, §1.56 for filings of		
	se statement made in this declaration is punishable under 18 U.S.C. § 1001 by fine or the for filings of this Application in the United States of America.		
Assignment			
	Cilag GmbH International Gubelstrasse 34 6300 Zug Switzerland		
A corpo	ration of the state or country of Switzerland		
(he	reinafter designated as the "Assignee"),		
	d the above-identified invention by previous assignment (attached hereto) to Assignee S Patent Office and I confirm I have and do assign and transfer:		
or			
For good and valuable consideration, the assigned and transferred to Assignee, such assignment	e sufficiency of which is acknowledged, I hereby assign and transfer and/or have ent being made effective as of April 30, 2019:		
the right to claim priority to the Application, all in States, European Patent Office and of all other co such inventions or discoveries and all rights in continuations thereof, and to all Letters Patent th supplementary protection certificates, reexamination	the Application, including all priority rights for other countries arising therefrom and ventions or discoveries therein disclosed, and any and all Letters Patent of the United puntries, which may be granted for such inventions or discoveries, or any of them, all such Application including any and all provisionals, substitutions, divisions, and at may be granted for said inventions and discoveries, and in and to all extensions, ons, renewals, and reissues thereof, to be held and enjoyed by Assignee for its own use for which such Letters Patent may be granted, as fully and entirely as the same would ment and sale not been made.		
	Page 1 of 2		
313102783.2			

US Application No.: 16/846,308

I shall execute all papers necessary in connection with the Application in the United States Patent and Trademark Office, European Patent Office, any other patent offices, and under the Patent Cooperation Treaty, and any continuing, divisional, or reissue applications thereof, any reexamination of any of such applications, and any patent term extensions or supplementary protection certificates of any such applications and also to execute separate assignments in connection with such applications as the Assignee may deem necessary or expedient.

I shall execute all papers necessary in connection with any litigation or any other judicial proceeding in the United States or other country, or any administrative proceeding in the United States Patent and Trademark Office, European Patent Office, any other patent office, or under the Patent Cooperation Treaty concerning the Application(s) or any continuation, divisional, or reissue applications thereof, or any reexamination of any such applications, or any Letters Patent issued therefrom or any patent term extensions or supplementary protection certificates of any such applications and to cooperate with the Assignee in every way possible in obtaining evidence and going forward with such litigation or proceeding.

I shall execute all papers and documents and perform any act which may be necessary in connection with claims or provisions of the International Convention for Protection of Industrial Property or similar agreements.

I shall do all other acts which, in the opinion of Assignee, may be necessary or desirable to secure the grant of Letters Patent to Assignee or its nominees, in the United States, by the European Patent Office and in all other countries where Assignee may desire to have such inventions or discoveries, or any of them, patented, with specifications and claims in such form as shall be approved by Assignee and to vest and confirm in Assignee or its nominees the full and complete legal and equitable title to all such Letters Patent.

I hereby (i) authorize and request the Commissioner of Patents to issue any and all Letters Patent of the United States resulting from the Application or any divisional, continuation, or reissue applications thereof, and any reexamination of any of such applications, to Assignee, and (ii) covenant that I have full right to convey the interest herein assigned, and that I have not executed, and will not execute, any agreement in conflict herewith.

I hereby grant the attorney of record the power to insert on this assignment any further identification which may be necessary or desirable in order to obtain legal recordation of this document.

Pierre R. Mesnil

Date

Page 2 of 2

_ 08/46/Ro2Q

Attorney Docket No.: END9169USNP5/190177-5
US Application No.: 16/846,308

	55 Tipplication 110 15/01/5,500
COMBINE	D DECLARATION AND ASSIGNMENT
Title of Invention: <u>ARTICULATION CONT</u>	ROL MAPPING FOR A SURGICAL INSTRUMENT
This declaration and assignment is directed to:	
	The attached or filed herewith application of (list of named inventors),
or	
	The United States application or PCT international application number <u>16/846,308</u> filed on <u>April 11, 2020</u> .
Declaration	
As the below named inventor, I hereby de	eclare that:
The above-identified application ("Applic	cation") was made or authorized by me.
I believe that I am the original inventor or	an original inventor of a claimed invention or discovery in the Application.
	tents of the Application, including the claims, and I acknowledge the duty to disclose defined in Title 37, the United States Code of Federal Regulations, §1.56 for filings of
	lse statement made in this declaration is punishable under 18 U.S.C. § 1001 by fine or oth for filings of this Application in the United States of America.
Assignment	Cilag GmbH International Gubelstrasse 34 6300 Zug Switzerland
A corpo	oration of the state or country of <u>Switzerland</u>
(he	ereinafter designated as the "Assignee"),
	ed the above-identified invention by previous assignment (attached hereto) to Assignee US Patent Office and I confirm I have and do assign and transfer:
or	
For good and valuable consideration, the assigned and transferred to Assignee, such assignment	he sufficiency of which is acknowledged, I hereby assign and transfer and/or have nent being made effective as of April 30, 2019:
the right to claim priority to the Application, all in States, European Patent Office and of all other c such inventions or discoveries and all rights in continuations thereof, and to all Letters Patent the supplementary protection certificates, reexamination	r the Application, including all priority rights for other countries arising therefrom and any anticolor or discoveries therein disclosed, and any and all Letters Patent of the United countries, which may be granted for such inventions or discoveries, or any of them, all a such Application including any and all provisionals, substitutions, divisions, and nat may be granted for said inventions and discoveries, and in and to all extensions, ons, renewals, and reissues thereof, to be held and enjoyed by Assignee for its own use for which such Letters Patent may be granted, as fully and entirely as the same would ment and sale not been made.
	Page 1 of 2
313102790.1	

US Application No.: <u>16/846,308</u>

I shall execute all papers necessary in connection with the Application in the United States Patent and Trademark Office, European Patent Office, any other patent offices, and under the Patent Cooperation Treaty, and any continuing, divisional, or reissue applications thereof, any reexamination of any of such applications, and any patent term extensions or supplementary protection certificates of any such applications and also to execute separate assignments in connection with such applications as the Assignee may deem necessary or expedient.

I shall execute all papers necessary in connection with any litigation or any other judicial proceeding in the United States or other country, or any administrative proceeding in the United States Patent and Trademark Office, European Patent Office, any other patent office, or under the Patent Cooperation Treaty concerning the Application(s) or any continuation, divisional, or reissue applications thereof, or any reexamination of any such applications, or any Letters Patent issued therefrom or any patent term extensions or supplementary protection certificates of any such applications and to cooperate with the Assignee in every way possible in obtaining evidence and going forward with such litigation or proceeding.

I shall execute all papers and documents and perform any act which may be necessary in connection with claims or provisions of the International Convention for Protection of Industrial Property or similar agreements.

I shall do all other acts which, in the opinion of Assignee, may be necessary or desirable to secure the grant of Letters Patent to Assignee or its nominees, in the United States, by the European Patent Office and in all other countries where Assignee may desire to have such inventions or discoveries, or any of them, patented, with specifications and claims in such form as shall be approved by Assignee and to vest and confirm in Assignee or its nominees the full and complete legal and equitable title to all such Letters Patent.

I hereby (i) authorize and request the Commissioner of Patents to issue any and all Letters Patent of the United States resulting from the Application or any divisional, continuation, or reissue applications thereof, and any reexamination of any of such applications, to Assignee, and (ii) covenant that I have full right to convey the interest herein assigned, and that I have not executed, and will not execute, any agreement in conflict herewith.

I hereby grant the attorney of record the power to insert on this assignment any further identification which may be necessary or desirable in order to obtain legal recordation of this document.

McLolas J. Ross	1	7/29/2022	
Nicholas J. Ross		Date	

Page 2 of 2

313102790.1

Attorney Docket No.: END9169USNP5/190177-5
US Application No.: 16/846.308

	US Application No.: <u>10/840,308</u>		
COMBINED DEC	CLARATION AND ASSIGNMENT		
Title of Invention: ARTICULATION CONTROL M.	APPING FOR A SURGICAL INSTRUMENT		
This declaration and assignment is directed to:			
The :	attached or filed herewith application of (list of named inventors),		
or			
	United States application or PCT international application per 16/846,308 filed on April 11, 2020.		
Declaration			
As the below named inventor, I hereby declare the	at:		
The above-identified application ("Application")	was made or authorized by me.		
I believe that I am the original inventor or an orig	inal inventor of a claimed invention or discovery in the Application.		
	the Application, including the claims, and I acknowledge the duty to disclose n Title 37, the United States Code of Federal Regulations, §1.56 for filings of		
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 more than five (5) years, or both for filings of this Application in the United States of America.			
Assignment Cilag GmbH International Gubelstrasse 34 6300 Zug Switzerland			
A corporation of	of the state or country of <u>Switzerland</u>		
(hereinafte	r designated as the "Assignee"),		
I hereby acknowledge that I have assigned the above-identified invention by previous assignment (attached hereto) to Assignee which is hereby conformed for recordation in the US Patent Office and I confirm I have and do assign and transfer:			
or			
For good and valuable consideration, the sufficiency of which is acknowledged, I hereby assign and transfer and/or have assigned and transferred to Assignee, such assignment being made effective as of April 30, 2019:			
my entire right, title, and interest in, to, and under the Application, including all priority rights for other countries arising therefrom and the right to claim priority to the Application, all inventions or discoveries therein disclosed, and any and all Letters Patent of the United States, European Patent Office and of all other countries, which may be granted for such inventions or discoveries, or any of them, all such inventions or discoveries and all rights in such Application including any and all provisionals, substitutions, divisions, and continuations thereof, and to all Letters Patent that may be granted for said inventions and discoveries, and in and to all extensions, supplementary protection certificates, reexaminations, renewals, and reissues thereof, to be held and enjoyed by Assignee for its own use and enjoyment to the full end of the term or terms for which such Letters Patent may be granted, as fully and entirely as the same would have been held and enjoyed by me had this assignment and sale not been made.			
Page 1 of 2			
313102799.1			

REEL: 060832 FRAME: 0827

US Application No.: <u>16/846,308</u>

I shall execute all papers necessary in connection with the Application in the United States Patent and Trademark Office, European Patent Office, any other patent offices, and under the Patent Cooperation Treaty, and any continuing, divisional, or reissue applications thereof, any reexamination of any of such applications, and any patent term extensions or supplementary protection certificates of any such applications and also to execute separate assignments in connection with such applications as the Assignee may deem necessary or expedient.

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I hereby grant the attorney of record the power to insert on this assignment any further identification which may be necessary or desirable in order to obtain legal recordation of this document.

Share K. Adams	/	8/9/2022	
Shane R. Adams	·	Date	
313102799.1	Page 2 of 2		
		PATENT	

RECORDED: 08/17/2022