

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT7620515

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
3DINTEGRATED APS	10/27/2022

RECEIVING PARTY DATA

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

PROPERTY NUMBERS Total: 23

Property Type	Number
Application Number:	17330642
Application Number:	15120256
Application Number:	15717088
Application Number:	15589476
Application Number:	17320417
Application Number:	15601276
Application Number:	17330949
Application Number:	16066417
Application Number:	15766492
Application Number:	17029914
Application Number:	63276240
Application Number:	17528369
Application Number:	17733350
Application Number:	17733358
PCT Number:	DK2016050234
PCT Number:	DK2016050180
PCT Number:	DK2016050475
PCT Number:	DK2016050327
PCT Number:	DK2017050443
PCT Number:	DK2018050048

PATENT

Property Type	Number
PCT Number:	DK2017050445
PCT Number:	EP2021076200
PCT Number:	DK2015050035

CORRESPONDENCE DATA

Fax Number: (513)337-8489

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.

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Email: tpiening@its.jnj.com

Correspondent Name: DAVID A. LANE, JR.

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Address Line 2: ONE JOHNSON & JOHNSON PLAZA

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ATTORNEY DOCKET NUMBER:	3DI TO CILAG ASSIGNMENT
NAME OF SUBMITTER:	TRICIA PIENING
SIGNATURE:	/TRICIA PIENING/
DATE SIGNED:	11/01/2022

Total Attachments: 5

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ASSIGNMENT

WHEREAS, **3DIntegrated ApS**, a Private Limited Company of Denmark and having its place of business Titangade 11, 2200 København N, CVR no. 25 29 87 13, Denmark (hereinafter referred to as "Assignor"), is interested in assigning its entire right, title and interest all patents, patent applications and inventions, including without limitations the applications and inventions listing in Schedule A (collectively, the "Patents");

WHEREAS, **Cilag GmbH International**, a company incorporated under the laws of Switzerland, having its registered office at Gubelstrasse 34, 6300 Zug, Switzerland (hereinafter referred to as "Assignee") is desirous of acquiring the Assignors' interest in the Patents;

NOW, THEREFORE, BE IT KNOWN, that in view of good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the Assignor hereby assigns and transfers, for all countries in the world, to said Assignee its entire right, title and interest, including the right to claim priority, in and to the Patents and all inventions disclosed in said applications, including all provisionals, continuations, divisionals, continuations-in-part, substitutes or reissues, reexaminations, extensions, utility models, designs and any other patent or application that claims or derives priority therefrom, together with all rights to sue, make claims, and recover any remedy for any past, present or future infringement, damage or injury (and including the right to take over and continue any and all existing suits) to any of the foregoing and collect profits or damages or recover any remedy with respect to same, the same to be held and enjoyed hereinafter by Assignee for its own use and for the use of its successors and assigns.

Assignor hereby authorizes Assignee to revise and update Schedule A without explicit confirmation of the Assignor. And for purpose of obtaining patent protection in any country, the Assignor hereby agrees that any right, title and interest, in and to all said inventions disclosed in said applications and in and to said applications, and all foreign equivalents thereof can be directly assigned by the inventors to the Assignee without explicit confirmation of the Assignor.

The Assignor agrees that this general assignment is effective from the latest date of execution below.

IN TESTIMONY WHEREOF, the Assignor set hereunto its hand and seal this date.

3Dintegrated ApS

Paul Ritchie

Signature

Paul Ritchie

Print Name

Director

Title of Authorized Signatory

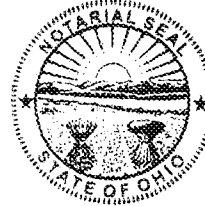
27-Oct-2022

Date

State of OHIO

County of Hamilton

)
) SS:
)



LINDA A GROVES
Notary Public, State of Ohio
My Commission Expires:
September 12, 2024

In the presence of a Notary Public who certifies that the above signatory is authorized to execute this assignment alone and on behalf of **3Dintegrated ApS**, the foregoing instrument was acknowledged before me on this 27 of October, 2022.

IN TESTIMONY WHEREOF, the Assignee set hereunto its hand and seal this date.

Cilag GmbH International

Hilary Reinhardt

Signature

Hilary Reinhardt

Print Name

Authorized Representative

Title of Authorized Signatory

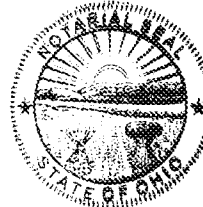
27 Oct 2022

Date

State of OHIO

County of Hamilton

)
) SS:
)



LINDA A GROVES
Notary Public, State of Ohio
My Commission Expires:
September 12, 2024

In the presence of a Notary Public who certifies that the above signatory is authorized to execute this assignment alone and on behalf of **Cilag GmbH International**, the foregoing instrument was acknowledged before me on this 27 of October, 2022.

Attachment:

- Schedule A: list of Patents

SCHEDULE A

APPLICATIONS

Case Reference	Country	Filing	Filing Number	Publication#	Grant#
END9172AUPCT1	AU	20-Feb-2015	2015221258	2015221258	2015221258
END9172CAPCT1	CA	20-Feb-2015	2935506		
END9172CHEPT1	CH	20-Feb-2015	15751532.1	2976015	2976015
END9172CNPCT1	CN	20-Feb-2015	201580009012.3		ZL201580009012.3
END9172DEEPT1	DE	20-Feb-2015	15751532.1	2976015	2976015
END9172DEETD1	DE	29-Sep-2015	17169285.8	2976015	602015044996.7
END9172DKETD1	DK	29-Sep-2015	17169285.8	3228254	3228254
END9172DKNP1	DK	20-Nov-2014	PA 2014 70716		
END9172EPEPA1	EP	21-Feb-2014	14156155.5	2910194	
END9172EPEPT1	EP	20-Feb-2015	15751532.1	2976015	2976015
END9172EPETD1	EP	29-Sep-2015	17169285.8	3228254	3228254
END9172FREPT1	FR	20-Feb-2015	15751532.1	2976015	2976015
END9172FRETD1	FR	29-Sep-2015	17169285.8	3228254	3228254
END9172GBEPT1	GB	20-Feb-2015	15751532.1	2976015	2976015
END9172GBETD1	GB	29-Sep-2015	17169285.8	3228254	3228254
END9172ITEPT1	IT	20-Feb-2015	15751532.1	2976015	2976015
END9172ITETD1	IT	29-Sep-2015	17169285.8	3228254	502020000028372
END9172JPPCD1	JP	20-Mar-2020	2020-059870		6922024
END9172JPPCD2	JP	25-Mar-2021	2020-059870		
END9172JPPCT1	JP	20-Feb-2015	2016-549569		6740131
END9172NLEPT1	NL	20-Feb-2015	15751532.1	2976015	2976015
END9172NLETD1	NL	29-Sep-2015	17169285.8	3228254	3228254
END9172SEEPT1	SE	20-Feb-2015	15751532.1	2976015	2976015
END9172USCNT1	US	26-May-2021	17/330642	US20210345871	
END9172USPCT1	US	20-Feb-2015	15/120256	US20170055819	11033182
END9172WOPCT1	WO	20-Feb-2015	PCT/DK2015/050035	WO2015124159	
END9173CNPCT1	CN	1-Jul-2016	2016800543626	CN108024806B	ZL201680054362.6
END9173DEEPT1	DE	1-Jul-2016	16781653.7	3145419	3145419
END9173DKNP1	DK	21-Jul-2015	PA 2015 70483		
END9173EPEPT1	EP	1-Jul-2016	16781653.7	3145419	3145419
END9173FREPT1	FR	1-Jul-2016	16781653.7	3145419	3145419
END9173GBEPT1	GB	1-Jul-2016	16781653.7	3145419	3145419
END9173ITEPT1	IT	1-Jul-2016	16781653.7	3145419	3145419
END9173JPPCT1	JP	1-Jul-2016	2018-502654		6776327
END9173NLEPT1	NL	1-Jul-2016	16781653.7	3145419	3145419
END9173USCIP1	US	27-Sep-2017	15/717088	US20180014851	11020144
END9173USCNT1	US	8-May-2017	15/589476	US20170238962	11331120
END9173USCNT2	US				

Case Reference	Country	Filing	Filing Number	Publication#	Grant#
END9173USCNT3	US	14-May-2021	17/320417	US20210338268	
END9173WOPCT1	WO	1-Jul-2016	PCT/DK2016/050234	WO2017012624	
END9174CNPCT1	CN	13-Jun-2016	201680067473.0		ZL201680067473.0
END9174DKNP1	DK	9-Oct-2015	PA 2015 70642		178899
END9174EPEPT1	EP	13-Jun-2016	16853132.5	3206559	
END9174INPCT1	IN	13-Jun-2016	201817014054		
END9174JPPCT1	JP	13-Jun-2016	2018-517835		6911017
END9174USCNT1	US	22-May-2017	15/601276	US20170251900	11039734
END9174USCNT2	US	26-May-2021	17/330949	US20210345855	
END9174WOPCT1	WO	13-Jun-2016	PCT/DK2016/050180	WO2017059860	
END9175DKNP1	DK	30-Dec-2015	PA 2015 70890		178989
END9175USPCT1	US	29-Dec-2016	16/066417	US20190008603	10842588
END9175WOPCT1	WO	29-Dec-2016	PCT/DK2016/050475	WO2017114538	
END9176DEEPT1	DE	7-Aug-2022	16853133.3	3359012	3359012
END9176DKNP1	DK	14-Jun-2016	PA 2016 70428		
END9176EPEPT1	EP	7-Oct-2016	16853133.3	3359012	3359012
END9176FREPT1	FR	7-Oct-2016	16853133.3	3359012	3359012
END9176GBEPT1	GB	7-Oct-2016	16853133.3	3359012	3359012
END9176ITEPT1	IT	7-Oct-2016	16853133.3	3359012	3359012
END9176NLEPT1	NL	7-Oct-2016	16853133.3	3359012	3359012
END9176USPCT1	US	7-Oct-2016	15/766492	US20190053691	
END9176WOPCT1	WO	7-Oct-2016	PCT/DK2016/050327	WO2017059870	
END9177DKNP1	DK	20-Dec-2016	PA 2016 71005		
END9177DKNP2	DK				
END9177EPEPT1	EP	19-Dec-2017	17884041.9		
END9177WOPCT1	WO	19-Dec-2017	PCT/DK2017/050443	WO2018113885	
END9178DKNP1	DK	20-Mar-2017	PA 2017 70193		
END9178DKNP2	DK	1-Jun-2017	PA 2017 70430		
END9178EPEPT1	EP	20-Mar-2018	18771352.4		
END9178WOPCT1	WO	20-Mar-2018	PCT/DK2018/050048	WO2018171851	
END9179DKNP1	DK	21-Aug-2017	PA 2017 70631		
END9179EPEPT1	EP	19-Dec-2017	17884238.1		
END9179WOPCT1	WO	19-Dec-2017	PCT/DK2017/050445		
END9229EPEPA1	EP				
END9285USNP1	US	23-Sep-2020	17/029914	US20220087643	
END9285USPCT1	US				
END9285WOPCT1	WO	23-Sep-2021	PCT/EP2021/076200	WO2022063897	
END9415USPSP1	US	5-Nov-2021	63/276240		
END9415USNP1	US	17-Nov-2021	17/528369		
END9442USNP1	US	29-Apr-2022	17/733350		
END9443USNP1	US	29-Apr-2022	17/733358		

INVENTION DISCLOSURES

PEZ ID	Title
321926	ID-A patient bearing assembly
552764	ID-Hyper and multispectral imaging for advanced imaging
554328	ID-Devices and methods to provide surface intersections and 3D mapping of and in the surgical scene
558466	ID-White Light and Molecular Chemical Imaging Fusion for Advanced Visualization
558467	ID-Ultrasound and Stereo Imaging System for Deep Tissue Visualization
561926	ID-Combined Calibrator and Warmer for Advanced Imaging Spatial Reconstruction Devices and Software
562608	ID-Pixel Stabilization for Hyperspectral Structure Identification with Dynamic Scenes
562887	ID-Relating operating room and patient landmarks to a surgical scene
563105	ID-Real time tumor tracking through partial shape ultrasound registration
563524	ID-Learnable image signal processing for laparoscopic videos
563525	ID-Bundle adjustment using miniature camera sensors for 3D reconstruction and virtual cameras
567539	ID-Cannula assembly
567961	ID-See attached
567963	ID-See attached
568286	ID-Wide baseline multi-camera approach to accurate, real-time 3D reconstruction and virtual cameras
569606	ID-Realtime Hyperspectral Stereo Processing for Minimal Invasive Surgical Topology Reconstruction
569607	ID-Online stereo calibration
571992	ID-Measure Anatomy touchscreen system
571993	ID-Measure Anatomy features
572010	ID-Fully customizable laparoscopic video quality and real-time simulations by inverse rendering
574342	ID-Measure anatomy touchscreen, Panoramic
574344	ID-Measure Anatomy, tool-to-tool
579455	ID-Non-invasive virtual camera using novel view synthesis
579897	ID-Rendering patient specific training exercise
583366	ID-Adaptive Overlay Stabilization for Enhanced Visualization of Critical Structures
583367	ID-Real-time Auto FPS Optimization for Advanced Imaging Applications
583368	ID-Multispectral Overlay Heatmaps with Clinical Sensitivity Setting
583787	ID-Erie General System