

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT7004562

SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	SECURITY INTEREST	
CONVEYING PARTY DATA		
	Name	Execution Date
	CSA MEDICAL, INC.	10/01/2021
RECEIVING PARTY DATA		
Name:	CHV III, L.P.	
Street Address:	101 SOUTH HANLEY ROAD	
Internal Address:	SUITE 200	
City:	CLAYTON	
State/Country:	MISSOURI	
Postal Code:	63105	
Name:	SV LIFE SCIENCES FUND V, L.P.	
Street Address:	ONE BOSTON PLACE	
Internal Address:	201 WASHINGTON STREET, SUITE 3900	
City:	BOSTON	
State/Country:	MASSACHUSETTS	
Postal Code:	02108	
Name:	SV LIFE SCIENCES FUND V, STRATEGIC PARTNERS, L.P.	
Street Address:	ONE BOSTON PLACE	
Internal Address:	201 WASHINGTON STREET, SUITE 3900	
City:	BOSTON	
State/Country:	MASSACHUSETTS	
Postal Code:	02108	
Name:	INTERSOUTH PARTNERS VII, L.P.	
Street Address:	102 CITY HALL PLAZA	
Internal Address:	SUITE 200	
City:	DURHAM	
State/Country:	NORTH CAROLINA	
Postal Code:	27701	
Name:	DISRUPTIVE INNOVATION FUND, LP	
Street Address:	4 SOUTH MARKET BUILDING	
City:	BOSTON	
State/Country:	MASSACHUSETTS	

PATENT

Postal Code:	02109
Name:	BHCM CSA MEDICAL, LLC
Street Address:	9030 STONY POINT PARKWAY
Internal Address:	SUITE 140
City:	RICHMOND
State/Country:	VIRGINIA
Postal Code:	23235
Name:	ALFRED M. RANKIN, JR. TRUST
Street Address:	7421 MARKILL ROAD
City:	WAITE HILL
State/Country:	OHIO
Postal Code:	44094
Name:	BENMIKE INVESTMENT CO. LLC
Street Address:	1375 E. 9TH STREET, SUITE 1700
City:	CLEVELAND
State/Country:	OHIO
Postal Code:	44114
Name:	CHARLES G. BROWN, INC.
Street Address:	7850 WALKER DRIVE 4TH FLOOR
Internal Address:	C/O API SOURCE, INC.
City:	GREENBELT
State/Country:	MARYLAND
Postal Code:	20770
Name:	CLAIBORNE R. RANKIN REVOCABLE TRUST U/A/D 6/22/71
Street Address:	36779 CEDAR ROAD
City:	GATES MILL
State/Country:	OHIO
Postal Code:	44040
Name:	E. DALE INKLEY
Street Address:	5126 EAST FARNHURST ROAD
City:	LYNDHURST
State/Country:	OHIO
Postal Code:	44124
Name:	ENSIGN COWELL
Street Address:	2233 DEMINGTON DRIVE
City:	CLEVELAND
State/Country:	OHIO
Postal Code:	44106
Name:	EVERGREEN VENTURES LTD

PATENT

REEL: 058006 FRAME: 0452

Street Address:	1100 SUPERIOR AVE. EAST, SUITE 700
Internal Address:	C/O CLEARSTEAD
City:	CLEVELAND
State/Country:	OHIO
Postal Code:	44114
Name:	G. BRIAN KRONEBERGER JR.
Street Address:	225 SCHILLING CIRCLE, SUITE 250
City:	HUNT VALLEY
State/Country:	MARYLAND
Postal Code:	21031
Name:	G. RUSSELL LINCOLN
Street Address:	7471 FOXBORO ROAD
City:	GATES MILLS
State/Country:	OHIO
Postal Code:	44040
Name:	G. RUSSELL LINCOLN REVOCABLE TRUST DTD 10/31/2007
Street Address:	7471 FOXBORO ROAD
City:	GATES MILLS
State/Country:	OHIO
Postal Code:	44040
Name:	GUIDE MEDICAL VENTURES, LLC
Street Address:	2 OLIVER STREET, 4TH FLOOR
City:	BOSTON
State/Country:	MASSACHUSETTS
Postal Code:	02109
Name:	H&B INVESTMENT PARTNERSHIP
Street Address:	22901 AURORA ROAD
Internal Address:	P.O. BOX 46739
City:	BEDFORD HEIGHTS
State/Country:	OHIO
Postal Code:	44146
Name:	JAMES J. MAHONEY JR.
Street Address:	86 WINDING RIVER ROAD
City:	NEEDHAM
State/Country:	MASSACHUSETTS
Postal Code:	02492
Name:	MARC S. DAVIDSON
Street Address:	41 WEST PARISH DRIVE
City:	ANDOVER

PATENT

REEL: 058006 FRAME: 0453

State/Country:	MASSACHUSETTS
Postal Code:	01810
Name:	MARK V. DYER
Street Address:	225 SCHILLING CIRCLE, SUITE 250
City:	HUNT VALLEY
State/Country:	MARYLAND
Postal Code:	21031
Name:	MEDTECH INVESTMENTS, LLC
Street Address:	90 WEATHERS STREET
City:	YOUNGSVILLE
State/Country:	NORTH CAROLINA
Postal Code:	27596
Name:	MICHAEL A. ELLIS
Street Address:	1375 E. 9TH STREET, SUITE 1700
City:	CLEVELAND
State/Country:	OHIO
Postal Code:	44114
Name:	MWK TRUST, MIRIAM WINDER-KELLY TTE
Street Address:	11306 WOODLAND DRIVE
City:	LUTHERVILLE
State/Country:	MARYLAND
Postal Code:	21093
Name:	NATHANIEL T. SMITH
Street Address:	1745 EPPING ROAD
City:	GATES MILLS
State/Country:	OHIO
Postal Code:	44040
Name:	NATIONAL FINANCIAL SERVICES/ FIDELITY INVESTMENTS CUSTODIAN FBO STEVEN E. SCHAEFER IRA
Street Address:	317 MEADOWCROFT LANE
City:	LUTHERVILLE
State/Country:	MARYLAND
Postal Code:	21093
Name:	DAVID BROWN
Street Address:	15901 IRISH AVENUE
City:	MONKTON
State/Country:	MARYLAND
Postal Code:	21111
Name:	TOM VON HERRMANN

Street Address:	23599 SHAKER BLVD. SHAKER
City:	SHAKER HEIGHTS
State/Country:	OHIO
Postal Code:	44122
Name:	RICHARD T. SCHWARZ
Street Address:	21850 SHELBOURNE ROAD
City:	SHAKER HEIGHTS
State/Country:	OHIO
Postal Code:	44122
Name:	STEVEN E. PECK
Street Address:	6 BRETT MANOR COURT HUNT
City:	HUNT VALLEY
State/Country:	MARYLAND
Postal Code:	21030
Name:	STEVEN E. SCHAEFER
Street Address:	604 BOXMERE COURT
City:	LUTHERVILLE
State/Country:	MARYLAND
Postal Code:	21093
Name:	SYCAMORE FUND 1, LLC
Street Address:	36779 CEDAR ROAD
City:	GATES MILLS
State/Country:	OHIO
Postal Code:	44040
Name:	SYMARK LLC
Street Address:	13421 PARKE COMMONS BLVD.
Internal Address:	SUITE 102
City:	FORT MYERS
State/Country:	FLORIDA
Postal Code:	33912
Name:	TIMOTHY T. WEGLIICKI
Street Address:	10605 BROOKLAWN RD
City:	OWINGS MILLS
State/Country:	MARYLAND
Postal Code:	21317
Name:	TOM MELITA
Street Address:	7860 ROLLING ACRES
City:	SUPERIOR TOWNSHIP
State/Country:	MICHIGAN

PATENT

REEL: 058006 FRAME: 0455

Postal Code:	48198
Name:	VICTOIRE G. RANKIN TRUST
Street Address:	7421 MARKILL ROAD
City:	WAITE HILL
State/Country:	OHIO
Postal Code:	44094
Name:	WILLIAM E. CONWAY UTA DATED 12/12/80 AS AMENDED
Street Address:	P.O. BOX 87
City:	CHARDON
State/Country:	OHIO
Postal Code:	44024

PROPERTY NUMBERS Total: 21

Property Type	Number
Patent Number:	10492843
Patent Number:	9867648
Patent Number:	9301796
Patent Number:	9144449
Patent Number:	9820797
Application Number:	15846741
Application Number:	15793357
Application Number:	14012320
Application Number:	14848608
Application Number:	15668004
Application Number:	15158698
Application Number:	15659199
Application Number:	15498439
Application Number:	15914507
Application Number:	15791042
Application Number:	15814900
Application Number:	15914510
Application Number:	15874414
Application Number:	16523658
Application Number:	16279555
Application Number:	16131532

CORRESPONDENCE DATA

Fax Number: (617)310-9345

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.

PATENT

REEL: 058006 FRAME: 0456

Phone: 6174392345
Email: MDANIELS@NUTTER.COM
Correspondent Name: MALISSA DANIELS
Address Line 1: 155 SEAPORT BLVD.
Address Line 4: BOSTON, MASSACHUSETTS 02210

NAME OF SUBMITTER:	SUZANNE HAMEL
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SIGNATURE:	/s/ Suzanne Hamel
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DATE SIGNED:	11/03/2021
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	This document serves as an Oath/Declaration (37 CFR 1.63).
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Total Attachments: 8

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GRANT OF SECURITY INTEREST
PATENTS

THIS GRANT OF SECURITY INTEREST PATENTS, dated as of October 1, 2021, is executed by CSA MEDICAL, INC., a Maryland corporation with an address of 131 Hartwell Avenue, Lexington, Massachusetts 02421 ("Debtor"), in favor of each of the parties listed on Schedule 1 hereto to the extent each such party holds a Subordinated Secured Convertible Promissory Note issued by the Debtor pursuant to the Agreement (as defined below) (each such party holding a Secured Convertible Promissory Note issued pursuant to the Agreement, a "Secured Party" and collectively, the "Secured Parties").

A. Pursuant to a certain Convertible Note and Warrant Purchase Agreement, dated on or about the date hereof (the "Agreement") by and between Debtor and the Secured Parties, the Secured Parties have agreed to make loans to Debtor upon the terms and subject to the conditions set forth therein;

B. Debtor owns the patents and/or applications for patents, more particularly described on Schedules 2-A and 2-B annexed hereto as part hereof (collectively, the "Patents") which represent all of the Debtor's registered patent and/or applications for patents;

C. Pursuant to the Agreement and related Security Agreement (as defined in the Agreement), Debtor has granted to Secured Parties a security interest in all right, title and interest of Debtor in and to the Patents, together with any reissue, continuation, continuation-in-part or extension thereof, and all proceeds thereof, including any and all causes of action which may exist by reason of infringement thereof for the full term of the Patents (the "Patent Collateral"), to secure the prompt payment, performance and observance of the Obligations (as defined in the Agreement);

NOW, THEREFORE, for good and valuable consideration, receipt of which is hereby acknowledged, Debtor does hereby further grant to Secured Parties a security interest in the Patent Collateral to secure the prompt payment, performance and observance of the Obligations.


Debtor does hereby further acknowledge and affirm that the rights and remedies of Secured Parties with respect to the security interest in the Patent Collateral granted hereby are more fully set forth in the Security Agreement, the terms and provisions of which are hereby incorporated herein by reference as if fully set forth herein.

Debtor hereby agrees to notify the Secured Parties of any additional registered patent and/or applications for patents which may be filed after the date hereof, which will become Patents hereunder.

IN WITNESS WHEREOF, Debtor has caused this instrument to be executed as of the day and year first written above.

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CSA MEDICAL, INC.

DocuSigned by:

By: 67948FEF863E662
Name: Wendelin Maners
Title: President and Chief Executive Officer

[Signature page to Grant of Security Interest Patents]

PATENT
REEL: 058006 FRAME: 0459

SCHEDULE 1

Names of Secured Parties

Ascension Health Ventures (CHV III, L.P.) 101 South Hanley Road Suite 200 Clayton, MO 63105
SV Life Sciences Fund V, L.P. SV Life Sciences One Boston Place 201 Washington Street, Suite 3900 Boston, MA 02108 Attn: Dana O'Brien
SV Life Sciences Fund V, Strategic Partners, L.P. SV Life Sciences One Boston Place 201 Washington Street, Suite 3900 Boston, MA 02108 Attn: Dana O'Brien
Intersouth Partners VII, L.P. 102 City Hall Plaza Suite 200 Durham, NC 27701
Disruptive Innovation Fund, LP 4 South Market Building Boston, MA 02109
BHCM CSA Medical, LLC 9030 Stony Point Parkway Suite 140 Richmond, VA 23235
Intersouth Partners VII, L.P. 102 City Hall Plaza Suite 200 Durham, NC 27701
Alfred M. Rankin, Jr. Trust 7421 Markill Road Waite Hill, Ohio 44094
Benmike Investment Co. LLC 1375 E. 9 th Street, Suite 1700 Cleveland, Ohio 44114

Charles G. Brown, Inc. C/O API Source, Inc 7850 Walker Drive 4th floor Greenbelt, MD 20770
Claiborne R. Rankin Revocable Trust u/a/d 6/22/71 36779 Cedar Road Gates Mill, Ohio 44040-9721
E. Dale Inkley 5126 East Farnhurst Road Lyndhurst, OH 44124
Ensign Cowell 2233 Demington Drive Cleveland, OH 44106
Evergreen Ventures LTD c/o Clearstead 1100 Superior Ave. East, Suite 700 Cleveland, Ohio 44114
G. Brian Kroneberger, Jr. (incl. IRA shares) 225 Schilling Circle, Suite 250 Hunt Valley, MD 21031
G. Russell Lincoln 7471 Foxboro Road Gates Mills, OH 44040
G. Russell Lincoln Revocable Trust dtd 10/31/2007 7471 Foxboro Road Gates Mills, OH 44040
Guide Medical Ventures, LLC 2 Oliver Street, 4 th Floor Boston, MA 02109
H&B Investment Partnership P.O. Box 46739 22901 Aurora Road Bedford Heights, Ohio 44146
James J. Mahoney Jr. 86 Winding River Road Needham, MA 02492
Marc S. Davidson 41 West Parish Drive Andover, MA 01810

Mark V. Dyer 225 Schilling Circle, Suite 250 Hunt Valley, MD 21031
Medtech Investments, LLC 90 Weathers Street Youngsville NC 27596
Michael A. Ellis 1375 E. 9 th Street, Suite 1700 Cleveland, Ohio 44114
MWK Trust, Miriam Winder-Kelly TTE 11306 Woodland Drive Lutherville, MD 21093-3515
Nathaniel T. Smith 1745 Epping Road Gates Mills, OH 44040
National Financial Services/ Fidelity Investments Custodian fbo Steven E. Schaefer IRA 317 Meadowcroft Lane Lutherville, MD 21093
David Brown 15901 Irish Avenue Monkton, MD 21111
Tim von Herrmann 23599 Shaker Blvd. Shaker Heights, OH 44122
Richard T. Schwarz 21850 Shelbourne Road Shaker Heights, OH 44122
Steven E. Peck 6 Brett Manor court Hunt Valley, MD 21030
Steven E. Schaefer 604 Boxmere Court Lutherville, MD 21093
Sycamore Fund 1, LLC 36779 Cedar Road Gates Mills, Ohio 44040-9721

Symark LLC 13421 Parke Commons Blvd. Suite 102 Fort Myers, FL 33912
Timothy T. Weglicki 10605 Brooklawn Rd Owings Mills, MD 21317
Tom Melita 7860 Rolling Acres Superior Township, MI 48198
Victoire G. Rankin Trust 7421 Markill Road Waite Hill, Ohio 44094
William E. Conway UTA dated 12/12/80 as Amended P.O. Box 87 Chardon, OH 44024

SCHEDULE 2-A TO GRANT OF SECURITY INTEREST
PATENTS

Atty Docket	Title	Serial	Status
8177CSA0001	METHOD AND SYSTEM FOR CONSISTENT, REPEATABLE, AND SAFE CRYOSPRAY TREATMENT OF AIRWAY TISSUE	10492843	Granted
8177CSA0002	METHOD AND SYSTEM FOR CONSISTENT, REPEATABLE, AND SAFE CRYOSPRAY TREATMENT OF AIRWAY TISSUE	9867648	Granted
8177CSA0003	CRYOSURGERY SYSTEM	9301796	Granted
8177CSA0003CP	CRYOSURGERY SYSTEM	9144449	Granted
8177CSA0003CPC1	CRYOSURGERY SYSTEM	9820797	Granted

SCHEDULE 2-B TO GRANT OF SECURITY INTEREST
PATENT APPLICATIONS

Atty Docket	Title	Serial	Status
8177CSA0002C1	METHOD AND SYSTEM FOR CONSISTENT, REPEATABLE, AND SAFE CRYOSPRAY TREATMENT OF AIRWAY TISSUE	15846741	Pending
8177CSA0003CPC2	CRYOSURGERY SYSTEM	15793357	Pending
8177CSA0004	CRYOSPRAY CATHETERS	14012320	Pending
8177CSA0007	BRONCHOSCOPIC SHEATH FOR MEASURING OR SPACING	14848608	Pending
8177CSA0020	ROTATIONAL CRYOGEN DELIVERY DEVICE	15668004	Pending
8177CSA0021	CATHETER EXTENSION CONTROL	15158698	Pending
8177CSA0022	METHOD & APPARATUS TO PERFORM CRYOTHERAPY	15659199	Pending
8177CSA0026	ENDOSCOPE VISION PRESERVATION SYSTEM FOR CRYOTHERAPY DEVICES	15498439	Pending
8177CSA0027	APPARATUS TO DETERMINE GAS EGRESS / VENTILATOR CONNECTION PRIOR TO CRYOTHERAPY	15914507	Pending
8177CSA0028	METHOD & APPARATUS FOR PERFORMING CRYOTHERAPY OF DISTAL LUNG LESIONS	15791042	Pending

8177CSA0030	APPARATUS TO DETERMINE GAS EGRESS / VENTILATOR CONNECTION PRIOR TO CRYOTHERAPY	15814900	Pending
8177CSA0032	CATHETER INTERFACE TO BLOCK AND REMOVE FLUID FROM SCOPE WORKING CHANNEL	15914510	Pending
8177CSA0033	SYSTEMS AND METHODS TO PREVENT OR SIGNIFICANTLY INHIBIT GAS PROGRESSION DURING SPRAY CRYOTHERAPY	15874414	Pending
8177CSA0041	EMBEDDED SYSTEM FOR THREE- DIMENSIONAL MAPPING AND CONTROL IN SOLIDS, LIQUIDS, GASES, GELS AND COMPOSITES	16523658	Pending
8177CSA0046	DEVICES AND METHODS FOR GUIDING INSTRUMENTS	16279555	Pending
8177CSA0047PR	SYSTEMS AND METHODS TO ENHANCE RADIAL SPRAY FROM A CATHETER	16131532	Pending