

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

EPAS ID: PAT8024804

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	SECURITY INTEREST
CONVEYING PARTY DATA	
Name	Execution Date
DELPHINUS MEDICAL TECHNOLOGIES, INC.	06/22/2023
RECEIVING PARTY DATA	
Name:	TRINITY CAPITAL INC.
Street Address:	1 N 1ST STREET, FLOOR 3
City:	PHOENIX
State/Country:	ARIZONA
Postal Code:	85004
PROPERTY NUMBERS Total: 35	
Property Type	Number
Patent Number:	6984210
Patent Number:	7285092
Patent Number:	8376946
Patent Number:	8532951
Patent Number:	8663113
Patent Number:	8870771
Patent Number:	8876716
Patent Number:	9101290
Patent Number:	9113835
Patent Number:	9144403
Patent Number:	9763641
Patent Number:	9814441
Patent Number:	10076304
Patent Number:	10123770
Patent Number:	10143443
Patent Number:	10201324
Patent Number:	10231696
Patent Number:	10251622
Patent Number:	10278672
Patent Number:	10285667

Property Type	Number
Patent Number:	10368831
Patent Number:	10743837
Patent Number:	10898164
Patent Number:	11064974
Patent Number:	11071520
Patent Number:	11147537
Patent Number:	11298105
Patent Number:	11298111
Patent Number:	11350905
Patent Number:	11399798
Application Number:	16212760
Application Number:	17076384
Application Number:	17537396
Application Number:	17840121
Application Number:	17851650

CORRESPONDENCE DATA

Fax Number:

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: 8004945225

Email: ipteam@cogencyglobal.com

Correspondent Name: STEWART WALSH

Address Line 1: 1025 CONNECTICUT AVE NW, SUITE 712

Address Line 2: COGENCY GLOBAL INC.

Address Line 4: WASHINGTON, D.C. 20036

ATTORNEY DOCKET NUMBER:	2037848 PAT
NAME OF SUBMITTER:	YVETTE STOHLER
SIGNATURE:	/Yvette Stohler/
DATE SIGNED:	06/26/2023

Total Attachments: 38

source=Trinity_-_Delphinus_-_IP_Security_Agreement 6-22-23#page1.tif
source=Trinity_-_Delphinus_-_IP_Security_Agreement 6-22-23#page2.tif
source=Trinity_-_Delphinus_-_IP_Security_Agreement 6-22-23#page3.tif
source=Trinity_-_Delphinus_-_IP_Security_Agreement 6-22-23#page4.tif
source=Trinity_-_Delphinus_-_IP_Security_Agreement 6-22-23#page5.tif
source=Trinity_-_Delphinus_-_IP_Security_Agreement 6-22-23#page6.tif
source=Trinity_-_Delphinus_-_IP_Security_Agreement 6-22-23#page7.tif
source=Trinity_-_Delphinus_-_IP_Security_Agreement 6-22-23#page8.tif
source=Trinity_-_Delphinus_-_IP_Security_Agreement 6-22-23#page9.tif
source=Trinity_-_Delphinus_-_IP_Security_Agreement 6-22-23#page10.tif

source=Trinity_-_Delphinus_-_IP_Security_Agreement 6-22-23#page11.tif
source=Trinity_-_Delphinus_-_IP_Security_Agreement 6-22-23#page12.tif
source=Trinity_-_Delphinus_-_IP_Security_Agreement 6-22-23#page13.tif
source=Trinity_-_Delphinus_-_IP_Security_Agreement 6-22-23#page14.tif
source=Trinity_-_Delphinus_-_IP_Security_Agreement 6-22-23#page15.tif
source=Trinity_-_Delphinus_-_IP_Security_Agreement 6-22-23#page16.tif
source=Trinity_-_Delphinus_-_IP_Security_Agreement 6-22-23#page17.tif
source=Trinity_-_Delphinus_-_IP_Security_Agreement 6-22-23#page18.tif
source=Trinity_-_Delphinus_-_IP_Security_Agreement 6-22-23#page19.tif
source=Trinity_-_Delphinus_-_IP_Security_Agreement 6-22-23#page20.tif
source=Trinity_-_Delphinus_-_IP_Security_Agreement 6-22-23#page21.tif
source=Trinity_-_Delphinus_-_IP_Security_Agreement 6-22-23#page22.tif
source=Trinity_-_Delphinus_-_IP_Security_Agreement 6-22-23#page23.tif
source=Trinity_-_Delphinus_-_IP_Security_Agreement 6-22-23#page24.tif
source=Trinity_-_Delphinus_-_IP_Security_Agreement 6-22-23#page25.tif
source=Trinity_-_Delphinus_-_IP_Security_Agreement 6-22-23#page26.tif
source=Trinity_-_Delphinus_-_IP_Security_Agreement 6-22-23#page27.tif
source=Trinity_-_Delphinus_-_IP_Security_Agreement 6-22-23#page28.tif
source=Trinity_-_Delphinus_-_IP_Security_Agreement 6-22-23#page29.tif
source=Trinity_-_Delphinus_-_IP_Security_Agreement 6-22-23#page30.tif
source=Trinity_-_Delphinus_-_IP_Security_Agreement 6-22-23#page31.tif
source=Trinity_-_Delphinus_-_IP_Security_Agreement 6-22-23#page32.tif
source=Trinity_-_Delphinus_-_IP_Security_Agreement 6-22-23#page33.tif
source=Trinity_-_Delphinus_-_IP_Security_Agreement 6-22-23#page34.tif
source=Trinity_-_Delphinus_-_IP_Security_Agreement 6-22-23#page35.tif
source=Trinity_-_Delphinus_-_IP_Security_Agreement 6-22-23#page36.tif
source=Trinity_-_Delphinus_-_IP_Security_Agreement 6-22-23#page37.tif
source=Trinity_-_Delphinus_-_IP_Security_Agreement 6-22-23#page38.tif

INTELLECTUAL PROPERTY SECURITY AGREEMENT

THIS INTELLECTUAL PROPERTY SECURITY AGREEMENT ("Agreement") dated as of June 22, 2023, is made by DELPHINUS MEDICAL TECHNOLOGIES, INC., a Delaware corporation (the "Grantor"), in favor of TRINITY CAPITAL INC., a Maryland corporation ("Lender").

RECITALS

A. Grantor has entered into a Loan and Security Agreement with Lender, dated as of the date hereof (as amended, restated, or otherwise modified from time to time, the "Loan Agreement"). All capitalized terms used but not defined herein shall have the respective meanings given to them in the Loan Agreement.

B. Pursuant to the terms of the Loan Agreement, Grantor has granted to Lender for its benefit a security interest in all of Grantor's right, title and interest, whether presently existing or hereafter acquired, in, to and under all of the Collateral.

NOW, THEREFORE, for good and valuable consideration, receipt of which is hereby acknowledged, and intending to be legally bound, as collateral security for the prompt and complete payment when due of its obligations under the Loan Agreement, Grantor hereby represents, warrants, covenants and agrees as follows:

AGREEMENT

1. Grant of Security Interest. To secure its obligations under the Loan Agreement, Grantor grants and pledges to Lender for its benefit a security interest in all of Grantor's right, title and interest in, to and under its intellectual property (all of which shall collectively be called the "Intellectual Property Collateral"), including, without limitation, the following:

(a) Any and all copyright rights, copyright applications, copyright registrations and like protections in each work of authorship and derivative work thereof, whether published or unpublished and whether or not the same also constitutes a trade secret, now or hereafter existing, created, acquired or held, including without limitation those set forth on Exhibit A attached hereto (collectively, the "Copyrights");

(b) Any and all trade secrets, and any and all intellectual property rights in computer software and computer software products now or hereafter existing, created, acquired or held;

(c) Any and all design rights that may be available to Grantor now or hereafter existing, created, acquired or held;

(d) All patents, patent applications and like protections including, without limitation, improvements, divisions, continuations, renewals, reissues, extensions, re-examination certificates, utility models, and continuations-in-part of the same, including without limitation the patents and patent applications set forth on Exhibit B attached hereto (collectively, the "Patents");

(e) Any trademark and servicemark rights, whether registered or not, applications to register and registrations of the same and like protections, and the entire goodwill of the business of Grantor connected with and symbolized by such trademarks, including without limitation those set forth on Exhibit C attached hereto (collectively, the "Trademarks");

(f) All mask works or similar rights available for the protection of semiconductor chips, now owned or hereafter acquired, including, without limitation those set forth on Exhibit D attached hereto (collectively, the "Mask Works");

(g) Any and all claims for damages by way of past, present and future infringements of any of the rights included above, with the right, but not the obligation, to sue for and collect such damages for said use or infringement of the intellectual property rights identified above;

(h) All licenses or other rights to use any of the Copyrights, Patents, Trademarks, or Mask Works and all license fees and royalties arising from such use to the extent permitted by such license or rights;

(i) All amendments, renewals and extensions of any of the Copyrights, Trademarks, Patents, or Mask Works; and

(j) All proceeds and products of the foregoing, including without limitation all payments under insurance or any indemnity or warranty payable in respect of any of the foregoing.

2. Recordation. Grantor authorizes the Commissioner for Patents, the Commissioner for Trademarks and the Register of Copyrights and any other government officials to record and register this Agreement upon request by Lender.

Grantor hereby authorizes Lender to (a) modify this Agreement unilaterally by amending the exhibits to this Agreement to include any Intellectual Property Collateral which Grantor obtains subsequent to the date of this Agreement and (b) file a duplicate original of this Agreement containing amended exhibits reflecting such new Intellectual Property Collateral.

3. Loan Documents. This Agreement has been entered into pursuant to and in conjunction with the Loan Agreement, which is hereby incorporated by reference. The provisions of the Loan Agreement shall supersede and control over any conflicting or inconsistent provision herein. The rights and remedies of Lender with respect to the Intellectual Property Collateral are as provided by the Loan Agreement and related documents, and nothing in this Agreement shall be deemed to limit such rights and remedies.

4. Execution in Counterparts. This Agreement and any amendments, waivers, consents or supplements hereto may be executed in any number of counterparts, and by different parties hereto in separate counterparts, each of which when so delivered shall be deemed an original, but all of which counterparts shall constitute but one and the same instrument. Delivery of an executed counterpart of a signature page of this Agreement by facsimile, portable document format (.pdf) or other electronic transmission will be as effective as delivery of a manually executed counterpart hereof.

5. Successors and Assigns. The provisions of this Agreement shall inure to the benefit of the parties hereto and their respective successors and assigns. Grantor shall not assign its obligations under this Agreement without Lender's express prior written consent, and any such attempted assignment shall be void and of no effect. Lender may assign, transfer, or endorse its rights hereunder pursuant to the terms of the Loan Agreement without prior notice to Grantor, and all of such rights shall inure to the benefit of Lender's successors and assigns.

6. Governing Law. This Agreement has been negotiated and delivered to Lender in the State of California, and shall have been accepted by Lender in the State of California. This Agreement shall be governed by, and construed and enforced in accordance with, the laws of the State of California, excluding conflict of laws principles that would cause the application of laws of any other jurisdiction.

[Balance of Page Intentionally Left Blank.]

IN WITNESS WHEREOF, the parties have caused this Intellectual Property Security Agreement to be duly executed as of the day and year first above written.

GRANTOR:

DELPHINUS MEDICAL TECHNOLOGIES, INC.,
a Delaware corporation

DocuSigned by:

By: Mark Forchette
Name: Mark J. Forchette
Title: President and Chief Executive Officer

LENDER:

TRINITY CAPITAL INC.,
a Maryland corporation

DocuSigned by:

By: Sarah Stanton
Name: Sarah Stanton
Title: General Counsel and Chief Compliance Officer

[Signature Page to Intellectual Property Security Agreement]

EXHIBIT A

COPYRIGHTS

None.

COPY VIEW

EXHIBIT B

PATENTS

See attached.

COPY VIEW

Patent Status Report by Case Number

Monday, May 15, 2023

Case Number, Sub Case Country Name	Case Type	Application Number Application Date	Publication Number Publication Date	Patent Number Issue Date	STATUS Client Ref
50174-700, United States of America Title: Agent: International Search Authority: Finance Hold: No GENERAL PATENT DOCKET ORD					
50174-703, 101 United States of America Title: Agent: International Search Authority: Finance Hold: No HIGH RESOLUTION ULTRASOUND ANATOMICAL IMAGING SYSTEM PRO 60/078,788 20-Mar-1998 ORD					
50174-703, 201 United States of America Title: Agent: International Search Authority: Finance Hold: No METHOD AND APPARATUS FOR HIGH-RESOLUTION DETECTION AND CHARACTERIZATION OF MEDICAL PATHOLOGIES ORD 09/272,452 19-Mar-1999 ORD					
50174-703, 301 United States of America Title: Agent: International Search Authority: Finance Hold: No METHOD AND APPARATUS FOR HIGH-RESOLUTION DETECTION AND CHARACTERIZATION OF MEDICAL PATHOLOGIES COG 08/694,025 27-Nov-2001 2002-0065466 5/30/2002 12:00:00AM 6,728,567 27-Apr-2004 Expired P01C					
50174-703, 601 Patent Cooperation Treaty Title: Agent: International Search Authority: Finance Hold: No MULTIDIMENSIONAL DETECTION AND CHARACTERIZATION OF PATHOLOGIC TISSUES ORD PCT/US1999/006026 19-Mar-1999 9/23/1999 12:00:00AM 30 MO DONE					

Patent Status Report by Case Number

Page 2 of 31

Monday, May 15, 2023

Case Number, Sub Case Country Name	Case Type	Application Number Application Date	Publication Number Publication Date	Patent Number Issue Date	STATUS Client Ref
50174-703, 611 European Patent Convention Title: Agent: International Search Authority: Finance Hold:	PCT	99912707.9 19-Mar-1999	1063920 1/3/2001 12:00:00AM	1063920 29-Nov-2006	Expired
MULTIDIMENSIONAL DETECTION AND CHARACTERIZATION OF PATHOLOGIC TISSUES Maguire Boss					
50174-703, 621 Germany Title: Agent: International Search Authority: Finance Hold:	EPP	99912707.9 19-Mar-1999	1063920 1/3/2001 12:00:00AM	86934215.5 29-Nov-2006	Expired
MULTIDIMENSIONAL DETECTION AND CHARACTERIZATION OF PATHOLOGIC TISSUES Maguire Boss					
50174-703, 631 France Title: Agent: International Search Authority: Finance Hold:	EPP	99912707.9 19-Mar-1999	1063920 1/3/2001 12:00:00AM	1063920 29-Nov-2006	Expired
MULTIDIMENSIONAL DETECTION AND CHARACTERIZATION OF PATHOLOGIC TISSUES Maguire Boss					
50174-703, 641 United Kingdom Title: Agent: International Search Authority: Finance Hold:	EPP	99912707.9 19-Mar-1999	1063920 1/3/2001 12:00:00AM	1063920 29-Nov-2006	Expired
MULTIDIMENSIONAL DETECTION AND CHARACTERIZATION OF PATHOLOGIC TISSUES Maguire Boss					
50174-703, 701 Canada Title: Agent: International Search Authority: Finance Hold:	PCT	2,324,602 19-Mar-1999	2,324,602 24-Jul-2012	2,324,602 24-Jul-2012	Expired
MULTIDIMENSIONAL DETECTION AND CHARACTERIZATION OF PATHOLOGIC TISSUES Bereskin & Parr LLP / S.E.N					
50174-703, 761 Japan Title: Agent: International Search Authority: Finance Hold:	PCT	2000-536290 19-Mar-1999	2002-506666 3/5/2002 12:00:00AM	4435416 08-Jan-2010	Expired
MULTIDIMENSIONAL DETECTION AND CHARACTERIZATION OF PATHOLOGIC TISSUES					

PATENT

REEL: 064093 FRAME: 0559

Patent Status Report by Case Number

Monday, May 15, 2023

Case Number, Sub Case Country Name	Case Type	Application Number Application Date	Publication Number Publication Date	Patent Number Issue Date	STATUS Client Ref
50174-703, 7611 Japan Title: Agent: International Search Authority: Finance Hold:	DIV	2009-223314 19-Mar-1999	2010-029879 2/12/2010 12:00:00AM	4719292 08-Apr-2011	Expired
MULTIDIMENSIONAL DETECTION AND CHARACTERIZATION OF PATHOLOGIC TISSUES					
50174-704, 101 United States of America Title: Agent: International Search Authority: Finance Hold:	PRO	60/185,413 28-Feb-2000			Expired
MULTIDIMENSIONAL BIOELECTRICAL TISSUE ANALYZER					
50174-704, 201 United States of America Title: Agent: International Search Authority: Finance Hold:	ORD	09/794,612 27-Feb-2001	2001-0051774 12/13/2000 12:00:00AM	7,499,745 03-Mar-2009	Abandoned P02
MULTIDIMENSIONAL BIOELECTRICAL TISSUE ANALYZER					
50174-705, 201 United States of America Title: Agent: International Search Authority: Finance Hold:	ORD	09/650,306 23-Aug-2000		6,450,960 17-Sep-2002	Expired P03
REAL-TIME THREE-DIMENSIONAL ACOUSTOELECTRONIC IMAGING AND CHARACTERIZATION OF OBJECTS					
50174-705, 401 United States of America Title: Agent: International Search Authority: Finance Hold:	DIV	10/062,377 25-Feb-2002	2002-0143245 10/3/2002 12:00:00AM	6,540,676 01-Apr-2003	Expired P03D
REAL-TIME THREE-DIMENSIONAL ACOUSTOELECTRONIC IMAGING AND CHARACTERIZATION OF OBJECTS					
International Search Authority: Finance Hold:	No				

Patent Status Report by Case Number

Monday, May 15, 2023

Case Number, Sub Case Country Name	Case Type	Application Number Application Date	Publication Number Publication Date	Patent Number Issue Date	STATUS Client Ref
50174-705, 402 United States of America Title: Agent: International Search Authority: Finance Hold: No	DIV	10/082,856 25-Feb-2002	2002-0138000 9/26/2002 12:00:00AM	6,672,165 06-Jan-2004	Expired P03D
REAL-TIME THREE-DIMENSIONAL ACOUSTOELECTRONIC IMAGING AND CHARACTERIZATION OF OBJECTS					
50174-706, 101 United States of America Title: Agent: International Search Authority: Finance Hold: No	PRO	60/361,022 16-May-2002			Expired
METHOD AND APPARATUS FOR COMBINED DIAGNOSTIC AND THERAPEUTIC ULTRASOUND SYSTEM INCORPORATING NONINVASIVE THERMOMETRY, ABLATION CONTROL AND AUTOMATION					
50174-706, 501 United States of America Title: Agent: International Search Authority: Finance Hold: No	CIP	10/440,427 16-May-2003	2004-0039227 2/12/2004 12:00:00AM	8,376,946 19-Feb-2013	ISSUED P04
METHOD AND APPARATUS FOR COMBINED DIAGNOSTIC AND THERAPEUTIC ULTRASOUND SYSTEM INCORPORATING NONINVASIVE THERMOMETRY, ABLATION CONTROL AND AUTOMATION					
50174-706, 601 Patent Cooperation Treaty Title: Agent: International Search Authority: Finance Hold: No	ORD	PCT/US2003/015511 16-May-2003	2003/096883 11/27/2003 12:00:00AM		30 MO DONE
COMBINED DIAGNOSTIC AND THERAPEUTIC ULTRASOUND SYSTEM					
50174-706, 611 European Patent Convention Title: Agent: International Search Authority: Finance Hold: No	PCT	03753066.4 16-May-2003	1551303 7/13/2005 12:00:00AM		Abandoned
COMBINED DIAGNOSTIC AND THERAPEUTIC ULTRASOUND SYSTEM URQUHART-DYKES & LOI					

Patent Status Report by Case Number

Monday, May 15, 2023

Case Number, Sub Case Country Name	Case Type	Application Number Application Date	Publication Number Publication Date	Patent Number Issue Date	STATUS Client Ref
50174-707, 201 United States of America Title: Agent: International Search Authority: Finance Hold: No	ORD	10/323,354 18-Dec-2002	2004-0122304 6/24/2004 12:00:00AM	7,285,092 23-Oct-2007	ISSUED P05
COMPUTERIZED ULTRASOUND RISK EVALUATION SYSTEM					
50174-708, 201 United States of America Title: Agent: International Search Authority: Finance Hold: No	ORD	10/323,467 18-Dec-2002	2004-0122325 6/24/2004 12:00:00AM	8,884,210 10-Jan-2006	ISSUED P06
DIAGNOSTIC ANALYSIS OF ULTRASOUND DATA					
50174-709, 201 United States of America Title: Agent: International Search Authority: Finance Hold: No	ORD	10/323,718 18-Dec-2002	2004-0122322 6/24/2004 12:00:00AM	6,926,672 09-Aug-2005	Abandoned P07
ELECTRET ACOUSTIC TRANSDUCER ARRAY FOR COMPUTERIZED ULTRASOUND RISK EVALUATION SYSTEM					
50174-710, 201 United States of America Title: Agent: International Search Authority: Finance Hold: No	ORD	10/323,866 18-Dec-2002	2004-0122313 6/24/2004 12:00:00AM	6,837,854 04-Jan-2005	ISSUED P08
METHODS AND SYSTEMS FOR USING REFERENCE IMAGES IN ACOUSTIC IMAGE PROCESSING					
50174-711, 601 Patent Cooperation Treaty Title: Agent: International Search Authority: Finance Hold: No	ORD	PC1/US2003/038575 03-Dec-2003	2004/061575 7/22/2004 12:00:00AM		30 MO DONE P09
COMPUTERIZED ULTRASOUND RISK EVALUATION SYSTEM					
50174-711, 611 European Patent Convention Title: Agent: International Search Authority: Finance Hold: No	PCT	03814647.8 03-Dec-2003	1578274 9/26/2005 12:00:00AM	1578274 12-Jun-2019	Granted
COMPUTERIZED ULTRASOUND RISK EVALUATION SYSTEM Mathys & Squire					
50174-711, 611 European Patent Convention Title: Agent: International Search Authority: Finance Hold: No	PCT	03814647.8 03-Dec-2003	1578274 9/26/2005 12:00:00AM	1578274 12-Jun-2019	Granted
COMPUTERIZED ULTRASOUND RISK EVALUATION SYSTEM Mathys & Squire					

Patent Status Report by Case Number

Page 6 of 31

Monday, May 15, 2023

Case Number, Sub Case Country Name	Case Type	Application Number Application Date	Publication Number Publication Date	Patent Number Issue Date	STATUS Client Ref
50174-711, 621 Germany Title: Agent: International Search Authority: Finance Hold:	EPP	03814647.8 03-Dec-2003	1578274 9/28/2005 12:00:00AM	1578274 12-Jun-2019	Granted
COMPUTERIZED ULTRASOUND RISK EVALUATION SYSTEM Mathys & Squire					
50174-711, 631 France Title: Agent: International Search Authority: Finance Hold:	EPP	03814647.8 03-Dec-2003	1578274 9/28/2005 12:00:00AM	1578274 12-Jun-2019	Granted
COMPUTERIZED ULTRASOUND RISK EVALUATION SYSTEM Mathys & Squire					
50174-711, 641 United Kingdom Title: Agent: International Search Authority: Finance Hold:	EPP	03814647.8 03-Dec-2003	1578274 9/28/2005 12:00:00AM	1578274 12-Jun-2019	Granted
COMPUTERIZED ULTRASOUND RISK EVALUATION SYSTEM Mathys & Squire					
50174-711, 761 Japan Title: Agent: International Search Authority: Finance Hold:	PCT	2004-55201 03-Dec-2003	2006-511298 4/6/2006 12:00:00AM	4509802 14-May-2010	Granted
COMPUTERIZED ULTRASOUND RISK EVALUATION SYSTEM					
50174-711, 7611 Japan Title: Agent: International Search Authority: Finance Hold:	DIV	2006-326262 03-Dec-2003	2007-090085 4/12/2007 12:00:00AM		Abandoned
COMPUTERIZED ULTRASOUND RISK EVALUATION SYSTEM					
50174-712, 101 United States of America Title: Agent: International Search Authority: Finance Hold:	PRO	60/901,903 16-Feb-2007			Expired
SUPER-RESOLUTION ULTRASOUND TOMOGRAPHY - IMAGING BEYOND THE BORN APPROXIMATION					

PATENT

REEL: 064093 FRAME: 0563

Patent Status Report by Case Number

Page 7 of 31

Monday, May 15, 2023

Case Number, Sub Case Country Name	Case Type	Application Number Application Date	Publication Number Publication Date	Patent Number Issue Date	STATUS Client Ref
50174-712, 201 United States of America Title: Agent: International Search Authority: Finance Hold:	ORD	12/033,789 19-Feb-2008	2008-0228832 9/25/2008 12:00:00AM		Abandoned P11
AUTOMATIC TIME-OF-FLIGHT SELECTION FOR ULTRASOUND TOMOGRAPHY					
50174-713, 101 United States of America Title: Agent: International Search Authority: Finance Hold:	PRO	60/915,946 04-May-2007			Expired
EVALUATING BREAST DENSITY USING ULTRASOUND					
50174-713, 201 United States of America Title: Agent: International Search Authority: Finance Hold:	ORD	12/115,174 05-May-2008	2008-0375344 11/6/2008 12:00:00AM	8,870,771 28-Oct-2014	ISSUED P12
METHOD AND APPARATUS FOR CATEGORIZING BREAST DENSITY AND ASSESSING CANCER RISK UTILIZING ACOUSTIC PARAMETERS					
50174-713, 301 United States of America Title: Agent: International Search Authority: Finance Hold:	CON	16/212,760 07-Dec-2018	US-2019-0142367-A1 5/16/2019 12:00:00AM		FINAL REJ P23CIP
PATIENT INTERFACE SYSTEM					
50174-713, 501 United States of America Title: Agent: International Search Authority: Finance Hold:	CIP	14/486,551 15-Sep-2014	2015-0005635 1/1/2015 12:00:00AM	10,201,324 12-Feb-2019	ISSUED P23CIP
PATIENT INTERFACE SYSTEM					
50174-714, 101 United States of America Title: Agent: International Search Authority: Finance Hold:	PRO	61/289,154 22-Dec-2009			Expired
ACCURATE AND ROBUST ARRAY CALIBRATION USING TIME DELAYS					
50174-714, 201 United States of America Title: Agent: International Search Authority: Finance Hold:					

PATENT

REEL: 064093 FRAME: 0564

Patent Status Report by Case Number

Monday, May 15, 2023

Case Number, Sub Case Country Name	Case Type	Application Number Application Date	Publication Number Publication Date	Patent Number Issue Date	STATUS Client Ref
50174-714, 201 United States of America Title: Agent: International Search Authority: Finance Hold: No	ORD	12/976,462 22-Dec-2010	2011-0148371 6/23/2011 12:00:00AM	8,532,951 10-Sep-2013	ISSUED P13
METHOD FOR CALIBRATING A TRANSDUCER ARRAY					
50174-714, 601 Patent Cooperation Treaty Title: Agent: International Search Authority: Finance Hold: No	ORD	PCT/US2010/061926 22-Dec-2010			WITHDRAWN
ACCURATE AND ROBUST ARRAY CALIBRATION USING TIME DELAYS					
50174-715, 101 United States of America Title: Agent: International Search Authority: Finance Hold: No	PRO	61/304,256 12-Feb-2010			Expired
MONITORING AND PREDICTING PATHOLOGICAL RESPONSE TO A CANCER TREATMENT					
50174-715, 201 United States of America Title: Agent: International Search Authority: Finance Hold: No	ORD	13/077,036 14-Feb-2011	2011-0201928 8/18/2011 12:00:00AM	9,144,403 29-Sep-2015	ISSUED P14
METHOD OF CHARACTERIZING THE PATHOLOGICAL RESPONSE OF TISSUE TO A TREATMENT PLAN					
50174-715, 301 United States of America Title: Agent: International Search Authority: Finance Hold: No	CON	14/835,349 25-Aug-2015	2015-0359508 12/17/2015 12:00:00AM	10,278,672 07-May-2019	ISSUED P14C
METHOD OF CHARACTERIZING THE PATHOLOGICAL RESPONSE OF TISSUE TO A TREATMENT PLAN					
50174-715, 301 United States of America Title: Agent: International Search Authority: Finance Hold: No					

Patent Status Report by Case Number

Page 9 of 31

Monday, May 15, 2023

Case Number, Sub Case Country Name	Case Type	Application Number Application Date	Publication Number Publication Date	Patent Number Issue Date	STATUS Client Ref
50174-715, 302 United States of America Title: Agent: International Search Authority: Finance Hold:	CON	16/367,362 28-Mar-2019	US-2020-0015775-A1 1/16/2020 12:00:00AM		Abandoned P14C
METHOD OF CHARACTERIZING THE PATHOLOGICAL RESPONSE OF TISSUE TO A TREATMENT PLAN					
50174-715, 601 Patent Cooperation Treaty Title: Agent: International Search Authority: Finance Hold:	ORD	PCT/US2011/024765 14-Feb-2011	2011/100691 8/18/2011 12:00:00AM		30 MO DONE
METHOD OF CHARACTERIZING THE PATHOLOGICAL RESPONSE OF TISSUE TO A TREATMENT PLAN					
50174-715, 811 European Patent Convention Title: Agent: International Search Authority: Finance Hold:	PCT	11742965.4 14-Feb-2011	2533683 12/19/2012 12:00:00AM		Abandoned
METHOD OF CHARACTERIZING THE PATHOLOGICAL RESPONSE OF TISSUE TO A TREATMENT PLAN URQUHART-DYKES & LO					
50174-715, 711 China (People's Republic) Title: Agent: International Search Authority: Finance Hold:	PCT	201180008170.0 14-Feb-2011	102843958A 12/26/2012 12:00:00AM	102843959 12-Nov-2014	Granted
METHOD OF CHARACTERIZING THE PATHOLOGICAL RESPONSE OF TISSUE TO A TREATMENT PLAN					
50174-715, 761 Japan Title: Agent: International Search Authority: Finance Hold:	PCT	2012-553077 14-Feb-2011	2013-519454 5/30/2013 12:00:00AM		Abandoned
METHOD OF CHARACTERIZING THE PATHOLOGICAL RESPONSE OF TISSUE TO A TREATMENT PLAN					
50174-715, 761 Japan Title: Agent: International Search Authority: Finance Hold:	PCT	2012-553077 14-Feb-2011	2013-519454 5/30/2013 12:00:00AM		Abandoned
METHOD OF CHARACTERIZING THE PATHOLOGICAL RESPONSE OF TISSUE TO A TREATMENT PLAN					

PATENT

REEL: 064093 FRAME: 0566

Patent Status Report by Case Number

Monday, May 15, 2023

Case Number, Sub Case Country Name	Case Type	Application Number Application Date	Publication Number Publication Date	Patent Number Issue Date	STATUS Client Ref
50174-716, 101 United States of America Title: Agent: International Search Authority: Finance Hold: No METHOD OF CHARACTERIZING TISSUE MASSES	PRO	61/304,360 12-Feb-2010			Expired
50174-716, 201 United States of America Title: Agent: International Search Authority: Finance Hold: No METHOD OF CHARACTERIZING BREAST TISSUE USING MULTIPLE ULTRASOUND RENDERINGS	ORD	13/027,070 14-Feb-2011	2011-0201932 8/18/2011 12:00:00AM	8,876,716 04-Nov-2014	ISSUED P15
50174-716, 301 United States of America Title: Agent: International Search Authority: Finance Hold: No METHOD OF CHARACTERIZING TISSUE OF A PATIENT	CON	14/755,618 30-Jun-2015	2015-0097174 10/22/2015 12:00:00AM	9,814,441 14-Nov-2017	ISSUED
50174-716, 302 United States of America Title: Agent: International Search Authority: Finance Hold: No METHOD OF CHARACTERIZING TISSUE OF A PATIENT	CON	15/773,000 12-Oct-2017	US 2018-0125447 A1 5/10/2018 12:00:00AM	10,231,696 19-Mar-2019	ISSUED P15C
50174-716, 303 United States of America Title: Agent: International Search Authority: Finance Hold: No METHOD OF CHARACTERIZING TISSUE OF A PATIENT	CON	16/217,275 12-Dec-2018	US-2019-0150885-A1 5/23/2019 12:00:00AM	11,399,798 02-Aug-2022	ISSUED P15C
50174-716, 304 United States of America Title: Agent: International Search Authority: Finance Hold: No METHOD OF CHARACTERIZING TISSUE OF A PATIENT	CON	17/651,650 28-Jun-2022	US-2023-0089236-A1 3/23/2023 12:00:00AM		Published P15C

Patent Status Report by Case Number

Page 11 of 31

Monday, May 15, 2023

Case Number, Sub Case Country Name	Case Type	Application Number Application Date	Publication Number Publication Date	Patent Number Issue Date	STATUS Client Ref
50174-716, 401 United States of America Title: Agent: International Search Authority: Finance Hold:	DIV	13711,377 11-Dec-2012	2014-0068760 3/6/2014 12:00:00AM	9,101,290 11-Aug-2015	ISSUED P14D
METHOD OF CHARACTERIZING BREAST TISSUE USING MULTIPLE CONTRAST ENHANCED ULTRASOUND RENDERINGS					
50174-716, 601 Patent Cooperation Treaty Title: Agent: International Search Authority: Finance Hold:	ORD	PCT/US2011/024773 14-Feb-2011	2011/100897 8/18/2011 12:00:00AM		30 MO DONE
METHOD OF CHARACTERIZING TISSUE OF A PATIENT					
50174-716, 611 European Patent Convention Title: Agent: International Search Authority: Finance Hold:	PCT	11742970.4 14-Feb-2011	2533684 12/19/2012 12:00:00AM	2533684 16-Jun-2021	Granted
METHOD OF CHARACTERIZING TISSUE OF A PATIENT					
50174-716, 621 Germany Title: Agent: International Search Authority: Finance Hold:	EPP	11742970.4 14-Feb-2011	2533684 12/19/2012 12:00:00AM	2533684 16-Jun-2021	Granted
METHOD OF CHARACTERIZING TISSUE OF A PATIENT					
50174-716, 631 France Title: Agent: International Search Authority: Finance Hold:	EPP	11742970.4 14-Feb-2011	2533684 12/19/2012 12:00:00AM	2533684 16-Jun-2021	Granted
METHOD OF CHARACTERIZING TISSUE OF A PATIENT					
50174-716, 641 United Kingdom Title: Agent: International Search Authority: Finance Hold:	EPP	11742970.4 14-Feb-2011	2533684 12/19/2012 12:00:00AM	2533684 16-Jun-2021	Granted
METHOD OF CHARACTERIZING TISSUE OF A PATIENT					

PATENT

REEL: 064093 FRAME: 0568

Patent Status Report by Case Number

Page 12 of 31

Monday, May 15, 2023

Case Number, Sub Case Country Name	Case Type	Application Number Application Date	Publication Number Publication Date	Patent Number Issue Date	STATUS Client Ref
50174-716, 711 China (People's Republic) Title: Agent: International Search Authority: Finance Hold:	PCT	201180009372.5 14-Feb-2011	102869301A 1/9/2013 12:00:00AM	ZL 201180009372.5 29-Jun-2016	Granted
METHOD OF CHARACTERIZING TISSUE OF A PATIENT AFD China Intellectual Prop					
No					
50174-716, 761 Japan Title: Agent: International Search Authority: Finance Hold:	PCT	2012-553079 14-Feb-2011	2013-519455 5/30/2013 12:00:00AM		Abandoned
METHOD OF CHARACTERIZING TISSUE OF A PATIENT					
No					
50174-717, 101 United States of America Title: Agent: International Search Authority: Finance Hold:	PRO	61/440,530 08-Feb-2011			Expired
METHOD FOR IMAGING A VOLUME OF TISSUE WITH DOUBLE DIFFERENCE TOMOGRAPHY					
No					
50174-717, 201 United States of America Title: Agent: International Search Authority: Finance Hold:	ORD	13/359,169 07-Feb-2012	2012-0283566 11/8/2012 12:00:00AM	9,113,835 25-Aug-2015	TO BE ABAND
SYSTEM AND METHOD FOR GENERATING A RENDERING OF A VOLUME OF TISSUE BASED UPON DIFFERENTIAL TIME-OF-FLIGHT DATA					
No					
50174-718, 201 United States of America Title: Agent: International Search Authority: Finance Hold:	ORD	13/208,193 11-Aug-2011	2013-0041260 2/14/2013 12:00:00AM	8,663,113 04-Mar-2014	ISSUED P17
METHOD FOR IMAGING A VOLUME OF TISSUE					
No					
50174-718, 601 Patent Cooperation Treaty Title: Agent: International Search Authority: Finance Hold:	ORD	PCT/US2011/047463 11-Aug-2011	2013/022454 2/14/2013 12:00:00AM		closed
METHOD FOR IMAGING A VOLUME OF TISSUE					
No					

PATENT

REEL: 064093 FRAME: 0569

Patent Status Report by Case Number

Page 13 of 31

Monday, May 15, 2023

Case Number, Sub Case Country Name	Case Type	Application Number Application Date	Publication Number Publication Date	Patent Number Issue Date	STATUS Client Ref
50174-719, 101 United States of America Title: Agent: International Search Authority: Finance Hold:	PRO	61/522,598 11-Aug-2011	MULTI-GRID TOMOGRAPHIC INVERSION FOR BREAST ULTRASOUND SOUND SPEED IMAGING		
No					Expired
50174-719, 102 United States of America Title: Agent: International Search Authority: Finance Hold:	PRO	61/594,864 03-Feb-2012	MULTI-GRID TOMOGRAPHIC INVERSION FOR BREAST ULTRASOUND IMAGING		
No					Expired
50174-719, 201 United States of America Title: Agent: International Search Authority: Finance Hold:	ORD	13/566,778 03-Aug-2012	2013-0041261 2/14/2013 12:00:00AM	METHOD AND SYSTEM FOR MULTI-GRID TOMOGRAPHIC INVERSION TISSUE IMAGING	
No					Abandoned P18
50174-720, 101 United States of America Title: Agent: International Search Authority: Finance Hold:	PRO	61/522,877 03-Feb-2012	BREAST ULTRASOUND TOMOGRAPHY		
No					Expired
50174-720, 102 United States of America Title: Agent: International Search Authority: Finance Hold:	PRO	61/643,431 07-May-2012	SYSTEM AND METHOD FOR IMAGING A VOLUME OF TISSUE		
No					Expired P19
50174-720, 201 United States of America Title: Agent: International Search Authority: Finance Hold:	ORD	13/756,851 01-Feb-2013	2013-0204136 8/8/2013 12:00:00AM	SYSTEM AND METHOD FOR IMAGING A VOLUME OF TISSUE	
No					Abandoned

PATENT

REEL: 064093 FRAME: 0570

Patent Status Report by Case Number

Monday, May 15, 2023

Case Number, Sub Case Country Name	Case Type	Application Number Application Date	Publication Number Publication Date	Patent Number Issue Date	STATUS Client Ref
50174-721, 101 United States of America Title: Agent: International Search Authority: Finance Hold: No	PRO	61/594,879 03-Feb-2012			Expired P20
TRAVEL TIME DENOISING IN ULTRASOUND TOMOGRAPHY					
50174-721, 102 United States of America Title: Agent: International Search Authority: Finance Hold: No	PRO	61/636,827 23-Apr-2012			Expired
METHOD AND SYSTEM FOR DENOISING ACOUSTIC TRAVEL TIMES AND IMAGING A VOLUME OF TISSUE					
50174-721, 201 United States of America Title: Agent: International Search Authority: Finance Hold: No	ORD	13/756,864 01-Feb-2013	2013-0200037 8/8/2013 12:00:00AM		Abandoned
METHOD AND SYSTEM FOR DENOISING ACOUSTIC TRAVEL TIMES AND IMAGING A VOLUME OF TISSUE					
50174-722, 101 United States of America Title: Agent: International Search Authority: Finance Hold: No	PRO	61/646,671 14-May-2012			Expired
SYSTEM AND METHOD FOR PERFORMING AN IMAGE-GUIDED BIOPSY					
50174-722, 201 United States of America Title: Agent: International Search Authority: Finance Hold: No	ORD	13/894,202 14-May-2013	2013-0303895 11/14/2013 12:00:00AM		Abandoned P21
SYSTEM AND METHOD FOR PERFORMING AN IMAGE-GUIDED BIOPSY					

PATENT

REEL: 064093 FRAME: 0571

Patent Status Report by Case Number

Monday, May 15, 2023

Case Number, Sub Case Country Name	Case Type	Application Number Application Date	Publication Number Publication Date	Patent Number Issue Date	STATUS Client Ref
50174-722, 601 Patent Cooperation Treaty Title: Agent: International Search Authority: Finance Hold: No	ORD	PCT/US2013/040994 14-May-2013	2013/173369 5/14/2013 12:00:00AM		closed
SYSTEM AND METHOD FOR PERFORMING AN IMAGE-GUIDED BIOPSY					
50174-723, 101 United States of America Title: Agent: International Search Authority: Finance Hold: No	PRO	61/694,999 30-Aug-2012			Expired
METHOD AND SYSTEM FOR IMAGING A VOLUME OF TISSUE WITH TISSUE BOUNDARY DETECTION					
50174-723, 201 United States of America Title: Agent: International Search Authority: Finance Hold: No	ORD	14/015,459 30-Aug-2013	2014-0066372 3/6/2014 12:00:00AM	9,763,641 19-Sep-2017	ISSUED P22
METHOD AND SYSTEM FOR IMAGING A VOLUME OF TISSUE WITH TISSUE BOUNDARY DETECTION					
50174-724, 101 United States of America Title: Agent: International Search Authority: Finance Hold: No	PRO	61/778,985 13-Mar-2013			Expired
PATIENT INTERFACE SYSTEM					
50174-724, 201 United States of America Title: Agent: International Search Authority: Finance Hold: No	ORD	14/208,181 13-Mar-2014	2014-0276068 9/18/2014 12:00:00AM	10,123,770 13-Nov-2018	ISSUED P23
PATIENT SUPPORT SYSTEM					
50174-724, 301 United States of America Title: Agent: International Search Authority: Finance Hold: No	ORD	14/208,181 13-Mar-2014	2014-0276068 9/18/2014 12:00:00AM	10,123,770 13-Nov-2018	ISSUED P23
PATIENT SUPPORT SYSTEM					

PATENT

REEL: 064093 FRAME: 0572

Patent Status Report by Case Number

Monday, May 15, 2023

Case Number, Sub Case Country Name	Case Type	Application Number Application Date	Publication Number Publication Date	Patent Number Issue Date	STATUS Client Ref
50174-724, 301 United States of America Title: Agent: International Search Authority: Finance Hold: No	CON	16/155,276 09-Oct-2018	US 2019-0038255 A1 27/2019 12:00:00AM	11,064,974 20-Jul-2021	ISSUED P23
PATIENT INTERFACE SYSTEM					
50174-725, 101 United States of America Title: Agent: International Search Authority: Finance Hold: No	PRO	62/033,265 05-Aug-2014			Expired
METHOD FOR GENERATING AN ENHANCED IMAGE OF A VOLUME OF TISSUE					
50174-725, 201 United States of America Title: Agent: International Search Authority: Finance Hold: No	ORD	14/819,091 05-Aug-2015	2016-0038123 2/11/2016 12:00:00AM	10,285,667 14-May-2019	ISSUED P24
METHOD FOR GENERATING AN ENHANCED IMAGE OF A VOLUME OF TISSUE					
50174-725, 301 United States of America Title: Agent: International Search Authority: Finance Hold: No	CON	16/369,986 23-Mar-2019	US-2020-0015786-A1 1/16/2020 12:00:00AM	11,298,111 12-Apr-2022	ISSUED P24
METHOD FOR GENERATING AN ENHANCED IMAGE OF A VOLUME OF TISSUE					
50174-726, 101 United States of America Title: Agent: International Search Authority: Finance Hold: No	PRO	61/968,308 05-May-2014			Expired
METHOD AND SYSTEM FOR MEASURING TISSUE STIFFNESS					
50174-726, 102 United States of America Title: Agent: International Search Authority: Finance Hold: No	PRO	62/047,523 08-Sep-2014			Expired
METHOD AND SYSTEM FOR MEASURING TISSUE STIFFNESS					

PATENT

REEL: 064093 FRAME: 0573

Patent Status Report by Case Number

Monday, May 15, 2023

Case Number, Sub Case Country Name	Case Type	Application Number Application Date	Publication Number Publication Date	Patent Number Issue Date	STATUS Client Ref
50174-726, 201 United States of America Title: Agent: International Search Authority: Finance Hold: No METHOD FOR REPRESENTING TISSUE STIFFNESS	ORD	14/703,746 04-May-2015	2015-0313577 11/5/2015 12:00:00AM	10,143,443 04-Dec-2018	ISSUED P25
50174-726, 401 United States of America Title: Agent: International Search Authority: Finance Hold: No METHOD FOR REPRESENTING TISSUE STIFFNESS	DIV	16/182,715 07-Nov-2018	US-2019-0117194-A1 4/25/2019 12:00:00AM	11,147,537 19-Oct-2021	ISSUED P25
50174-727, 101 United States of America Title: Agent: International Search Authority: Finance Hold: No SYSTEM FOR PROVIDING SCANNING MEDIUM	PRO	62/029,696 28-Jul-2014			Expired
50174-727, 201 United States of America Title: Agent: International Search Authority: Finance Hold: No SYSTEM FOR PROVIDING SCANNING MEDIUM	ORD	14/819,316 28-Jul-2015	2016-0022245 1/28/2016 12:00:00AM	10,076,304 18-Sep-2018	ISSUED P26
50174-727, 301 United States of America Title: Agent: International Search Authority: Finance Hold: No SYSTEM FOR PROVIDING SCANNING MEDIUM	CON	16/285,778 26-Feb-2019	US-2020-0205778-A1 7/2/2020 12:00:00AM		Abandoned
50174-727, 401 United States of America Title: Agent: International Search Authority: Finance Hold: No SYSTEM FOR PROVIDING SCANNING MEDIUM	DIV	16/113,863 27-Aug-2018	US 2019-0008478 A1 1/10/2019 12:00:00AM	10,251,622 09-Apr-2019	ISSUED
50174-727, 501 United States of America Title: Agent: International Search Authority: Finance Hold: No SYSTEM FOR PROVIDING SCANNING MEDIUM					

Patent Status Report by Case Number

Monday, May 15, 2023

Page 18 of 31

Case Number, Sub Case Country Name	Case Type	Application Number Application Date	Publication Number Publication Date	Patent Number Issue Date	STATUS Client Ref
50174-728, 101 United States of America Title: Agent: International Search Authority: Finance Hold: No	PRO	62/032,939 04-Aug-2014			Expired
FREQUENCY DOMAIN ULTRASOUND WAVEFORM TOMOGRAPHY METHOD AND SYSTEM					
50174-728, 102 United States of America Title: Agent: International Search Authority: Finance Hold: No	PRO	62/094,774 19-Dec-2014			Expired
FREQUENCY DOMAIN ULTRASOUND WAVEFORM TOMOGRAPHY METHOD AND SYSTEM					
50174-728, 103 United States of America Title: Agent: International Search Authority: Finance Hold: No	PRO	62/109,370 29-Jan-2015			Expired
FREQUENCY DOMAIN ULTRASOUND WAVEFORM TOMOGRAPHY METHOD AND SYSTEM					
50174-728, 201 United States of America Title: Agent: International Search Authority: Finance Hold: No	ORD	14/877,470 01-Aug-2015	2016-0030000 2/4/2016 12:00:00AM	10,743,837 18-Aug-2020	ISSUED P27
ULTRASOUND WAVEFORM TOMOGRAPHY METHOD AND SYSTEM					
50174-728, 301 United States of America Title: Agent: International Search Authority: Finance Hold: No	CON	16/928,498 14-Jul-2020			Abandoned P27
FREQUENCY DOMAIN ULTRASOUND WAVEFORM TOMOGRAPHY METHOD AND SYSTEM					
50174-730, 101 United States of America Title: Agent: International Search Authority: Finance Hold: No	PRO	62/212,971 01-Sep-2015			Expired
ULTRASOUND BREAST IMAGING USING FREQUENCY DOMAIN REVERSE TIME MIGRATION					

Patent Status Report by Case Number

Monday, May 15, 2023

Case Number, Sub Case Country Name	Case Type	Application Number Application Date	Publication Number Publication Date	Patent Number Issue Date	STATUS Client Ref
50174-730, 102 United States of America Title: Agent: International Search Authority: Finance Hold: No	PRO	62/290,104 02-Feb-2016			EXPIRED
ULTRASOUND BREAST IMAGING USING FREQUENCY DOMAIN REVERSE TIME MIGRATION					
50174-730, 201 United States of America Title: Agent: International Search Authority: Finance Hold: No	ORD				Closed
ULTRASOUND BREAST IMAGING USING FREQUENCY DOMAIN REVERSE TIME MIGRATION					
50174-731, 101 United States of America Title: Agent: International Search Authority: Finance Hold: No	PRO	62/212,977 01-Sep-2015			Expired
ULTRASOUND TOMOGRAPHY DENSITY DISTRIBUTION DETERMINATION METHOD AND SYSTEM					
50174-731, 102 United States of America Title: Agent: International Search Authority: Finance Hold: No	PRO	62/293,939 01-Feb-2016			EXPIRED
USING ULTRASOUND TOMOGRAPHY TO IDENTIFY THE DISTRIBUTIONS OF DENSITY THROUGHOUT THE BREAST					
50174-731, 201 United States of America Title: Agent: International Search Authority: Finance Hold: No	ORD				Closed
ULTRASOUND TOMOGRAPHY DENSITY DISTRIBUTION DETERMINATION METHOD AND SYSTEM					
50174-731, 201 United States of America Title: Agent: International Search Authority: Finance Hold: No					

Patent Status Report by Case Number

Monday, May 15, 2023

Case Number, Sub Case Country Name	Case Type	Application Number Application Date	Publication Number Publication Date	Patent Number Issue Date	STATUS Client Ref
50174-732, 101 United States of America Title: Agent: International Search Authority: Finance Hold: No	PRO	62/212,983 01-Sep-2015			Expired
FREQUENCY DOMAIN ULTRASOUND WAVEFORM TOMOGRAPHY METHOD AND SYSTEM					
50174-732, 102 United States of America Title: Agent: International Search Authority: Finance Hold: No	PRO	62/294,360 12-Feb-2016			Expired
FREQUENCY-DOMAIN ULTRASOUND WAVEFORM TOMOGRAPHY BREAST ATTENUATION IMAGING					
50174-732, 201 United States of America Title: Agent: International Search Authority: Finance Hold: No	ORD				Closed
FREQUENCY DOMAIN ULTRASOUND WAVEFORM TOMOGRAPHY METHOD AND SYSTEM					
50174-732, 301 United States of America Title: Agent: International Search Authority: Finance Hold: No	CON	15/609,661 01-Mar-2018	US-2018-0185005-A1 7/5/2018 12:00:00AM	11,071,520 27-Jul-2021	TO BE ABAND P27C
TISSUE IMAGING AND ANALYSIS USING ULTRASOUND WAVEFORM TOMOGRAPHY					
50174-732, 601 Patent Cooperation Treaty Title: Agent: International Search Authority: Finance Hold: No	ORD	PC1/US2016/050014 01-Sep-2016	2017/040866 3/9/2017 12:00:00AM		30 MO DONE
TISSUE IMAGING AND ANALYSIS USING ULTRASOUND WAVEFORM TOMOGRAPHY					
50174-732, 611 European Patent Convention Title: Agent: International Search Authority: Finance Hold: No	PCT	16843031.2 01-Sep-2016	3344149 7/11/2018 12:00:00AM	3344149 03-Mar-2021	Granted
TISSUE IMAGING AND ANALYSIS USING ULTRASOUND WAVEFORM TOMOGRAPHY Mathys & Squire					
50174-732, 611 European Patent Convention Title: Agent: International Search Authority: Finance Hold: No	PCT	16843031.2 01-Sep-2016	3344149 7/11/2018 12:00:00AM	3344149 03-Mar-2021	Granted
TISSUE IMAGING AND ANALYSIS USING ULTRASOUND WAVEFORM TOMOGRAPHY					

Patent Status Report by Case Number

Monday, May 15, 2023

Case Number, Sub Case Country Name	Case Type	Application Number Application Date	Publication Number Publication Date	Patent Number Issue Date	STATUS Client Ref
50174-732, 621 Germany Title: Agent: International Search Authority: Finance Hold:	EPP	16843031.2 01-Sep-2016	3344149 7/11/2018 12:00:00AM	3344149 03-Mar-2021	Granted
TISSUE IMAGING AND ANALYSIS USING ULTRASOUND WAVEFORM TOMOGRAPHY Mathys & Squire					
50174-732, 631 France Title: Agent: International Search Authority: Finance Hold:	EPP	16843031.2 01-Sep-2016	3344149 7/11/2018 12:00:00AM	3344149 03-Mar-2021	Granted
TISSUE IMAGING AND ANALYSIS USING ULTRASOUND WAVEFORM TOMOGRAPHY Mathys & Squire					
50174-732, 641 United Kingdom Title: Agent: International Search Authority: Finance Hold:	EPP	16843031.2 01-Sep-2016	3344149 7/11/2018 12:00:00AM	3344149 03-Mar-2021	Granted
TISSUE IMAGING AND ANALYSIS USING ULTRASOUND WAVEFORM TOMOGRAPHY Mathys & Squire					
50174-732, 711 China (People's Republic) Title: Agent: International Search Authority: Finance Hold:	PCT	20160062053.3 01-Sep-2016	108348221 7/31/2018 12:00:00AM	108348221 19-Feb-2021	Granted
TISSUE IMAGING AND ANALYSIS USING ULTRASOUND WAVEFORM TOMOGRAPHY AFD China Intellectual Property					
50174-732, 761 Japan Title: Agent: International Search Authority: Finance Hold:	PCT	2018-512330 01-Sep-2016	2018-528829 10/4/2018 12:00:00AM	7085470 08-Jun-2022	Granted
TISSUE IMAGING AND ANALYSIS USING ULTRASOUND WAVEFORM TOMOGRAPHY Shusaku Yamamoto Patent					
50174-733, 101 United States of America Title: Agent: International Search Authority: Finance Hold:	PRO	62/293,071 09-Feb-2016	SYSTEM FOR POSITIONING A TISSUE BODY		
Expired					

Patent Status Report by Case Number

Monday, May 15, 2023

Case Number, Sub Case Country Name	Case Type	Application Number Application Date	Publication Number Publication Date	Patent Number Issue Date	STATUS Client Ref
50174-733, 102 United States of America Title: Agent: International Search Authority: Finance Hold:	PRO	62/555,255 07-Sep-2017			Expired P28
SYSTEM HAVING ANCHORED INTERFACE FOR SHAPING AND POSITIONING A TISSUE BODY					
50174-733, 201 United States of America Title: Agent: International Search Authority: Finance Hold:	ORD	15/427,857 08-Feb-2017	2017-0224305 8/10/2017 12:00:00AM	10,898,164 26-Jan-2021	ISSUED P29
SYSTEM FOR SHAPING AND POSITIONING A TISSUE BODY					
50174-733, 202 United States of America Title: Agent: International Search Authority: Finance Hold:	ORD	16/123,881 06-Sep-2018	US-2019-0083000-A1 3/21/2019 12:00:00AM	11,298,105 12-Apr-2022	ISSUED
SYSTEM HAVING ANCHORED INTERFACE FOR SHAPING AND POSITIONING A TISSUE BODY					
50174-733, 601 Patent Cooperation Treaty Title: Agent: International Search Authority: Finance Hold:	ORD	PCT/US2017/017035 08-Feb-2017	2017/139389 8/17/2017 12:00:00AM		30 MO DONE
SYSTEM FOR SHAPING AND POSITIONING A TISSUE BODY					
50174-733, 611 European Patent Convention Title: Agent: International Search Authority: Finance Hold:	PCT	17750704.3 08-Feb-2017	3413802 12/19/2018 12:00:00AM		Published
SYSTEM FOR SHAPING AND POSITIONING A TISSUE BODY Mainys & Squire					
50174-733, 711 China (People's Republic) Title: Agent: International Search Authority: Finance Hold:	PCT	201780022573.6 08-Feb-2017	108882911 11/23/2018 12:00:00AM	ZL201780022573.6 08-Apr-2022	Granted
SYSTEM FOR SHAPING AND POSITIONING A TISSUE BODY AFD China Intellectual Prop					
International Search Authority: Finance Hold:	No				

Patent Status Report by Case Number

Monday, May 15, 2023

Case Number, Sub Case Country Name	Case Type	Application Number Application Date	Publication Number Publication Date	Patent Number Issue Date	STATUS Client Ref
50174-733, 761 Japan Title: Agent: International Search Authority: Finance Hold:	PCT	2018-560736 08-Feb-2017	2018-504742 2/21/2019 12:00:00AM	6957519 08-Oct-2021	Granted
SYSTEM FOR SHAPING AND POSITIONING A TISSUE BODY Shusaku Yamamoto Patent					
No					
50174-734, 101 United States of America Title: Agent: International Search Authority: Finance Hold:	PRO	62/348,105 09-Jun-2016			Expired
BREAST IMAGE SEGMENTATION USING ITERATIVE BOUNDING					
No					
50174-735, 101 United States of America Title: Agent: International Search Authority: Finance Hold:	PRO	62/429,542 02-Dec-2016			Expired
WAVEFORM-ENHANCED REFLECTION FOR ULTRASOUND TOMOGRAPHY					
No					
50174-735, 201 United States of America Title: Agent: International Search Authority: Finance Hold:	ORD	15/872,746 01-Dec-2017	US 2018-0153502 A1 6/7/2018 12:00:00AM	10,368,831 06-Aug-2019	ISSUED P30
WAVEFORM ENHANCED REFLECTION AND MARGIN BOUNDARY CHARACTERIZATION FOR ULTRASOUND TOMOGRAPHY					
No					
50174-735, 301 United States of America Title: Agent: International Search Authority: Finance Hold:	CON	16/443,993 18-Jun-2019	US-2020-0022672-A1 1/23/2020 12:00:00AM	11,350,905 07-Jun-2022	ISSUED P30
WAVEFORM ENHANCED REFLECTION AND MARGIN BOUNDARY CHARACTERIZATION FOR ULTRASOUND TOMOGRAPHY					
No					

Patent Status Report by Case Number
Monday, May 15, 2023
Page 24 of 31

Case Number, Sub Case Country Name	Case Type	Application Number Application Date	Publication Number Publication Date	Patent Number Issue Date	STATUS Client Ref
50174-735, 601 Patent Cooperation Treaty Title: Agent: International Search Authority: Finance Hold: No	ORD	PCT/US2017/064350 01-Dec-2017	WO 2018/102776 6/7/2018 12:00:00AM		30 MO DONE
50174-735, 611 European Patent Convention Title: Agent: International Search Authority: Finance Hold: Yes	PCT	17876240.7 01-Dec-2017	3547924 10/9/2019 12:00:00AM		Published
50174-735, 701 Canada Title: Agent: International Search Authority: Finance Hold: Yes	PCT				closed
50174-735, 711 China (People's Republic) Title: Agent: International Search Authority: Finance Hold: Yes	PCT	201760085489.9 01-Dec-2017	110430819 11/8/2019 12:00:00AM	ZL2017600854899 23-Aug-2022	Granted
50174-735, 761 Japan Title: Agent: International Search Authority: Finance Hold: Yes	PCT	2019-529582 01-Dec-2017	2020-501648 1/23/2020 12:00:00AM		TO BE ABAND

Patent Status Report by Case Number

Monday, May 15, 2023

Case Number, Sub Case Country Name	Case Type	Application Number Application Date	Publication Number Publication Date	Patent Number Issue Date	STATUS Client Ref
50174-736, 101 United States of America Title: Agent: International Search Authority: Finance Hold: No	PRO	62/429,563 02-Dec-2016	MARGIN BOUNDARY CHARACTERIZATION AND REGION OF INTEREST DIAGNOSTICS FOR ULTRASOUND TOMOGRAPHY		
50174-737, 101 United States of America Title: Agent: International Search Authority: Finance Hold: No	PRO	62/677,570 29-May-2018	TOMOGRAPHIC COMPENSATION TECHNIQUES FOR REFLECTION IMAGING		
50174-737, 601 Patent Cooperation Treaty Title: Agent: International Search Authority: Finance Hold: No	ORD	PCT/US2019/034469 29-May-2019	SYSTEMS AND METHODS FOR DUAL-FREQUENCY TRANSDUCERS		
50174-738, 101 United States of America Title: Agent: International Search Authority: Finance Hold: No	PRO	62/664,038 27-Apr-2018	SYSTEM AND METHOD FOR FEATURE EXTRACTION AND CLASSIFICATION ON ULTRASOUND TOMOGRAPHY IMAGES		
50174-738, 102 United States of America Title: Agent: International Search Authority: Finance Hold: No	PRO	62/638,174 24-Apr-2019	SYSTEM AND METHOD FOR FEATURE EXTRACTION AND CLASSIFICATION ON ULTRASOUND TOMOGRAPHY IMAGES		

Expired

EXPIRED

WITHDREW

Expired
P31

EXPIRED
P31

Patent Status Report by Case Number

Monday, May 15, 2023

Case Number, Sub Case Country Name	Case Type	Application Number Application Date	Publication Number Publication Date	Patent Number Issue Date	STATUS Client Ref
50174-738, 301 United States of America Title: Agent: International Search Authority: Finance Hold: No	CON	17/076,384 21-Oct-2020	US-2021-0035296-A1 2/4/2021 12:00:00AM		Published
50174-738, 601 Patent Cooperation Treaty Title: Agent: International Search Authority: Finance Hold: No	ORD	PCT/US2019/029592 29-Apr-2019	WO2019/210292 10/31/2019 12:00:00AM		30 MO DONE
50174-738, 811 European Patent Convention Title: Agent: International Search Authority: Finance Hold: No	PCT	19792932.6 29-Apr-2019	3784139 3/3/2021 12:00:00AM		Published
50174-738, 711 China (People's Republic) Title: Agent: International Search Authority: Finance Hold: No	PCT	201960058652.3 29-Apr-2019			Abandoned
50174-738, 761 Japan Title: Agent: International Search Authority: Finance Hold: No	PCT	2020-559559 29-Apr-2019	2021-521982 8/30/2021 12:00:00AM		Published

Patent Status Report by Case Number

Page 27 of 31

Monday, May 15, 2023

Case Number, Sub Case Country Name	Case Type	Application Number Application Date	Publication Number Publication Date	Patent Number Issue Date	STATUS Client Ref
50174-738, 771 Korea, Republic of Title: Agent: International Search Authority: Finance Hold:	PCT	10-2020-7034160 29-Apr-2019	10-2021-0005699 1/14/2021 12:00:00AM		Published
SYSTEM AND METHOD FOR FEATURE EXTRACTION AND CLASSIFICATION ON ULTRASOUND TOMOGRAPHY IMAGES Lee International IP & Law I					
50174-739, 101 United States of America Title: Agent: International Search Authority: Finance Hold:	PRO	62/855,387 31-May-2019			Expired
SYSTEM AND METHODS FOR INTERACTIVE LESION CHARACTERIZATION					
50174-739, 102 United States of America Title: Agent: International Search Authority: Finance Hold:	PRO	62/963,940 21-Jan-2020			Expired
SYSTEM AND METHODS FOR INTERACTIVE LESION CHARACTERIZATION					
50174-739, 301 United States of America Title: Agent: International Search Authority: Finance Hold:	CON	67/537,396 29-Nov-2021	US-2022-0084203-A1 3/17/2022 12:00:00AM		Published
SYSTEM AND METHODS FOR INTERACTIVE LESION CHARACTERIZATION					
50174-739, 601 Patent Cooperation Treaty Title: Agent: International Search Authority: Finance Hold:	ORD	PC1/US2020/035325 29-May-2020	WO2020/243574 12/3/2020 12:00:00AM		30 MO DONE
SYSTEM AND METHODS FOR INTERACTIVE LESION CHARACTERIZATION					
50174-740, 101 United States of America Title: Agent: International Search Authority: Finance Hold:	PRO				Closed
SYSTEM AND METHODS FOR INTERACTIVE LESION CHARACTERIZATION					
50174-740, 101 United States of America Title: Agent: International Search Authority: Finance Hold:	PRO				Closed
SYSTEM AND METHODS FOR INTERACTIVE LESION CHARACTERIZATION					

PATENT

REEL: 064093 FRAME: 0584

Patent Status Report by Case Number

Monday, May 15, 2023

Case Number, Sub Case Country Name	Case Type	Application Number Application Date	Publication Number Publication Date	Patent Number Issue Date	STATUS Client Ref
50174-741, 101 United States of America Title: Agent: International Search Authority: Finance Hold:	PRO	62/948,993 17-Dec-2019			Expired
			METHODS AND SYSTEMS FOR CANCER RISK ASSESSMENT USING SOUND SPEED		
	No				
50174-741, 301 United States of America Title: Agent: International Search Authority: Finance Hold:	CON	17/840,121 14-Jun-2022	US-2022-0323043-A1 10/13/2022 12:00:00AM		Published
			METHODS AND SYSTEMS FOR CANCER RISK ASSESSMENT USING TISSUE SOUND SPEED AND STIFFNESS		
	No				
50174-741, 601 Patent Cooperation Treaty Title: Agent: International Search Authority: Finance Hold:	ORD	PCT/US2020/065412 16-Dec-2020	WO2021/237059 6/24/2021 12:00:00AM		30 MO DONE
			METHODS AND SYSTEMS FOR CANCER RISK ASSESSMENT USING TISSUE SOUND SPEED AND STIFFNESS		
	US No				
50174-741, 611 European Patent Convention Title: Agent: International Search Authority: Finance Hold:	PCT	20901406.7 16-Dec-2020	4076158 10/26/2022 12:00:00AM		Published
			METHODS AND SYSTEMS FOR CANCER RISK ASSESSMENT USING TISSUE SOUND SPEED AND STIFFNESS		
	Mathys & Squire US No				
50174-741, 701 Canada Title: Agent: International Search Authority: Finance Hold:	PCT	3,161,457 16-Dec-2020	3161457 6/24/2021 12:00:00AM		Published
			METHODS AND SYSTEMS FOR CANCER RISK ASSESSMENT USING TISSUE SOUND SPEED AND STIFFNESS		
	Gowling WLG LLP No				

PATENT

REEL: 064093 FRAME: 0585

Patent Status Report by Case Number

Monday, May 15, 2023

Case Number, Sub Case Country Name	Case Type	Application Number Application Date	Publication Number Publication Date	Patent Number Issue Date	STATUS Client Ref
50174-741, 711 China (People's Republic) Title: Agent: International Search Authority: Finance Hold:	PCT	202080096727.8 16-Dec-2020	CN115135230A 9/30/2022 12:00:00AM		Published
METHODS AND SYSTEMS FOR CANCER RISK ASSESSMENT USING TISSUE SOUND SPEED AND STIFFNESS AFD China Intellectual Prop					
US No					
50174-741, 751 Japan Title: Agent: International Search Authority: Finance Hold:	PCT	2022-537014 16-Dec-2020			Pending
METHODS AND SYSTEMS FOR CANCER RISK ASSESSMENT USING TISSUE SOUND SPEED AND STIFFNESS Shusaku Yamamoto Patent					
No					
50174-742, 101 United States of America Title: Agent: International Search Authority: Finance Hold:	PRO	62/949,004 17-Dec-2019			Expired
IMAGING MARKER FOR MONITORING RESPONSE TO NEOADJUVANT CHEMOTHERAPY					
No					
50174-742, 601 Patent Cooperation Treaty Title: Agent: International Search Authority: Finance Hold:	ORD				closed
IMAGING MARKER FOR MONITORING RESPONSE TO NEOADJUVANT CHEMOTHERAPY					
No					
50174-743, 101 United States of America Title: Agent: International Search Authority: Finance Hold:	PRO	62/952,000 20-Dec-2019			Expired
METHODS AND SYSTEMS FOR WHOLE BREAST STIFFNESS CHARACTERIZATION					
No					

PATENT

REEL: 064093 FRAME: 0586

Patent Status Report by Case Number

Monday, May 15, 2023

Page 30 of 31

Case Number, Sub Case Country Name	Case Type	Application Number Application Date	Publication Number Publication Date	Patent Number Issue Date	STATUS Client Ref
50174-744, 101 United States of America Title: Agent: International Search Authority: Finance Hold: No	PRO	63/080,138 18-Sep-2020			Expired
SYSTEMS AND METHODS FOR IMAGE MANIPULATION OF A DIGITAL STACK OF TISSUE IMAGES.					
50174-744, 301 United States of America Title: Agent: International Search Authority: Finance Hold: No	CON	18/184,612 15-Mar-2023			Pending
SYSTEMS AND METHODS FOR IMAGE MANIPULATION OF A DIGITAL STACK OF TISSUE IMAGES.					
50174-744, 601 Patent Cooperation Treaty Title: Agent: International Search Authority: Finance Hold: No	ORD	PCT/US2021/050287 14-Sep-2021	WO/2022/060738 3/24/2022 12:00:00AM		Published
SYSTEMS AND METHODS FOR IMAGE MANIPULATION OF A DIGITAL STACK OF TISSUE IMAGES.					
50174-744, 611 European Patent Convention Title: Agent: International Search Authority: Finance Hold: No	PCT	21870/70.6 14-Sep-2021			Pending
SYSTEMS AND METHODS FOR IMAGE MANIPULATION OF A DIGITAL STACK OF TISSUE IMAGES. Mathys &QUIRE					
50174-744, 711 China (People's Republic) Title: Agent: International Search Authority: Finance Hold: No	PCT				Unfiled
SYSTEMS AND METHODS FOR IMAGE MANIPULATION OF A DIGITAL STACK OF TISSUE IMAGES. APO China Intellectual Prop					
50174-744, 761 Japan Title: Agent: International Search Authority: Finance Hold: No	PCT	2023-517687 14-Sep-2021			Pending
SYSTEMS AND METHODS FOR IMAGE MANIPULATION OF A DIGITAL STACK OF TISSUE IMAGES. Shusaku Yamamoto Patent					

Selection Criteria

Monday, May 15, 2023

Record Count: 166

Sort: by Case Number
Include: Selection Criteria

Filing Date:.

Case Number:

Client:

Agent:

Area:

Inventor:

Owner:

Attorney:

Country:

International Search Authority:

Finance Hold:

Case Type:

Status:

Status Codes:

More ...

Client:

Inventors:

Attorney:

International Search Authority:

Owner:

Agent:

Sub Case:

NEW COPY

EXHIBIT C**TRADEMARKS**

Mark	Mark Type	Class	Serial No.	Filing Date	Registration Date	Registration No.
DELPHINUS	Standard Character Mark	IC 010 US 026 US 039 US 044	87043832	May 19, 2016	February 11, 2020	5984665
SOFTVUE	Standard Character Mark	IC 010 US 026 US 039 US 044	87043815	May 19, 2016	July 21, 2020	6108150

EXHIBIT D

MASK WORDS

None.

COPY VIEW