

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

EPAS ID: PAT7915800

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	SECURITY INTEREST
CONVEYING PARTY DATA	
Name	Execution Date
CONVERGENT DENTAL, INC.	04/21/2023
RECEIVING PARTY DATA	
Name:	TRINITY CAPITAL INC., AS COLLATERAL AGENT
Street Address:	1 N. 1ST STREET
Internal Address:	FLOOR 3
City:	PHOENIX
State/Country:	ARIZONA
Postal Code:	85004
PROPERTY NUMBERS Total: 34	
Property Type	Number
Patent Number:	8251984
Patent Number:	10624715
Patent Number:	11291523
Patent Number:	9622833
Patent Number:	9408673
Patent Number:	10631951
Patent Number:	10045833
Patent Number:	9011416
Patent Number:	9011417
Patent Number:	10182881
Patent Number:	9788915
Patent Number:	10219738
Patent Number:	10779908
Patent Number:	9980788
Patent Number:	9987100
Patent Number:	11291522
Patent Number:	9450369
Patent Number:	9980789
Patent Number:	10470843

Property Type	Number
Patent Number:	10631929
Patent Number:	11529214
Patent Number:	11202674
Patent Number:	10945790
Patent Number:	11464566
Application Number:	16774215
Application Number:	16211922
Application Number:	16821263
Application Number:	16806449
Application Number:	16834424
Application Number:	17896710
Application Number:	17139208
Application Number:	18089372
Application Number:	63294011
Application Number:	63338680

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: (619) 699-2708

Email: christian.cruz@us.dlapiper.com

Correspondent Name: DLA PIPER LLP (US)

Address Line 1: 4365 EXECUTIVE DRIVE

Address Line 2: SUITE 1100

Address Line 4: SAN DIEGO, CALIFORNIA 92121

NAME OF SUBMITTER:	MATT SCHWARTZ
SIGNATURE:	/s/ Matt Schwartz
DATE SIGNED:	04/24/2023

Total Attachments: 35

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INTELLECTUAL PROPERTY SECURITY AGREEMENT

THIS INTELLECTUAL PROPERTY SECURITY AGREEMENT ("Agreement") dated as of April 21, 2023, is made by CONVERGENT DENTAL, INC., a Delaware corporation, and each domestic Subsidiary signatory hereto (individually and collectively, the "Grantor"), in favor of TRINITY CAPITAL INC., a Maryland corporation, as administrative agent and collateral agent for the Lenders (as defined below) ("Administrative Agent").

RECITALS

A. Grantor has entered into a Loan and Security Agreement with the lenders from time to time party thereto (each, a "Lender" and collectively, the "Lenders") and the Administrative Agent, 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 Administrative Agent, for the benefit of the Lenders, 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 Administrative Agent, for the benefit of the Lenders, a security interest in all of Grantor's right, title and interest in, to and under its intellectual property constituting Collateral (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.

Notwithstanding anything to the contrary contained herein, "Intellectual Property Collateral" shall not include any Excluded Property.

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 Administrative Agent.

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 Administrative Agent 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 Administrative Agent's express prior written consent, and any such attempted assignment shall be void and of no effect. Administrative Agent 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 Administrative Agent's successors and assigns.

6. Governing Law. This Agreement shall be governed by, and construed and enforced in accordance with, the laws of the State of New York, excluding conflict of laws principles that would cause the application of laws of any other jurisdiction.

[Signature page follows.]

IN WITNESS WHEREOF, the parties have caused this Intellectual Property Security Agreement to be duly executed by its officers thereunto duly authorized as of the first date written above.

GRANTOR:

CONVERGENT DENTAL, INC., a Delaware corporation

DocuSigned by:
By: Mark Collins
-----BB040A28DD70433-----

Name: Mark Collins

Title: Chief Financial Officer

ADMINISTRATIVE AGENT:

TRINITY CAPITAL INC.,
a Maryland corporation

DocuSigned by:
By: Sarah Stanton
-----181087259193453-----

Name: Sarah Stanton

Title: General Counsel and Chief Compliance Officer

[Signature Page to Intellectual Property Security Agreement]

EXHIBIT A

COPYRIGHTS

None.

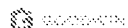
COPY VIEW

EXHIBIT B

PATENTS

[See attached]

COPY VIEW



Invention Master List by Docket Number

Monday, January 16, 2023

Page 1 of 28

Docket Number: CVD-001 Family Number:
 Disclosure Status: Filed Disclosure Date:
 Client: Convergent Dental
 Sub Division:
 Owner: Attorney(s): SF24, MG16, SW15, KC27

Invention Title: DENTAL LASER SYSTEM AND TREATMENT METHOD
 Resp Office: BOS

COUNTRY APPLICATIONS

Country	Sub Case	Case Type	Client-Matter#	Examination Date
Status	Application Number		Patent Number	Country Owner
Status Date	Filing Date		Issue Date	
Country Title				

CA		PCT	126732-22356	01-Jul-2010
Granted	2769448		2769448	
07-May-2018	30-Jul-2010		24-Oct-2017	

DENTAL LASER SYSTEM USING MIDRANGE GAS PRESSURE

CA	CP	PCT	126732-225522	
Granted	2825182		2825182	
29-May-2018	02-Feb-2011		29-May-2018	

DE	CP	EPP	126732-300509	02-Feb-2031
Granted	11709236.1		2670336	
07-May-2018	02-Feb-2011		26-Oct-2016	

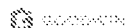
EP	CP	PCT	126732-225523	02-Feb-2031
Granted	11709236.1		2670336	
07-May-2018	02-Feb-2011		26-Oct-2016	

ES	CP	EPP	126732-300510	02-Feb-2031
Granted	11709236.1		2670336	
07-May-2018	02-Feb-2011		26-Oct-2016	

FR	CP	EPP	126732-300507	02-Feb-2031
Granted	11709236.1		2670336	
07-May-2018	02-Feb-2011		26-Oct-2016	

GB	CP	EPP	126732-300508	02-Feb-2031
Granted	11709236.1		2670336	
07-May-2018	02-Feb-2011		26-Oct-2016	

IT	CP	EPP	126732-300506	02-Feb-2031
Granted	11709236.1		2670336	
07-May-2018	02-Feb-2011		26-Oct-2016	



Invention Master List by Docket Number

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Country	Sub Case	Case Type	Client-Matter#	Expiration Date
Status	Application Number		Patent Number	Country Owner
Status Date	Filing Date		Issue Date	
Country Title				

JP		PCT	126732-213358	30-Jul-2030
Granted	2012-523100		5866118	
07-May-2018	30-Jul-2010		08-Jan-2016	
DENTAL LASER SYSTEM USING MIDRANGE GAS PRESSURE				

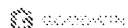
JP	CP	PCT	126732-225524	02-Feb-2031
Granted	2013-552504		5961632	
07-May-2018	02-Feb-2011		01-Jul-2016	

JP	D1	DIV	126732-234933	
Published	2014-161014			
06-Nov-2014	30-Jul-2010			

US		ORD	126732-205453	10-Mar-2031
Granted	12/647739		8251984	
07-May-2018	30-Jul-2010		28-Aug-2012	
DENTAL LASER SYSTEM USING MIDRANGE GAS PRESSURE				

US	CP	CIP	126732-205507	27-May-2033
Granted	12/019706		10624715	
21-Apr-2020	02-Feb-2011		21-Apr-2020	

US	CPC	CON	126732-303692	14-Aug-2031
Granted	16/619574		11291523	
05-Apr-2022	16-Mar-2020		05-Apr-2022	



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Monday, January 16, 2023

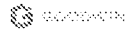
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Docket Number: CVD-002 Family Number: CVD1
 Disclosure Status: Filed Disclosure Date:
 Client: Convergent Dental
 Sub Division:
 Owner: Attorney(s): SF24, MG16, SW15, KC27

Invention Title: LASER BASED COMPUTER CONTROLLED DENTAL PREPARATION SYSTEM
 Resp Office: BOS

COUNTRY APPLICATIONS

Country	Sub Case	Case Type	Client-Matter#	Examination Date
Status	Application Number		Patent Number	Country Owner
Status Date	Filing Date		Issue Date	
Country Title				
CA		PCT	126732-230226	04-Sep-2032
Granted	2846890		2846890	
09-Jun-2020	04-Sep-2012		09-Jun-2020	
DE		EPP	126732-230230	04-Sep-2032
Granted	12780901.0		2750619	
05-Feb-2020	04-Sep-2012		06-Nov-2019	
EP		PCT	126732-230230	04-Sep-2032
Granted	12780901.0		2750619	
06-Nov-2019	04-Sep-2012		06-Nov-2019	
ES		EPP	126732-230230	04-Sep-2032
Granted	12780901.0		2750619	
05-Feb-2020	04-Sep-2012		06-Nov-2019	
FR		EPP	126732-230230	04-Sep-2032
Granted	12780901.0		2750619	
05-Feb-2020	04-Sep-2012		06-Nov-2019	
GB		EPP	126732-230230	04-Sep-2032
Granted	12780901.0		2750619	
05-Feb-2020	04-Sep-2012		06-Nov-2019	
IT		EPP	126732-230230	04-Sep-2032
Granted	12780901.0		2750619	
05-Feb-2020	04-Sep-2012		06-Nov-2019	
JP		PCT	126732-230228	04-Sep-2032
Granted	2014-528695		6232379	
07-May-2018	04-Sep-2012		27-Oct-2017	

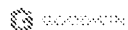


Invention Master List by Docket Number

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Country	Sub Case	Case Type	Client-Matter#	Expiration Date
Status	Application Number		Patent Number	Country Owner
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Country Title				
JP	D1	DIV	126732-265870	04-Sep-2032
Granted	2017-129981		6730228	
06-Jul-2020	04-Sep-2012		06-Jul-2020	
US		ORD	126732-206120	29-Sep-2034
Granted	13/603165		9622833	
07-May-2018	04-Sep-2012		18-Apr-2017	
US	C1	CON	126732-228075	02-Nov-2032
Granted	14/063765		9408673	
07-May-2018	19-Nov-2013		09-Aug-2016	
US	D1	DIV	126732-260051	04-Sep-2032
Granted	15/488017		10631951	
28-Apr-2020	14-Apr-2017		28-Apr-2020	
US	D1C1	CON	126732-260051	
Published	16/776618			
18-Jun-2020	28-Jan-2020			



Invention Master List by Docket Number

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Docket Number: CVD-003 Family Number:
 Disclosure Status: Filed Disclosure Date:
 Client: Convergent Dental
 Sub Division:
 Owner: Attorney(s): SF24, MG16, SW15, GH7, KC27

Invention Title: APPARATUS AND METHOD FOR USING A LASER BASED SYSTEM FOR DENTAL TREATMENTS USING COMPUTER CONTROL AND FLUID COOLING

Resp Office: BOS

COUNTRY APPLICATIONS

Country	Sub Case	Case Type	Client-Matter#	Expiration Date
Status	Application Number		Patent Number	Country Owner
Status Date	Filing Date		Issue Date	
Country Title				

CA		PCT	126732-236926	14-May-2033
Granted	2873426		2873426	
19-May-2020	14-May-2013		19-May-2020	

APPARATUS AND METHOD FOR CONTROLLED FLUID COOLING DURING LASER BASED DENTAL TREATMENTS

DE		EPP	126732-353923	14-May-2033
Granted	13790541.0		2849671	
30-Mar-2021	14-May-2013		07-Apr-2021	

APPARATUS AND METHOD FOR CONTROLLED FLUID COOLING DURING LASER BASED DENTAL TREATMENTS

EP		PCT	126732-236924	14-May-2033
Granted	13790541.0		2849671	
07-Apr-2021	14-May-2013		07-Apr-2021	

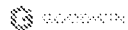
APPARATUS AND METHOD FOR CONTROLLED FLUID COOLING DURING LASER BASED DENTAL TREATMENTS

ES		EPP	126732-353925	14-May-2033
Granted	13790541.0		2849671	
30-Mar-2021	14-May-2013		07-Apr-2021	

APPARATUS AND METHOD FOR CONTROLLED FLUID COOLING DURING LASER BASED DENTAL TREATMENTS

FR		EPP	126732-353988	14-May-2033
Granted	13790541.0		2849671	
30-Mar-2021	14-May-2013		07-Apr-2021	

APPARATUS AND METHOD FOR CONTROLLED FLUID COOLING DURING LASER BASED DENTAL TREATMENTS



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Country	Sub Case	Case Type	Client-Matter#	Expiration Date
Status	Application Number		Patent Number	Country Owner
Status Date	Filing Date		Issue Date	
Country Title				

GB		EPP	126732-353924	14-May-2033
Granted	13790541.0		2849671	
30-Mar-2021	14-May-2013		07-Apr-2021	
APPARATUS AND METHOD FOR CONTROLLED FLUID COOLING DURING LASER BASED DENTAL TREATMENTS				

IT		EPP	126732-353922	14-May-2033
Granted	13790541.0		2849671	
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APPARATUS AND METHOD FOR CONTROLLED FLUID COOLING DURING LASER BASED DENTAL TREATMENTS				

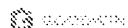
JP		PCT	126732-252438	14-May-2033
Granted	2015-512754		6570446	
16-Aug-2019	14-May-2013		16-Aug-2019	
APPARATUS AND METHOD FOR CONTROLLED FLUID COOLING DURING LASER BASED DENTAL TREATMENTS				

JP		DIV	126732-252438	
Published	2018-072358			
07-May-2018	14-May-2013			
APPARATUS AND METHOD FOR CONTROLLED FLUID COOLING DURING LASER BASED DENTAL TREATMENTS				

US		ORD	126732-210756	24-Feb-2034
Granted	13/694067		10045833	
14-Aug-2018	14-May-2013		14-Aug-2018	
APPARATUS AND METHOD FOR CONTROLLED FLUID COOLING DURING LASER BASED DENTAL TREATMENTS				

US	C1	CON	126732-225610	14-May-2033
Granted	13/958309		9011416	
07-May-2018	05-Aug-2013		21-Apr-2015	
APPARATUS AND METHOD FOR CONTROLLED FLUID COOLING DURING LASER BASED DENTAL TREATMENTS				

US	C2	CON	126732-225611	14-May-2033
Granted	13/958323		9011417	
07-May-2018	05-Aug-2013		21-Apr-2015	
APPARATUS AND METHOD FOR CONTROLLED FLUID COOLING DURING LASER BASED DENTAL TREATMENTS				



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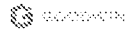
Docket Number: CVD-004 Family Number: CVD3
 Disclosure Status: Filed Disclosure Date:
 Client: Convergent Dental
 Sub Division:
 Owner: Attorney(s): SF24, MG16, SW15, JP62, KC27

Invention Title: DENTAL LASER APPARATUS AND METHOD OF USE WITH INTERCHANGEABLE HAND
 PIECE AND VARIABLE FOOT PEDAL

Resp Office: BOS

COUNTRY APPLICATIONS

Country	Sub Case	Case Type	Client-Matter#	Expiration Date
Status	Application Number		Patent Number	Country Owner
Status Date	Filing Date		Issue Date	
Country Title				
CA		PCT	126732-243882	04-Feb-2034
Granted	2900266		2900266	
09-Feb-2021	04-Feb-2014		09-Feb-2021	
DE		EPP		04-Feb-2034
Granted	14711024.1		2953571	
05-May-2021	04-Feb-2014		14-Apr-2021	
EP		PCT	126732-243871	04-Feb-2034
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05-May-2021	04-Feb-2014		14-Apr-2021	
ES		EPP		04-Feb-2034
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05-May-2021	04-Feb-2014		14-Apr-2021	
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Granted	14711024.1		2953571	
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GB		EPP		04-Feb-2034
Granted	14711024.1		2953571	
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IT		EPP		04-Feb-2034
Granted	14711024.1		2953571	
05-May-2021	04-Feb-2014		14-Apr-2021	
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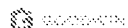


Invention Master List by Docket Number

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Country	Sub Case	Case Type	Client-Matter#	Expiration Date
Status	Application Number		Patent Number	Country Owner
Status Date	Filing Date		Issue Date	
Country Title				
JP	D1	Div	126732-288916	04-Feb-2034
Granted	2019-38526		7102362	
08-Jul-2022	04-Feb-2014		08-Jul-2022	
JP	D2	ORD	126732-304628	
Allowed	2020-50964			
29-Nov-2022	23-Mar-2020			
US		ORD	126732-218160	04-Feb-2034
Granted	14/172562		10182681	
22-Jan-2019	04-Feb-2014		22-Jan-2019	
US	C1	CON	126732-282616	04-Feb-2034
Granted	14/737011		9788915	
07-May-2018	11-Jun-2015		17-Oct-2017	
US	C2	CON	126732-283568	
Published	16/241932			CONVERGENT DENTAL, INC.
	08-Dec-2018			



Invention Master List by Docket Number

Monday, January 16, 2023

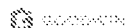
Page 9 of 28

Docket Number: CVD-006 Family Number: CVD2
 Disclosure Status: Filed Disclosure Date:
 Client: Convergent Dental
 Sub Division:
 Owner: Attorney(s): SF24, MG16, SW15, KC27

Invention Title: SYSTEM AND METHOD FOR IMAGING IN LASER DENTAL TREATMENT
 Resp Office: BOS

COUNTRY APPLICATIONS

Country	Sub Case	Case Type	Client-Matter#	Expiration Date
Status	Application Number		Patent Number	Country Owner
Status Date	Filing Date		Issue Date	
Country Title				
CA		PCT	126732-245131	14-Mar-2034
Granted	2906034		2906034	CONVERGENT DENTAL, INC.
10-Aug-2021	14-Mar-2014		10-Aug-2021	
DE		EPP	126732-353921	14-Mar-2034
Granted	14723928.9		2967767	
09-Jun-2020	14-Mar-2014		06-May-2020	
EP		PCT	126732-245127	14-Mar-2034
Granted	14723928.9		2967767	
06-May-2020	14-Mar-2014		06-May-2020	
ES		EPP	126732-245127	14-Mar-2034
Granted	14723928.9		2967767	
09-Jun-2020	14-Mar-2014		06-May-2020	
FR		EPP	126732-353932	14-Mar-2034
Granted	14723928.9		2967767	
09-Jun-2020	14-Mar-2014		06-May-2020	
IT		EPP	126732-353931	14-Mar-2034
Granted	14723928.9		2967767	
09-Jun-2020	14-Mar-2014		06-May-2020	
JP		PCT	126732-245129	14-Mar-2034
Granted	2016-502921		6576005	
30-Aug-2019	14-Mar-2014		30-Aug-2019	
US		ORD	126732-218162	01-Feb-2035
Granted	14/213363		10219738	
05-Mar-2019	14-Mar-2014		05-Mar-2019	



Invention Master List by Docket Number

Monday, January 16, 2023

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Docket Number: CVD-007 Family Number:
Disclosure Status: Filed Disclosure Date:
Client: Convergent Dental
Sub Division:
Owner: Attorney(s): SF24, MG16, GH7, KC27

Invention Title: DENTAL LASER WITH OPTICAL SYSTEM PROTECTION
Resp Office: BOS

COUNTRY APPLICATIONS

Country	Sub Case	Case Type	Client-Matter#	Expiration Date
Status	Application Number		Patent Number	Country Owner
Status Date	Filing Date		Issue Date	
Country Title				

DE		EPP		26-Nov-2034
Granted	14815528.6		3073952	
04-Mar-2020	26-Nov-2014		08-Jan-2020	
SYSTEMS AND METHOD FOR PROTECTION OF OPTICAL SYSTEM OF LASER-BASED APPARATUS				

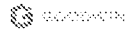
EP		PCT	126732-251288	26-Nov-2034
Granted	14815528.6		3073952	
08-Jan-2020	26-Nov-2014		08-Jan-2020	
SYSTEMS AND METHOD FOR PROTECTION OF OPTICAL SYSTEM OF LASER-BASED APPARATUS				

ES		EPP		26-Nov-2034
Granted	14815528.6		3073952	
04-Mar-2020	26-Nov-2014		08-Jan-2020	
SYSTEMS AND METHOD FOR PROTECTION OF OPTICAL SYSTEM OF LASER-BASED APPARATUS				

FR		EPP		26-Nov-2034
Granted	14815528.6		3073952	
04-Mar-2020	26-Nov-2014		08-Jan-2020	
SYSTEMS AND METHOD FOR PROTECTION OF OPTICAL SYSTEM OF LASER-BASED APPARATUS				

GB		EPP		26-Nov-2034
Granted	14815528.6		3073952	
04-Mar-2020	26-Nov-2014		08-Jan-2020	
SYSTEMS AND METHOD FOR PROTECTION OF OPTICAL SYSTEM OF LASER-BASED APPARATUS				

IT		EPP		26-Nov-2034
Granted	14815528.6		3073952	
04-Mar-2020	26-Nov-2014		08-Jan-2020	
SYSTEMS AND METHOD FOR PROTECTION OF OPTICAL SYSTEM OF LASER-BASED APPARATUS				



Invention Master List by Docket Number

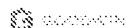
Monday, January 16, 2023

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Country	Sub Case	Case Type	Client-Matter#	Expiration Date
Status	Application Number		Patent Number	Country Owner
Status Date	Filing Date		Issue Date	
Country Title				

JP		PCT	126732-251287	26-Nov-2034
Granted	2016-534195		6581579	
06-Sep-2019	26-Nov-2014		06-Sep-2019	
SYSTEMS AND METHOD FOR PROTECTION OF OPTICAL SYSTEM OF LASER-BASED APPARATUS				

US	C1	CON	126732-243009	26-Nov-2034
Granted	14/755814		10779908	
22-Sep-2020	30-Jun-2015		22-Sep-2020	
SYSTEMS AND METHOD FOR PROTECTION OF OPTICAL SYSTEM OF LASER-BASED APPARATUS				



Invention Master List by Docket Number

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Docket Number: CVD-012 Family Number: CVD4
 Disclosure Status: Filed Disclosure Date:
 Client: Convergent Dental
 Sub Division:
 Owner: Attorney(s): SF24, MG16, SW15, KC27

Invention Title: ELECTRICAL GROUNDING SYSTEM FOR LASER-BASED DENTAL TREATMENT
 SYSTEM

Resp Office: BOS

COUNTRY APPLICATIONS

Country	Sub Case	Case Type	Client-Matter#	Expiration Date
Status	Application Number		Patent Number	Country Owner
Status Date	Filing Date		Issue Date	
Country Title				

CA		PCT	126732-251301	26-Nov-2034
Granted	2931617		2931617	
19-Oct-2021	26-Nov-2014		19-Oct-2021	

SYSTEMS AND METHODS FOR GROUNDING OR ISOLATING A DENTAL HAND PIECE

DE		EPP	126732-251301	26-Nov-2034
Granted	14815530.2		3073950	
30-May-2018	26-Nov-2014		30-May-2018	

SYSTEMS AND METHODS FOR GROUNDING OR ISOLATING A DENTAL HAND PIECE

EP		PCT	126732-251301	26-Nov-2034
Granted	14815530.2		3073950	
30-May-2018	26-Nov-2014		30-May-2018	

SYSTEMS AND METHODS FOR GROUNDING OR ISOLATING A DENTAL HAND PIECE

ES		EPP	126732-251301	26-Nov-2034
Granted	14815530.2		3073950	
30-May-2018	26-Nov-2014		30-May-2018	

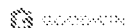
SYSTEMS AND METHODS FOR GROUNDING OR ISOLATING A DENTAL HAND PIECE

FR		EPP	126732-251301	26-Nov-2034
Granted	14815530.2		3073950	
30-May-2018	26-Nov-2014		30-May-2018	

SYSTEMS AND METHODS FOR GROUNDING OR ISOLATING A DENTAL HAND PIECE

GB		EPP	126732-251301	26-Nov-2034
Granted	14815530.2		3073950	
30-May-2018	26-Nov-2014		30-May-2018	

SYSTEMS AND METHODS FOR GROUNDING OR ISOLATING A DENTAL HAND PIECE



Invention Master List by Docket Number

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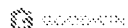
Country	Sub Case	Case Type	Client-Matter#	Expiration Date
Status	Application Number		Patent Number	Country Owner
Status Date	Filing Date		Issue Date	
Country Title				

IT		EPP	126732-251301	26-Nov-2034
Granted	502018000017601		3073950	
30-May-2018	26-Nov-2014		30-May-2018	
SYSTEMS AND METHODS FOR GROUNDING OR ISOLATING A DENTAL HAND PIECE				

JP		PCT	126732-251304	26-Nov-2034
Granted	2016-534196		6546591	
28-Jun-2019	26-Nov-2014		28-Jun-2019	
SYSTEMS AND METHODS FOR GROUNDING OR ISOLATING A DENTAL HAND PIECE				

US		ORD	126732-226169	14-Nov-2035
Granted	14/554482		9980389	
29-May-2018	26-Nov-2014		29-May-2018	
SYSTEMS AND METHODS FOR GROUNDING OR ISOLATING A DENTAL HAND PIECE				

US	C1	CON	126732-242707	26-Nov-2034
Granted	14/743330		9987100	
05-Jun-2018	15-Jun-2018		05-Jun-2018	
SYSTEMS AND METHODS FOR GROUNDING OR ISOLATING A DENTAL HAND PIECE				



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Docket Number: CVD-014 Family Number:
 Disclosure Status: Filed Disclosure Date:
 Client: Convergent Dental
 Sub Division:
 Owner: Attorney(s): SF24, MG16, SW15, GH7, KC27

Invention Title: SYSTEMS AND METHODS TO CONTROL DEPTH OF TREATMENT IN DENTAL LASER
 SYSTEMS

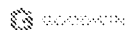
Resp Office: BOS

COUNTRY APPLICATIONS

Country	Sub Case	Case Type	Client-Matter#	Expiration Date
Status	Application Number		Patent Number	Country Owner
Status Date	Filing Date		Issue Date	
Country Title				
CA		PCT	126732-261298	
Published	2968841			
02-Jun-2016	25-Nov-2015			
EP		PCT	126732-261301	
Published	15810710.2			
07-May-2018	25-Nov-2015			
JP		PCT	126732-261300	25-Nov-2035
Granted	2017-07876		6710210	
05-May-2020	25-Nov-2015		28-May-2020	
KR		PCT	126732-261302	
Published	10-2017-7017066			
05-Sep-2017	25-Nov-2015			
US		ORD	126732-237556	25-Nov-2035
Granted	14/952329		11291522	
05-Apr-2022	25-Nov-2015		05-Apr-2022	

PATENT

REEL: 064934 FRAME: 0155



Invention Master List by Docket Number

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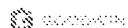
Page 15 of 28

Docket Number: CVD-015 Family Number:
Disclosure Status: Filed Disclosure Date:
Client: Convergent Dental
Sub Division:
Owner: Attorney(s): SF24, MG16, GH7, KC27

Invention Title: SYSTEMS AND METHODS FOR SUPPLYING POWER TO AND COOLING DENTAL
LASER SYSTEMS
Resp Office: BOS

COUNTRY APPLICATIONS

Country	Sub Case	Case Type	Client-Matter#	Expiration Date
Status	Application Number		Patent Number	Country Owner
Status Date	Filing Date		Issue Date	
Country Title				
EP		PCT	126732-261231	
Published	15816288.3			
07-May-2018	25-Nov-2015			
US		ORD	126732-237284	25-Nov-2035
Granted	14/952396		9450369	
07-May-2018	25-Nov-2015		20-Sep-2016	



Invention Master List by Docket Number

Monday, January 16, 2023

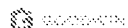
Page 16 of 28

Docket Number: CVD-016 Family Number:
 Disclosure Status: Filed Disclosure Date:
 Client: Convergent Dental
 Sub Division:
 Owner: Attorney(s): SF24, MG16, SW15, KC27

Invention Title: SYSTEMS AND METHODS FOR ALIGNMENT OF A LASER BEAM
 Resp Office: BOS

COUNTRY APPLICATIONS

Country	Sub Case	Case Type	Client-Matter#	Examination Date
Status	Application Number		Patent Number	Country Owner
Status Date	Filing Date		Issue Date	
Country Title				
CA	D1	DIV	126732-260837	
Published	3171484			
09-Jun-2016	26-Aug-2022			
EP	PCT		126732-261879	
Published	15847016.7			
07-May-2018	04-Dec-2015			
JP	PCT		126732-261880	04-Dec-2035
Granted	2017-529640		6739431	
27-Jul-2020	04-Dec-2015		27-Jul-2020	
KR	PCT		126732-261881	
Published	10-2017-7018117			
17-Oct-2018	04-Dec-2015			
US		ORD	126732-237293	30-Nov-2036
Granted	14/959764		9980789	
29-May-2018	04-Dec-2015		29-May-2018	
US	C1	CON	126732-275207	01-Mar-2036
Granted	15/964952		10470843	
12-Nov-2019	27-Apr-2018		12-Nov-2019	



Invention Master List by Docket Number

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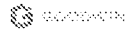
Docket Number: CVD-017 Family Number:
 Disclosure Status: Filed Disclosure Date:
 Client: Convergent Dental
 Sub Division:
 Owner: Attorney(s): SF24, MG16, SW15, KC27

Invention Title: SYSTEM AND METHODS FOR PULSING AND DIRECTING A PULSED LASER TO TREAT DENTAL TISSUE

Resp Office: BOS

COUNTRY APPLICATIONS

Country	Sub Case	Case Type	Client-Matter#	Expiration Date
Status	Application Number		Patent Number	Country Owner
Status Date	Filing Date		Issue Date	
Country Title				
CA		PCT	126732-281290	
Published	3022541			
05-May-2017	05-May-2017			
DE		EPP	126732-353979	05-May-2037
Granted	17723618.9		3451965	
25-Oct-2021	05-May-2017		08-Sep-2021	
EP		PCT	126732-281291	05-May-2037
Granted	17723618.9		3451965	
25-Oct-2021	05-May-2017		08-Sep-2021	
ES		EPP	126732-353978	05-May-2037
Granted	17723618.9		3451965	
25-Oct-2021	05-May-2017		08-Sep-2021	
FR		EPP	126732-353971	05-May-2037
Granted	17723618.9		3451965	
25-Oct-2021	05-May-2017		08-Sep-2021	
GB		EPP	126732-353977	05-May-2037
Granted	17723618.9		3451965	
25-Oct-2021	05-May-2017		08-Sep-2021	
IT		EPP	126732-353980	05-May-2037
Granted	17723618.9		3451965	
25-Oct-2021	05-May-2017		08-Sep-2021	
JP		PCT	126732-281292	
Published	2018-557852			
06-Jun-2019	05-May-2017			

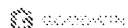


Invention Master List by Docket Number

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Country	Sub Case	Case Type	Client-Matter#	Expiration Date
Status	Application Number		Patent Number	Country Owner
Status Date	Filing Date		Issue Date	
Country Title				
JP	D1	DIV	126732-351904	
Published	2022-2181			
04-Mar-2022	11-Jan-2022			
KR		PCT	126732-281293	05-May-2037
Granted	10-2018-7034975		10-2219629	
18-Feb-2021	05-May-2017		18-Feb-2021	
US		ORD	126732-250801	17-Dec-2037
Granted	15/587525		10631929	
28-Apr-2020	05-May-2017		28-Apr-2020	
SYSTEMS AND METHODS FOR PULSING AND DIRECTING A PULSED LASER BEAM TO TREAT DENTAL TISSUE				
US	C1	CON	126732-303770	
Published	16/621263			
29-Oct-2020	17-Mar-2020			
SYSTEM AND METHODS FOR PULSING AND DIRECTING A PULSED LASER BEAM TO TREAT DENTAL TISSUE				



Invention Master List by Docket Number

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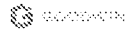
Docket Number: CVD-018 Family Number:
 Disclosure Status: Filed Disclosure Date:
 Client: Convergent Dental
 Sub Division:
 Owner: Attorney(s): SF24, MG16, NU1, KC27

Invention Title: SYSTEM AND METHODS FOR PREVENTATIVE DENTAL HARD TISSUE TREATMENT WITH A LASER

Resp Office: BOS

COUNTRY APPLICATIONS

Country	Sub Case	Case Type	Client-Matter#	Expiration Date
Status	Application Number		Patent Number	Country Owner
Status Date	Filing Date		Issue Date	
Country Title				
CA		PCT	126732-298102	
Published	3062176			
15-Nov-2018	10-May-2018			
DE		EPP		10-May-2038
Granted	18727601.9		3621549	
19-Dec-2022	10-May-2018		28-Dec-2022	
EP		PCT	126732-298105	10-May-2038
Granted	18727601.9		3621549	
19-Dec-2022	10-May-2018		28-Dec-2022	
ES		EPP		10-May-2038
Granted	18727601.9		3621549	
19-Dec-2022	10-May-2018		28-Dec-2022	
FR		EPP		10-May-2038
Granted	18727601.9		3621549	
19-Dec-2022	10-May-2018		28-Dec-2022	
GB		EPP		10-May-2038
Granted	18727601.9		3621549	
19-Dec-2022	10-May-2018		28-Dec-2022	
IT		EPP		10-May-2038
Granted	18727601.9		3621549	
19-Dec-2022	10-May-2018		28-Dec-2022	
JP		PCT	126732-298106	
Published	2019-561966			
02-Jul-2020	10-May-2018			



Invention Master List by Docket Number

Monday, January 16, 2023

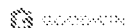
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Country	Sub Case	Case Type	Client-Matter#	Expiration Date
Status	Application Number		Patent Number	Country Owner
Status Date	Filing Date		Issue Date	
Country Title				

KR		PCT	126732-298108	
Published	10-2019-7036607			
26-Feb-2020	10-May-2018			

US		ORD	126732-259507	13-Jan-2040
Granted	15/976272		11529214	
20-Dec-2022	10-May-2018		20-Dec-2022	

US	C1	CON	126732-302963	CONVERGENT DENTAL, INC.
Published	16/606449			
02-Jul-2020	02-Mar-2020			



Invention Master List by Docket Number

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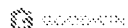
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Docket Number: CVD-019 Family Number:
Disclosure Status: Filed Disclosure Date:
Client: Convergent Dental
Sub Division:
Owner: Attorney(s): SF24, MG16, SW15, KC27

Invention Title: LASER SYSTEM FOR SURGICAL APPLICATIONS
Resp Office: BOS

COUNTRY APPLICATIONS

Country	Sub Case	Case Type	Client-Matter#	Expiration Date
Status	Application Number		Patent Number	Country Owner
Status Date	Filing Date		Issue Date	
Country Title				
CA		PCT	126732-313794	
Published	3096021			CONVERGENT DENTAL, INC.
10-Oct-2019	02-Oct-2020			
EP		PCT	126732-313793	
Published	19747668.1			CONVERGENT DENTAL, INC.
17-Feb-2021	02-Nov-2020			
US		ORD	126732-272997	29-Sep-2039
Granted	16/321698		11202674	CONVERGENT DENTAL, INC.
21-Dec-2021	01-Apr-2019		21-Dec-2021	



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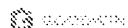
Docket Number: CVD-021 Family Number:
 Disclosure Status: Filed Disclosure Date:
 Client: Convergent Dental
 Sub Division:
 Owner: Attorney(s): SF24, MG16, GH7, KC27

Invention Title: SYSTEMS AND METHODS FOR TREATMENT OF PERIODONTIC POCKETS USING DISPOSABLE INSERTS

Resp Office: BOS

COUNTRY APPLICATIONS

Country	Sub Case	Case Type	Client-Matter#	Expiration Date
Status	Application Number		Patent Number	Country Owner
Status Date	Filing Date		Issue Date	
Country Title				
CA		PCT	126732-340335	
Published	3137572			CONVERGENT DENTAL, INC.
29-Oct-2020	20-Oct-2021			
SYSTEM AND METHOD FOR TREATMENT OF PERIODONTIC POCKETS USING DISPOSABLE INSERTS				
EP		PCT	126732-340334	
Published	20721963			CONVERGENT DENTAL, INC.
02-Mar-2022	20-Oct-2021			
SYSTEM AND METHOD FOR TREATMENT OF PERIODONTIC POCKETS USING DISPOSABLE INSERTS				
JP		PCT	126732-340333	
Published	2021-563029			CONVERGENT DENTAL, INC.
29-Jun-2022	22-Oct-2021			
SYSTEM AND METHOD FOR TREATMENT OF PERIODONTIC POCKETS USING DISPOSABLE INSERTS				
KR		PCT	126732-340332	
Published	10-2021-7037799			CONVERGENT DENTAL, INC.
06-Jan-2022	19-Nov-2021			
SYSTEM AND METHOD FOR TREATMENT OF PERIODONTIC POCKETS USING DISPOSABLE INSERTS				
US		ORD	126732-286732	
Published	16/834424			
05-Nov-2020	30-Mar-2020			
SYSTEM AND METHOD FOR TREATMENT OF PERIODONTIC POCKETS USING DISPOSABLE INSERTS				



Invention Master List by Docket Number

Monday, January 16, 2023

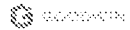
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Docket Number: CVD-022 Family Number:
 Disclosure Status: Filed Disclosure Date:
 Client: Convergent Dental
 Sub Division:
 Owner: Attorney(s): SF24, MG16, GH7, KC27

Invention Title: LASER TREATMENT SYSTEM FOR CONTRACTION OF SOFT TISSUE
 Resp Office: BOS

COUNTRY APPLICATIONS

Country	Sub Case	Case Type	Client-Matter#	Examination Date
Status	Application Number		Patent Number	Country Owner
Status Date	Filing Date		Issue Date	
Country Title				
CA		PCT	126732-345560	
Published	3150854			CONVERGENT DENTAL, INC.
25-Feb-2021	11-Feb-2022			
SYSTEM FOR LASER BASED TREATMENT OF SOFT TISSUE (as amended)				
EP		PCT	126732-345561	
Published	20764502.9			CONVERGENT DENTAL, INC.
22-Jun-2022	11-Feb-2022			
SYSTEM FOR LASER BASED TREATMENT OF SOFT TISSUE (as amended)				
JP		PCT	126732-345562	
Published	2022-509670			CONVERGENT DENTAL, INC.
04-Nov-2022	15-Feb-2022			
SYSTEM FOR LASER BASED TREATMENT OF SOFT TISSUE (as amended)				
KR		PCT	126732-345569	
Published	10-2022-7008131			CONVERGENT DENTAL, INC.
22-Sep-2022	11-Mar-2022			
SYSTEM FOR LASER BASED TREATMENT OF SOFT TISSUE (as amended)				
US		ORD	126732-311669	14-Aug-2040
Granted	16/993991		10945790	
16-Mar-2021	14-Aug-2020		16-Mar-2021	
SYSTEM AND METHOD FOR LASER BASED TREATMENT OF SOFT TISSUE				
US	C1	CON	126732-321419	14-Sep-2040
Granted	17/173792		11464586	CONVERGENT DENTAL, INC.
11-Oct-2022	11-Feb-2021		11-Oct-2022	
SYSTEM AND METHOD FOR LASER BASED TREATMENT OF SOFT TISSUE				



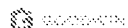
Invention Master List by Docket Number

Monday, January 16, 2023

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Country	Sub Case	Case Type	Client-Matter#	Expiration Date
Status	Application Number		Patent Number	Country Owner
Status Date	Filing Date		Issue Date	
Country Title				
US	C2	CON	126732-359797	
Pending	17/896710			CONVERGENT DENTAL, INC.
26-Aug-2022	26-Aug-2022			
SYSTEM AND METHOD FOR LASER BASED TREATMENT OF SOFT TISSUE				

COPY VIEW



Invention Master List by Docket Number

Monday, January 16, 2023

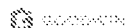
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Docket Number: CVD-023 Family Number:
 Disclosure Status: Filed Disclosure Date:
 Client: Convergent Dental
 Sub Division:
 Owner: CONVERGENT DENTAL, INC. Attorney(s): SF24, MG16, NU1, KC27

Invention Title: LASER SYSTEM FOR ENHANCING REMINERALIZATION AND STRENGTH OF HARD TISSUE
 Resp Office: BOS

COUNTRY APPLICATIONS

Country	Sub Case	Case Type	Client-Matter#	Expiration Date
Status	Application Number		Patent Number	Country Owner
Status Date	Filing Date		Issue Date	
Country Title				
CA		PCT	126732-357311	
Pending				
30-Jun-2022	30-Jun-2022			
EP		PCT	126732-357313	
Published	20648923.7			
09-Nov-2022	24-Jun-2022			
JP		PCT	126732-357312	
Pending	2022-10860			
08-Jul-2022	01-Jul-2022			
KR		PCT	126732-357316	
Published	10-2022-7026253			
20-Sep-2022	28-Jul-2022			
US		ORD	126732-297215	
Published	17/139208			
08-Jul-2021	31-Dec-2020			



Invention Master List by Docket Number

Monday, January 16, 2023

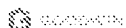
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Docket Number: CVD-024 Family Number:
Disclosure Status: Filed Disclosure Date:
Client: Convergent Dental
Sub Division:
Owner: Attorney(s): SF24, MG16, JZ9, KC27

Invention Title: SYSTEM AND METHOD FOR LASER BASED WHITENING TREATMENT OF HARD
TISSUE
Resp Office: BOS

COUNTRY APPLICATIONS

Country	Sub Case	Case Type	Client-Matter#	Expiration Date
Status	Application Number		Patent Number	Country Owner
Status Date	Filing Date		Issue Date	
Country Title				
US		ORD	126732-369091	
Pending	18/089372			CONVERGENT DENTAL, INC.
27-Dec-2022	27-Dec-2022			
US	PP	PRO	126732-336974	27-Dec-2022
Pending	63/294011			CONVERGENT DENTAL, INC.
27-Dec-2021	27-Dec-2021			
SYSTEM AND METHOD FOR LASER BASED TREATMENT OF HARD TISSUE				
WO		ORD	126732-369098	
Pending	PCT/US2022/054063			CONVERGENT DENTAL, INC.
27-Dec-2022	27-Dec-2022			



Invention Master List by Docket Number

Monday, January 16, 2023

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Docket Number: CVD-025 Family Number:
Disclosure Status: Filed Disclosure Date:
Client: Convergent Dental
Sub Division:
Owner: Attorney(s): SF24, MG16, JZ9, KC27

Invention Title: SYSTEM AND METHOD FOR LASER BASED ENDODONTIC TREATMENT
Resp Office: BOS

COUNTRY APPLICATIONS

Country	Sub Case	Case Type	Client-Matter#	Expiration Date
Status	Application Number		Patent Number	Country Owner
Status Date	Filing Date		Issue Date	
Country Title				
US	PR	PRO	126732-332989	05-May-2023
Pending	63/338680			CONVERGENT DENTAL, INC.
05-May-2022	05-May-2022			

Selection Criteria

Monday, January 16, 2023

Record Count: 18

Sort: by Docket Number
Include: Country Applications
Selection Criteria

Disclosure Date:
Client: 126732
Sub Division:
Agent:
Country Agent:
Area:
Case Number:
Inventor:

Attorney:
Owner:
Keyword:
Responsible Office:
Disclosure Status:
Case Type:
Country:
Status Codes:
Status:

All
Allowed
Granted
MCN: Track1
MCN:Allowed
MCN:Granted
MCN:Pending
MCN:Publish
Pending
Pub: Pub
Published
Track1: Pend
Track1-Pub

More ...

Client:
Sub Divisions:
Inventor:
Keywords:
Attorney:
Owner:
Agent:
Country Agents:

EXHIBIT C

TRADEMARKS

None.

COPY VIEW

EXHIBIT D

MASK WORKS

None.

COPY VIEW