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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
16/517,268	07/19/2019	Roger Ignon	EDGE.005C7	9432

20995 7590 01/10/2023

KNOBBE MARTENS OLSON & BEAR LLP
2040 MAIN STREET
FOURTEENTH FLOOR
IRVINE, CA 92614

EXAMINER
KNAUSS, CHRISTIAN D

ART UNIT	PAPER NUMBER
3771	

NOTIFICATION DATE	DELIVERY MODE
01/10/2023	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

efiling@knobbe.com
jayna.cartee@knobbe.com

UNITED STATES PATENT AND TRADEMARK OFFICE

Commissioner for Patents
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In re Patent No. 11,446,477	:	
Issue Date: 20 Sep 2022	:	
Application No. 16/517,268	:	DECISION ON PETITION
Filing or 371(c) Date: 19 Jul 2019	:	
Attorney Docket No. EDGE.005C7	:	

This is a Notice regarding the request for acceptance of a fee deficiency submission under 37 CFR 1.28(c) filed August 12, 2022.

The Office no longer investigates or rejects original or reissue applications under 37 CFR 1.56. 1098 Off. Gaz. Pat. Office 502 (January 3, 1989). Therefore, nothing in this Notice is intended to imply that an investigation was done.

The fee deficiency submission under 37 CFR 1.28(c) is **ACCEPTED**. Accordingly, status as a small entity has been removed and any future fee(s) submitted must be paid at the undiscounted rate.

Inquiries related to this communication should be directed to Paralegal Specialist Selena Hamilton at (571) 272-8825.

/SELENA HAMILTON/
Paralegal Specialist, OPET



United States Patent and Trademark Office

Office of the Chief Financial Officer

Document Code:WFEE

User :Gloria Arias

Sale Accounting Date:01/04/2023

Sale Item Reference Number	Effective Date
16517268	08/12/2022

Document Number	Fee Code	Fee Code Description	Amount Paid	Payment Method
I202314D39152989	1461	1.28(C) SUBMISSIONS - APPLIC FILE FEE	$1,450.00	Deposit Account

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APPLICATION NO.	ISSUE DATE	PATENT NO.	ATTORNEY DOCKET NO.	CONFIRMATION NO.
16/517,268	09/20/2022	11446477	EDGE.005C7	9432

20995 7590 08/31/2022

KNOBBE MARTENS OLSON & BEAR LLP
2040 MAIN STREET
FOURTEENTH FLOOR
IRVINE, CA 92614

ISSUE NOTIFICATION

The projected patent number and issue date are specified above.

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)
(application filed on or after May 29, 2000)

The Patent Term Adjustment is 0 day(s). Any patent to issue from the above-identified application will include an indication of the adjustment on the front page.

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Application Assistance Unit (AAU) of the Office of Patents Stakeholder Experience (OPSE), Stakeholder Support Division (SSD) at (571)-272-4200.

INVENTOR(s) (Please see PAIR WEB site http://pair.uspto.gov for additional inventors):

Roger Ignon, Redondo Beach, CA;
Scott Mallett, Coto De Caza, CA;
Abraham Solano, Corona, CA;
William Cohen, Los Alamitos, CA;

APPLICANT(s) (Please see PAIR WEB site http://pair.uspto.gov for additional applicants):

EDGE SYSTEMS LLC, Signal Hill, CA;

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IR103 (Rev. 10/09)

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
16/517,268	07/19/2019	Roger Ignon	EDGE.005C7	9432

7590 08/26/2022

KNOBBE MARTENS OLSON & BEAR LLP
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IRVINE, CA 92614

EXAMINER	
KNAUSS, CHRISTIAN D	

ART UNIT	PAPER NUMBER
3771	

NOTIFICATION DATE	DELIVERY MODE
08/26/2022	ELECTRONIC

NOTICE OF NON-COMPLIANT INFORMATION DISCLOSURE STATEMENT

An Information Disclosure Statement (IDS) filed 8-12-22 (both) in the above-identified application fails to meet the requirements of 37 CFR 1.97(d) for the reason(s) specified below. Accordingly, the IDS will be placed in the file, but the information referred to therein has not been considered.

The IDS is not compliant with 37 CFR 1.97(d) because:

☑ The IDS lacks a statement as specified in 37 CFR 1.97(e).

☐ The IDS lacks the fee set forth in 37 CFR 1.17(p).

☐ The IDS was filed after the issue fee was paid. Applicant may wish to consider filing a petition to withdraw the application from issue under 37 CFR 1.313(c) to have the IDS considered. See MPEP 1308.

571-272-4200 or 1-888-786-0101
Application Assistance Unit
Office of Data Management

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

First Inventor: Roger Ignon	**Conf. No.:** 9432
Appl. No.: 16/517,268	**Filed:** July 19, 2019
Examiner: Christian D. Knauss	**Art Unit:** 3771
Title: DEVICES AND METHODS FOR TREATING SKIN	

TRANSMITTAL

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Commissioner:

On August 12, 2022, Applicant paid the Issue Fee for the above-captioned application. On the same day, together with the Issue Fee payment, Applicant submitted a Notification of Error in Payment of Fees as a Small Entity and Loss of Entitlement to Small Entity Status (the "Notification") authorizing a payment of $1,450.

Applicant now submits that the payment authorization in the Notification was made in error. In accordance with MPEP 509.03 and 37 C.F.R. 1.27, the payment of any deficiency fees is not required for this application, as Applicant's status as a small entity was properly accorded when the application was filed on July 19, 2019. Applicant correctly paid the Issue Fee for this application as a large entity on August 12, 2022. Accordingly, Applicant requests that the U.S. Patent and Trademark Office ("USPTO") refrain from processing the fee payment request. If any portion of the deficiency fee payment authorized in the Notification has already been processed or will be processed in the future for this application, Applicant requests that the USPTO process a corresponding refund.

Respectfully submitted,

KNOBBE, MARTENS, OLSON & BEAR, LLP

Dated: August 16, 2022

By: /Theodore G. Papagiannis/
Theodore G. Papagiannis
Registration No. 61,546
Registered Practitioner
(949) 760-0404

56144030

Electronic Acknowledgement Receipt	
EFS ID:	46425043
Application Number:	16517268
International Application Number:	
Confirmation Number:	9432
Title of Invention:	DEVICES AND METHODS FOR TREATING SKIN
First Named Inventor/Applicant Name:	Roger Ignon
Customer Number:	20995
Filer:	Theodore G. Papagiannis/Stephanie Gonzales
Filer Authorized By:	Theodore G. Papagiannis
Attorney Docket Number:	EDGE.005C7
Receipt Date:	16-AUG-2022
Filing Date:	19-JUL-2019
Time Stamp:	19:52:35
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Transmittal Letter	EDGE005C7_Transmittal.pdf	20873 43e7e00c2ee997c3ec63b435173e606f37ad5607	no	1

Warnings:

Information:	
Total Files Size (in bytes):	20873

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

First Inventor: Roger Ignon	**Conf. No.:** 9432
Appl. No.: 16/517,268	**Filed:** July 19, 2019
Examiner: Christian D. Knauss	**Art Unit:** 3771
Title: DEVICES AND METHODS FOR TREATING SKIN	

NOTIFICATION OF ERROR IN PAYMENT OF FEES AS A SMALL ENTITY AND LOSS OF ENTITLEMENT TO SMALL ENTITY STATUS

Mail Stop Issue Fee
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Commissioner:

Applicant believes the above-referenced application is no longer entitled to status as a small entity; any prior claim for small entity status in this application under 37 CFR 1.27 is hereby withdrawn. Please update USPTO records accordingly.

The amount owed for the deficiency in fees which may have been erroneously paid as a small entity is $1,450, as itemized and calculated pursuant to 37 C.F.R. § 1.28(c)(2) in the table below.

Description	Date Fee Paid	Fee Paid	Current Fee	Fee Due
Information Disclosure Statement	Aug. 18, 2021	$130	$260	$130
Two-month Extension	Aug. 20, 2021	$320	$640	$320
Request for Continued Examination (1st Request)	Feb. 15, 2022	$680	$1,360	$680
Two-month Extension	Feb. 15, 2022	$320	$640	$320
Terminal Disclaimer	May 4, 2022	$170	$170	$0
		Total Deficiency Owed:		**$1,450**

Any delay in paying the correct amount of the fees itemized above was unintentional. Pursuant to 37 C.F.R. § 1.28(d), the present payment of deficiency operates as notification of loss of small entity status under 37 C.F.R. § 1.27(g)(2). The Office is authorized to charge any additional fees owed and requested to credit any overpayments to Deposit Account No. 11-1410.

Respectfully submitted,

KNOBBE, MARTENS, OLSON & BEAR, LLP

Dated: August 12, 2022

By: /Theodore G. Papagiannis/
Theodore G. Papagiannis
Registration No. 61,546
Attorney of Record
Customer No. 20995
(949) 760-0404

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COMMENTS ON STATEMENT OF REASONS FOR ALLOWANCE

First Inventor: Roger Ignon	**Conf. No.:** 9432
Appl. No.: 16/517,268	**Filed:** July 19, 2019
Examiner: Christian D. Knauss	**Art Unit:** 3771
Title: DEVICES AND METHODS FOR TREATING SKIN	

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

In response to the Examiner's Statement of Reasons for Allowance included in the Notice of Allowance mailed on May 13, 2022 and the Examiner's comments (e.g., in the "Allowable Subject Matter" section) included in the Office Action mailed on April 5, 2022 (collectively, the "Examiner's Statement"), Applicant respectfully submits the following comments.

To the extent that there is any implication that the patentability of the claims rests on the recitation of a single feature or certain limited features, Applicant respectfully disagrees with the Examiner's Statement, as it is the combination of features that makes the claims patentable. Further, to the extent that any feature(s) recited in the Examiner's Statement are not present in any or all of the claims due to paraphrasing or because the features are in one claim but not in others, Applicant reserves the right to disagree with the Examiner's Statement.

In addition, Applicant does not necessarily agree with any characterization of any references and/or the state of the art generally mentioned in the Examiner's Statement, including, without limitation, U.S. Publ. No. 2001/0049511 to Coleman et al.

Applicant respectfully submits that the pending claims, including the dependent claims, may also be allowable for reasons different from, or in addition to, those stated in the Examiner's Statement. Accordingly, Applicant reserves the right to argue that the claims of the present application are allowable because each of the claims recites a combination of features that are not taught or suggested by the references of record and/or any other art.

Authorization is provided to charge any additional fees, including any fees for additional extension of time, or credit overpayment to Deposit Account No. 11-1410.

Respectfully submitted,

KNOBBE, MARTENS, OLSON & BEAR, LLP

Dated: August 12, 2022

By: /Theodore G. Papagiannis/
Theodore G. Papagiannis
Registration No. 61,546
Attorney of Record
Customer No. 20995
(949) 760-0404

55756387

INFORMATION DISCLOSURE STATEMENT

First Inventor: Roger Ignon	**Conf. No.:** 9432
Appl. No.: 16/517,268	**Filed:** July 19, 2019
Examiner: Christian D. Knauss	**Art Unit:** 3771
Title: DEVICES AND METHODS FOR TREATING SKIN	

Mail Stop Issue Fee
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

References and Listing

Pursuant to 37 CFR 1.56, an Information Disclosure Statement listing references is provided herewith. Copies of any listed foreign and non-patent literature references are being submitted. Any foreign references may also include English abstract(s) and/or machine translation(s), but no representation is made as to their accuracy. If the Examiner would like additional information regarding these references or if anything is unclear, the Examiner is invited to contact the undersigned for assistance. Identification herein is not an admission that any of the references are prior art to the above captioned application.

No Disclaimers

To the extent that anything in the Information Disclosure Statement or the listed references could be construed as a disclaimer of any subject matter supported by the present application, Applicant hereby rescinds and retracts such disclaimer.

Patents and Patent Applications of Assignee

Applicant wishes to draw the Examiner's attention to the following U.S. patents and patent applications of the present application's assignee.

Attorney Docket No.	App. No. (Pat. No., if appl.)	Filing Date	Title
EDGE.004A	09/648,025 (Pat. No. 6,641,591)	Aug. 25, 2000	INSTRUMENTS AND TECHNIQUES FOR CONTROLLED REMOVAL OF EPIDERMAL LAYERS
EDGE.004C1	10/699,747 (Pat. No. 7,789,886)	Nov. 3, 2003	INSTRUMENTS AND TECHNIQUES FOR CONTROLLED REMOVAL OF EPIDERMAL LAYERS
EDGE.004C1DV1	11/739,615 (Pat. No. 8,337,513)	Apr. 24, 2007	INSTRUMENTS AND TECHNIQUES FOR CONTROLLED REMOVAL OF EPIDERMAL LAYERS
EDGE.004C2	11/417,709 (Pat. No. 8,066,716)	May 3, 2006	INSTRUMENTS AND TECHNIQUES FOR CONTROLLED REMOVAL OF EPIDERMAL LAYERS
EDGE.004C3	11/417,396 (Pat. No. 7,678,120)	May 3, 2006	INSTRUMENTS AND TECHNIQUES FOR CONTROLLED REMOVAL OF EPIDERMAL LAYERS
EDGE.004C5	14/702,509 (Pat. No. 9,775,646)	May 1, 2015	DEVICES AND SYSTEMS FOR TREATING THE SKIN USING VACUUM

Attorney Docket No.	App. No. (Pat. No., if appl.)	Filing Date	Title
EDGE.004C6	14/702,486 (Pat. No. 9,468,464)	May 1, 2015	METHODS FOR TREATING THE SKIN USING VACUUM
EDGE.005A	11/392,348 (Pat. No. 8,048,089)	Mar. 29, 2006	APPARATUS AND METHODS FOR TREATING THE SKIN
EDGE.005C1	13/267,554 (Pat. No. 9,474,886)	Oct. 6, 2011	REMOVABLE TIPS FOR SKIN TREATMENT SYSTEMS
EDGE.005C2	14/698,673 (Pat No. 9,550,052)	Apr. 28, 2015	CONSOLE SYSTEM FOR THE TREATMENT OF SKIN
EDGE.005C3	14/698,713 (Pat. No. 9,662,482)	Apr. 28, 2015	METHODS AND SYSTEMS FOR EXTRACTION OF MATERIALS FROM SKIN
EDGE.005C4	14/700,789 (Pat. No. 9,814,868)	Apr. 30, 2015	TIP WITH EMBEDDED MATERIALS FOR SKIN TREATMENT
EDGE.005C5	15/660,750 (Pat. No. 10/357,641)	Jul. 26, 2017	TIPS FOR SKIN TREATMENT DEVICE
EDGE.005C6	15/660,777 (Pat. No. 10/357,642)	Jul. 26, 2017	REMOVABLE TIPS FOR USE WITH SKIN TREATMENT SYSTEMS
EDGE.005C7	**16/517,268 (*present application*)**	**July 19, 2019**	**DEVICES AND METHODS FOR TREATING SKIN**
EDGE.005C8	17/165,820	Feb. 2, 2021	DEVICES AND METHODS FOR TREATING SKIN
EDGE.005C9	17/165,807	Feb. 2, 2021	DEVICES AND METHODS FOR TREATING SKIN
EDGE.006A	09/294,254 (Pat. No. 6,162,232)	Apr. 19, 1999	INSTRUMENTS AND TECHNIQUES FOR HIGH-VELOCITY FLUID ABRASION OF EPIDERMAL LAYERS WITH SKIN COOLING
EDGE.007A	09/475,480 (Pat. No. 6,299,620)	Dec. 30, 1999	INSTRUMENTS AND TECHNIQUES FOR INDUCING NEOCOLLAGENESIS IN SKIN TREATMENTS
EDGE.008A	09/475,479 (Pat. No. 6,387,103)	Dec. 30, 1999	INSTRUMENTS AND TECHNIQUES FOR INDUCING NEOCOLLAGENESIS IN SKIN TREATMENTS
EDGE.022A	11/370,200	Mar. 7, 2006	MICRODERMABRASION METHOD AND APPARATUS
EDGE.044A	12/362,353 (Pat. No. 9,056,193)	Jan. 29, 2009	APPARATUS AND METHOD FOR TREATING THE SKIN
EDGE.044C1	14/734,995 (Pat. No. 11,020,577)	Jun. 9, 2015	DEVICES AND SYSTEMS FOR TREATING SKIN SURFACES
EDGE.044C2	17/332,897	May 27, 2021	DEVICES, SYSTEMS, AND METHODS FOR TREATING THE SKIN
EDGE.044CP1	12/832,663 (Pat. No. 8,814,836)	Jul 8, 2010	DEVICES, SYSTEMS AND METHODS FOR TREATING THE SKIN USING TIME-RELEASE SUBSTANCES
EDGE.044P1C1	14/455,762 (Pat. No. 9,642,997)	Aug. 8, 2014	DEVICES FOR TREATING SKIN USING TREATMENT MATERIALS LOCATED ALONG A TIP
EDGE.044P1C2	15/588,102 (Pat. No. 10,556,097)	May 5, 2017	DEVICES FOR TREATING SKIN USING TREATMENT MATERIALS LOCATED ALONG A TIP
EDGE.044P1C3	16/784,850	Feb. 7, 2020	DEVICES AND METHODS FOR TREATING SKIN
EDGE.047A	12/346,582 (Pat. No. 8,343,116)	Dec. 30, 2008	APPARATUS AND METHOD FOR TREATING THE SKIN
EDGE.047C1	13/620,376 (Pat. No. 9,486,615)	Sep. 14, 2012	MICRODERMABRASION APPARATUS AND METHOD
EDGE.047C2	15/344,357 (Pat. No. 10,556,096)	Nov. 4, 2016	DEVICES AND METHODS FOR SKIN TREATMENT
EDGE.047C3	16/784,044	Feb. 6, 2020	DEVICES AND METHODS FOR SKIN TREATMENT
EDGE.050A	09/540,945 (Pat. No. 6,592,595)	Mar. 31, 2000	MICRODERMABRASION AND SUCTION MASSAGE APPARATUS AND METHOD

Attorney Docket No.	App. No. (Pat. No., if appl.)	Filing Date	Title
EDGE.050C1	09/698,409 (Pat. No. 6,527,783)	Oct. 27, 2000	MICRODERMABRASION AND SUCTION MASSAGE APPARATUS AND METHOD
EDGE.050DV1	10/177,173 (Pat. No. 6,673,082)	Jun. 20, 2002	MICRODERMABRASION HANDPIECE WITH SUPPLY AND RETURN LUMENS
EDGE.051A	10/315,478 (Pat. No. 6,942,649)	Dec. 10, 2002	MICRODERMABRASION FLUID APPLICATION SYSTEM AND METHOD
EDGE.052A	09/699,220 (Pat. No. 6,629,983)	Oct. 27, 2000	APPARATUS AND METHOD FOR SKIN/SURFACE ABRASION
EDGE.065A	14/211,089 (Pat. No. 10,238,812)	Mar. 14, 2014	SKIN TREATMENT SYSTEMS AND METHODS USING NEEDLES
EDGE.065C1	16/363,310	Mar. 25, 2019	SKIN TREATMENT SYSTEMS AND METHODS USING NEEDLES
EDGE.077A	14/211,290 (Pat. No. 9,566,088)	Mar. 14, 2014	DEVICES, SYSTEMS AND METHODS FOR TREATING THE SKIN
EDGE.077C1	15/430,209 (Pat. No. 10,251,675)	Feb. 10, 2017	DEVICES, SYSTEMS AND METHODS FOR TREATING THE SKIN
EDGE.077C2	16/376,956	Apr. 5, 2019	DEVICES, SYSTEMS AND METHODS FOR TREATING THE SKIN
EDGE.077NP	14/774,641 (Pat. No. 10,172,644)	Sep. 10, 2015	DEVICES, SYSTEMS AND METHODS FOR TREATING THE SKIN
EDGE.077NPC1	16/241,572 (Pat. No. 10,993,743)	Jan. 7, 2019	DEVICES, SYSTEMS AND METHODS FOR TREATING THE SKIN
EDGE.077NPC2	17/163,128	Jan. 29, 2021	DEVICES, SYSTEMS AND METHODS FOR TREATING THE SKIN
EDGE.077NPC3	17/163,199	Jan. 29, 2021	DEVICES, SYSTEMS AND METHODS FOR TREATING THE SKIN
EDGE.077NPC4	17/163,237 (Pat. No. 11,202,657)	Jan. 29, 2021	DEVICES, SYSTEMS AND METHODS FOR TREATING THE SKIN
EDGE.077NPC5	17/163,240 (Pat. No. 11,213,321)	Jan. 29, 2021	DEVICES, SYSTEMS AND METHODS FOR TREATING THE SKIN
EDGE.090A	14/998,375 (Pat. No. 9,498,610)	Dec. 23, 2015	DEVICES AND METHODS FOR TREATING THE SKIN USING A ROLLERBALL OR A WICKING MEMBER
EDGE.090C1	15/354,754 (Pat. No. 10,035,007)	Nov. 17, 2016	DEVICES AND METHODS FOR TREATING THE SKIN
EDGE.090C2	16/040,397	July 19, 2018	DEVICES AND METHODS FOR TREATING THE SKIN
EDGE.090C3	17/164,580	Feb. 1, 2021	DEVICES AND METHODS FOR TREATING THE SKIN
EDGE.090P1	15/498,416 (Pat. No. 10,179,229)	Apr. 26, 2017	DEVICES AND METHODS FOR TREATING THE SKIN USING A POROUS MEMBER
EDGE.090P1C1	16/246,306 (Pat. No. 11,224,728)	Jan. 11, 2019	DEVICES AND METHODS FOR TREATING THE SKIN USING A POROUS MEMBER
EDGE.090P1C2	17/576,888	Jan. 14, 2022	DEVICES AND METHODS FOR TREATING THE SKIN
EDGE.091A	15/204,939 (Pat. No. 11,241,357)	Jul. 7, 2016	DEVICES, SYSTEMS AND METHODS FOR PROMOTING HAIR GROWTH
EDGE.091C1	17/592,432	Feb. 3, 2022	DEVICES, SYSTEMS AND METHODS FOR IMPROVING SCALP HEALTH
EDGE.167PR	63/254,455	Oct. 11, 2021	DEVICES, SYSTEMS AND METHODS FOR TREATING THE SKIN
EDGE.171PR	63/243,053	Sept. 10. 2021	DEVICES, SYSTEMS AND METHODS FOR TREATING THE SKIN
EDGE.172DA	29/811,066	Oct. 11, 2021	SKIN TREATMENT SYSTEM

Attorney Docket No.	App. No. (Pat. No., if appl.)	Filing Date	Title
EDGE.173DA	29/807,430	Sep. 10, 2021	SKIN TREATMENT DEVICE
EDGE.174DA	29/807,428	Sep. 10, 2021	CONTAINER FOR A SKIN TREATMENT DEVICE
EDGE.179DA	29/829,476	Mar. 4, 2022	LIGHT THERAPY DEVICE FOR SKIN CARE
EDGE.180DA	29/811,070	Oct. 11, 2021	SKIN TREATMENT TIP

Copies of these patents and patent applications, including any pending claims, office actions, allowances and/or other communications, are available through PALM and/or PAIR. However, if the Examiner so requests, Applicant will be happy to provide the Examiner with copies of any applications, pending claims, office actions, allowances, communications or any other documents, at any time.

Further, Applicant notes for the record that the claims of the present application are different and may be broader in scope than the claims in any related patent or application. To the extent that any statements made in a related case (such as amendments or characterizations regarding the scope of a claim or prior art) could be construed as a disclaimer of any subject matter supported by the present disclosure, Applicant rescinds and retracts such disclaimer. Accordingly, any listed or referenced prior art may need to be re-visited. Further, any objections or rejections made by the Examiner in the issued and allowed cases identified above may need to be re-visited.

Timing of Disclosure

This Information Disclosure Statement is being filed after the mailing date of a final action, Notice of Allowance, or other action that closes prosecution. If the references listed in this IDS cannot be officially considered, please place these references in the file in accordance with 37 CFR 1.97(i). The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment, to Account No. 11-1410.

Respectfully submitted,

KNOBBE, MARTENS, OLSON & BEAR, LLP

Dated: August 12, 2022

By: /Theodore G. Papagiannis/
Theodore G. Papagiannis
Registration No. 61,546
Registered Practitioner
(949) 760-0404

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PTO/SB/08 Equivalent

INFORMATION DISCLOSURE STATEMENT BY APPLICANT	Application No.	16/517,268
	Filing Date	July 19, 2019
	First Named Inventor	Roger Ignon
	Art Unit	3771
(Multiple sheets used when necessary)	Examiner	Christian D. Knauss
SHEET 1 OF 1	Attorney Docket No.	EDGE.005C7

U.S. PATENT DOCUMENTS					
Examiner Initials	Cite No.	Document Number *Number - Kind Code (if known)* Example: 1,234,567 B1	Publication Date MM-DD-YYYY	Name of Patentee or Applicant	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear

FOREIGN PATENT DOCUMENTS						
Examiner Initials	Cite No.	Foreign Patent Document *Country Code-Number-Kind Code* Example: JP 1234567 A1	Publication Date MM-DD-YYYY	Name of Patentee or Applicant	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear	T[1]
	1	EP 2206483	07-14-2010	Andrea Uterstaedt		X Abstract
	2	WO 2013/030117	03-07-2013	Medic Activ Vertriebs GMBH		

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T[1]

Examiner Signature	Date Considered
*__Examiner:__ Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

T[1] - Place a check mark in this area when an English language Translation is attached.

APPLICATION DATA SHEET

Application Information

Application Number:	16/517268
Filing Date:	July 19, 2019
Title:	DEVICES AND METHODS FOR TREATING SKIN
Attorney Docket Number:	EDGE.005C7

Correspondence Information

Correspondence Customer Number:	20995
Phone Number:	(949) 760-0404
Fax Number:	(949) 760-9502
E-Mail Address:	efiling@knobbe.com

Representative Information

Representative Customer Number:	20995

Applicant Information

Applicant Name:	~~EDGE SYSTEMS LLC~~	HYDRAFACIAL LLC
Address 1:	~~2277 Redondo Avenue~~	2165 E. Spring Street
City:	~~Signal Hill~~	Long Beach
State or Province:	CA	
Country:	US	
Postal or Zip Code:	~~90755~~	90806

Dated: August 12, 2022

By: /Theodore G. Papagiannis/
Theodore G. Papagiannis
Registration No. 61,546
Registered Practitioner
Customer No. 20995
(949) 760-0404

Electronic Patent Application Fee Transmittal

Application Number:	16517268
Filing Date:	19-Jul-2019
Title of Invention:	DEVICES AND METHODS FOR TREATING SKIN
First Named Inventor/Applicant Name:	Roger Ignon
Filer:	Theodore G. Papagiannis/Caroline Bialeck
Attorney Docket Number:	EDGE.005C7

Filed as Large Entity

Filing Fees for Utility under 35 USC 111(a)

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Basic Filing:				
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
UTILITY APPL ISSUE FEE	1501	1	1200	1200

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Extension-of-Time:				
Miscellaneous:				
			Total in USD ($)	**1200**

Electronic Acknowledgement Receipt	
EFS ID:	46405567
Application Number:	16517268
International Application Number:	
Confirmation Number:	9432
Title of Invention:	DEVICES AND METHODS FOR TREATING SKIN
First Named Inventor/Applicant Name:	Roger Ignon
Customer Number:	20995
Filer:	Theodore G. Papagiannis/Chris Esparza
Filer Authorized By:	Theodore G. Papagiannis
Attorney Docket Number:	EDGE.005C7
Receipt Date:	12-AUG-2022
Filing Date:	19-JUL-2019
Time Stamp:	20:33:03
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	CARD
Payment was successfully received in RAM	$1200
RAM confirmation Number	E20228BK34140814
Deposit Account	111410
Authorized User	Chris Esparza
The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows: 37 CFR 1.16 (National application filing, search, and examination fees) 37 CFR 1.17 (Patent application and reexamination processing fees)	

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Issue Fee Payment (PTO-85B)	EDGE005C7_Issue_Fee_Transmittal.pdf	201682 0df18997200a81842837dd6adaba225debe0bd4e	no	1
Warnings:					
Information:					
2	Foreign Reference	EP2206483A1_wTrans.pdf	2997163 aeae36d1b03779bfba6094dd480ac72cc213714f	no	58
Warnings:					
Information:					
3	Foreign Reference	WO2013030117A2.pdf	5605544 ea5a6ddff05722f53ee1f9a27e4004cc24a438a9	no	76
Warnings:					
Information:					
4	Miscellaneous Incoming Letter	EDGE005C7_GeneralTransmittal.pdf	80384 e6c8100a0db63b2ddfda4ab5abd7524e3ec5e21a	no	1
Warnings:					
Information:					
5	Notification of loss of entitlement to small entity status	EDGE005C7_EntityChange.pdf	85640 d5d9e40f07de6d2073611203fd3520c0601fead9	no	1
Warnings:					
Information:					
6	Miscellaneous Incoming Letter	EDGE005C7_Comments_on_Examiners_Statement_of_Reasons_for_Allowance.pdf	20615 0243a940c2a5b321f4a4393760fce5707ba0b744	no	2
Warnings:					
Information:					

7		EDGE005C7_IDS.pdf	70068 eac7f378cf08bb6dc4fe6857e6b30f3c2a85ca77	yes	5
	Multipart Description/PDF files in .zip description				
	Document Description		**Start**	**End**	
	Transmittal Letter		1	4	
	Information Disclosure Statement (IDS) Form (SB08)		5	5	
Warnings:					
Information:					
8	Application Data Sheet	EDGE005C7_Corrected_ADS.pdf	35236 e1cc25ef036c72e734de288c6ec36c58ec0dcc62	no	2
Warnings:					
Information:					
This is not an USPTO supplied ADS fillable form					
9	Fee Worksheet (SB06)	fee-info.pdf	38023 095dd78ff295f705ed997bd9e16e15e3a423b894	no	2
Warnings:					
Information:					
		Total Files Size (in bytes):	9134355		

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111
If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.
National Stage of an International Application under 35 U.S.C. 371
If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.
New International Application Filed with the USPTO as a Receiving Office
If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), by mail or fax, or via EFS-Web.

By mail, send to: Mail Stop ISSUE FEE
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

By fax, send to: (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)

20995 7590 05/13/2022
KNOBBE MARTENS OLSON & BEAR LLP
2040 MAIN STREET
FOURTEENTH FLOOR
IRVINE, CA 92614

Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

Certificate of Mailing or Transmission

I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being transmitted to the USPTO via EFS-Web or by facsimile to (571) 273-2885, on the date below.

(Typed or printed name)
(Signature)
(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
16/517,268	07/19/2019	Roger Ignon	EDGE.005C7	9432

TITLE OF INVENTION: DEVICES AND METHODS FOR TREATING SKIN

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	SMALL	~~$600~~ $1,200	$0.00	$0.00	~~$600~~ $1,200	08/15/2022

EXAMINER	ART UNIT	CLASS-SUBCLASS
KNAUSS, CHRISTIAN D	3771	606-131000

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).

❑ Change of correspondence address (or Change of Correspondence Address form PTO/AIA/122 or PTO/SB/122) attached.

❑ "Fee Address" indication (or "Fee Address" Indication form PTO/AIA/47 or PTO/SB/47; Rev 03-02 or more recent) attached. **Use of a Customer Number is required.**

2. For printing on the patent front page, list
(1) The names of up to 3 registered patent attorneys or agents OR, alternatively,
(2) The name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.

1 Knobbe, Martens,
2 Olson & Bear, LLP
3

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document must have been previously recorded, or filed for recordation, as set forth in 37 CFR 3.11 and 37 CFR 3.81(a). Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE: HydraFacial LLC

(B) RESIDENCE: (CITY and STATE OR COUNTRY): Long Beach, CA

Please check the appropriate assignee category or categories (will not be printed on the patent) : ❑ Individual ☒ Corporation or other private group entity ❑ Government

4a. Fees submitted: ☒ Issue Fee ❑ Publication Fee (if required) ❑ Advance Order - # of Copies _____

4b. Method of Payment: *(Please first reapply any previously paid fee shown above)*

☒ Electronic Payment via EFS-Web ❑ Enclosed check ❑ Non-electronic payment by credit card (Attach form PTO-2038)

☒ The Director is hereby authorized to charge the required fee(s), ~~any deficiency~~, or credit any overpayment to Deposit Account No. _____

5. **Change in Entity Status** (from status indicated above)

❑ Applicant certifying micro entity status. See 37 CFR 1.29

❑ Applicant asserting small entity status. See 37 CFR 1.27

☒ Applicant changing to regular undiscounted fee status.

NOTE: Absent a valid certification of Micro Entity Status (see forms PTO/SB/15A and 15B), issue fee payment in the micro entity amount will not be accepted at the risk of application abandonment.
NOTE: If the application was previously under micro entity status, checking this box will be taken to be a notification of loss of entitlement to micro entity status.
NOTE: Checking this box will be taken to be a notification of loss of entitlement to small or micro entity status, as applicable.

NOTE: This form must be signed in accordance with 37 CFR 1.31 and 1.33. See 37 CFR 1.4 for signature requirements and certifications.

Authorized Signature _____ Date August 12, 2022

Typed or printed name Theodore G. Papagiannis Registration No. 61,546

Please Direct All Correspondence to Customer Number 20995

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

First Inventor: Roger Ignon	**Conf. No.:** 9432
Appl. No.: 16/517,268	**Filed:** July 19, 2019
Examiner: Christian D. Knauss	**Art Unit:** 3771
Title: DEVICES AND METHODS FOR TREATING SKIN	

TRANSMITTAL ACCOMPANYING ISSUE FEE PAYMENT

Mail Stop Issue Fee
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Commissioner:

The following are being submitted in the above-referenced application:

(X) An executed Issue Fee Transmittal, PTOL-85 and the accompanying fee.

(X) Comments on Statement of Reasons for Allowance.

(X) An Information Disclosure Statement.

(X) A Corrected Application Data Sheet to update the name of Applicant. Applicant hereby requests that the Office issue an Updated Filing Receipt to update information identified on the Corrected Application Data Sheet filed herewith.

(X) A Notification of Error in Payment of Fees as a Small Entity and Loss of Entitlement to Small Entity Status.

Authorization is provided to charge any additional fees, including any fees for additional extension of time, or credit overpayment to Deposit Account No. 11-1410.

Respectfully submitted,

KNOBBE, MARTENS, OLSON & BEAR, LLP

Dated: August 12, 2022

By: /Theodore G. Papagiannis/
Theodore G. Papagiannis
Registration No. 61,546
Attorney of Record
Customer No. 20995
(949) 760-0404

56128376

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

NOTICE OF ALLOWANCE AND FEE(S) DUE

20995 7590 05/13/2022

KNOBBE MARTENS OLSON & BEAR LLP
2040 MAIN STREET
FOURTEENTH FLOOR
IRVINE, CA 92614

EXAMINER
KNAUSS, CHRISTIAN D

ART UNIT	PAPER NUMBER
3771	

DATE MAILED: 05/13/2022

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
16/517,268	07/19/2019	Roger Ignon	EDGE.005C7	9432

TITLE OF INVENTION: DEVICES AND METHODS FOR TREATING SKIN

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	SMALL	$600	$0.00	$0.00	$600	08/15/2022

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the ENTITY STATUS shown above. If the ENTITY STATUS is shown as SMALL or MICRO, verify whether entitlement to that entity status still applies.

If the ENTITY STATUS is the same as shown above, pay the TOTAL FEE(S) DUE shown above.

If the ENTITY STATUS is changed from that shown above, on PART B - FEE(S) TRANSMITTAL, complete section number 5 titled "Change in Entity Status (from status indicated above)".

For purposes of this notice, small entity fees are 1/2 the amount of undiscounted fees, and micro entity fees are 1/2 the amount of small entity fees.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Maintenance fees are due in utility patents issuing on applications filed on or after Dec. 12, 1980. It is patentee's responsibility to ensure timely payment of maintenance fees when due. More information is available at www.uspto.gov/PatentMaintenanceFees.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), by mail or fax, or via EFS-Web.

By mail, send to: Mail Stop ISSUE FEE
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

By fax, send to: (571)-273-2885

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CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)

20995 7590 05/13/2022

KNOBBE MARTENS OLSON & BEAR LLP
2040 MAIN STREET
FOURTEENTH FLOOR
IRVINE, CA 92614

Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

Certificate of Mailing or Transmission

I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being transmitted to the USPTO via EFS-Web or by facsimile to (571) 273-2885, on the date below.

(Typed or printed name)
(Signature)
(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
16/517,268	07/19/2019	Roger Ignon	EDGE.005C7	9432

TITLE OF INVENTION: DEVICES AND METHODS FOR TREATING SKIN

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	SMALL	$600	$0.00	$0.00	$600	08/15/2022

EXAMINER	ART UNIT	CLASS-SUBCLASS
KNAUSS, CHRISTIAN D	3771	606-131000

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).

❑ Change of correspondence address (or Change of Correspondence Address form PTO/AIA/122 or PTO/SB/122) attached.

❑ "Fee Address" indication (or "Fee Address" Indication form PTO/AIA/47 or PTO/SB/47; Rev 03-02 or more recent) attached. **Use of a Customer Number is required.**

2. For printing on the patent front page, list
(1) The names of up to 3 registered patent attorneys or agents OR, alternatively,
(2) The name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.

1 _____
2 _____
3 _____

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document must have been previously recorded, or filed for recordation, as set forth in 37 CFR 3.11 and 37 CFR 3.81(a). Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE (B) RESIDENCE: (CITY and STATE OR COUNTRY)

Please check the appropriate assignee category or categories (will not be printed on the patent) : ❑ Individual ❑ Corporation or other private group entity ❑ Government

4a. Fees submitted: ❑Issue Fee ❑Publication Fee (if required) ❑Advance Order - # of Copies _____

4b. Method of Payment: *(Please first reapply any previously paid fee shown above)*

❑ Electronic Payment via EFS-Web ❑ Enclosed check ❑ Non-electronic payment by credit card (Attach form PTO-2038)

❑ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment to Deposit Account No. _____

5. **Change in Entity Status** (from status indicated above)

❑ Applicant certifying micro entity status. See 37 CFR 1.29

❑ Applicant asserting small entity status. See 37 CFR 1.27

❑ Applicant changing to regular undiscounted fee status.

NOTE: Absent a valid certification of Micro Entity Status (see forms PTO/SB/15A and 15B), issue fee payment in the micro entity amount will not be accepted at the risk of application abandonment.
NOTE: If the application was previously under micro entity status, checking this box will be taken to be a notification of loss of entitlement to micro entity status.
NOTE: Checking this box will be taken to be a notification of loss of entitlement to small or micro entity status, as applicable.

NOTE: This form must be signed in accordance with 37 CFR 1.31 and 1.33. See 37 CFR 1.4 for signature requirements and certifications.

Authorized Signature _____ Date _____

Typed or printed name _____ Registration No. _____

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
16/517,268	07/19/2019	Roger Ignon	EDGE.005C7	9432

20995 7590 05/13/2022

KNOBBE MARTENS OLSON & BEAR LLP
2040 MAIN STREET
FOURTEENTH FLOOR
IRVINE, CA 92614

EXAMINER	
KNAUSS, CHRISTIAN D	
ART UNIT	**PAPER NUMBER**
3771	

DATE MAILED: 05/13/2022

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)
(Applications filed on or after May 29, 2000)

The Office has discontinued providing a Patent Term Adjustment (PTA) calculation with the Notice of Allowance.

Section 1(h)(2) of the AIA Technical Corrections Act amended 35 U.S.C. 154(b)(3)(B)(i) to eliminate the requirement that the Office provide a patent term adjustment determination with the notice of allowance. See Revisions to Patent Term Adjustment, 78 Fed. Reg. 19416, 19417 (Apr. 1, 2013). Therefore, the Office is no longer providing an initial patent term adjustment determination with the notice of allowance. The Office will continue to provide a patent term adjustment determination with the Issue Notification Letter that is mailed to applicant approximately three weeks prior to the issue date of the patent, and will include the patent term adjustment on the patent. Any request for reconsideration of the patent term adjustment determination (or reinstatement of patent term adjustment) should follow the process outlined in 37 CFR 1.705.

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

OMB Clearance and PRA Burden Statement for PTOL-85 Part B

The Paperwork Reduction Act (PRA) of 1995 requires Federal agencies to obtain Office of Management and Budget approval before requesting most types of information from the public. When OMB approves an agency request to collect information from the public, OMB (i) provides a valid OMB Control Number and expiration date for the agency to display on the instrument that will be used to collect the information and (ii) requires the agency to inform the public about the OMB Control Number's legal significance in accordance with 5 CFR 1320.5(b).

The information collected by PTOL-85 Part B is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 30 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450. Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

Privacy Act Statement

The Privacy Act of 1974 (P.L. 93-579) requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether disclosure of these records is required by the Freedom of Information Act.
2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspection or an issued patent.
9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

Notice of Allowability	Application No. 16/517,268	Applicant(s) Ignon et al.	
	Examiner CHRISTIAN D KNAUSS	Art Unit 3771	AIA (FITF) Status No

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☑ This communication is responsive to the response filed 5/4/22.
   ☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on _____.

2. ☐ An election was made by the applicant in response to a restriction requirement set forth during the interview on _____; the restriction requirement and election have been incorporated into this action.

3. ☑ The allowed claim(s) is/are 2-21 . As a result of the allowed claim(s), you may be eligible to benefit from the **Patent Prosecution Highway** program at a participating intellectual property office for the corresponding application. For more information, please see **http://www.uspto.gov/patents/init_events/pph/index.jsp** or send an inquiry to **PPHfeedback@uspto.gov.**

4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

   Certified copies:

   a) ☐ All b) ☐ Some* c) ☐ None of the:

   1. ☐ Certified copies of the priority documents have been received.
   2. ☐ Certified copies of the priority documents have been received in Application No. _____ .
   3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

   * Certified copies not received: _____ .

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
   ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____ .

   Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date _____.
3. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material _____.
4. ☐ Interview Summary (PTO-413), Paper No./Mail Date. _____.
5. ☐ Examiner's Amendment/Comment
6. ☑ Examiner's Statement of Reasons for Allowance
7. ☐ Other _____.

/C.D.K/ Examiner, Art Unit 3771	/DARWIN P EREZO/ Supervisory Patent Examiner, Art Unit 3771

DETAILED ACTION

Notice of Pre-AIA or AIA Status

1. The present application is being examined under the pre-AIA first to invent provisions.

Status of Claims

2. Claims 2-21 are pending in the application. Claim 1 has been canceled.

Terminal Disclaimer

3. The terminal disclaimer filed on 5/4/22 disclaiming the terminal portion of any patent granted on this application which would extend beyond the expiration date of US Patent No. 9,550,052 B2 has been reviewed and is accepted. The terminal disclaimer has been recorded.

Allowable Subject Matter

4. Claims 2-21 are allowed.

5. The following is an examiner's statement of reasons for allowance: Claims 2-21 were subject to Non-Statutory Double Patenting rejections in the previous Office Action. A terminal disclaimer in compliance with 37 CFR 1.321(c) or 1.321(d) has been timely filed to overcome the Non-Statutory Double Patenting rejections from the previous Office Action. The reasons for allowance over the prior art of record were included in the previous Office Action.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to CHRISTIAN D KNAUSS whose telephone number is (571)272-8641. The examiner can normally be reached M-F 12:30-8:30.

Examiner interviews are available via telephone, in-person, and video conferencing using a USPTO supplied web-based collaboration tool. To schedule an interview, applicant is encouraged to use the USPTO Automated Interview Request (AIR) at http://www.uspto.gov/interviewpractice.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Darwin Erezo can be reached on 571-272-4695. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of published or unpublished applications may be obtained from Patent Center. Unpublished application information in Patent Center is available to registered users. To file and manage patent submissions in Patent Center, visit: https://patentcenter.uspto.gov. Visit https://www.uspto.gov/patents/apply/patent-center for more information about Patent Center and https://www.uspto.gov/patents/docx for information about filing in DOCX format. For additional questions, contact the Electronic Business Center (EBC) at 866-217-9197

(toll-free). If you would like assistance from a USPTO Customer Service

Representative, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/C.D.K/
Examiner, Art Unit 3771

/DARWIN P EREZO/
Supervisory Patent Examiner, Art Unit 3771

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	16/517,268	Ignon et al.
	Examiner	Art Unit
	CHRISTIAN D KNAUSS	3771

CPC							
Symbol						Type	Version
A61M	/	35	/	003		F	2013-01-01
A61B	/	17	/	54		I	2013-01-01
A61B	/	50	/	10		I	2016-02-01
A61B	/	50	/	13		I	2016-02-01
A61M	/	1	/	962		I	2021-05-01
A61B	/	17	/	545		I	2013-01-01
A61B	/	17	/	3205		I	2013-01-01
A61B	/	17	/	50		I	2013-01-01
A61M	/	37	/	00		I	2013-01-01
A61B	/	2017	/	00199		A	2013-01-01
A61B	/	2017	/	00761		A	2013-01-01
A61N	/	5	/	0616		A	2013-01-01
A61B	/	2217	/	005		A	2013-01-01
A61B	/	2017	/	320004		A	2013-01-01
A61M	/	2037	/	0007		A	2013-01-01

CPC Combination Sets								
Symbol						Type	Set	Ranking	Version
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/C.D.K./ Examiner, Art Unit 3771 (Assistant Examiner)	08 May 2022 (Date)	**Total Claims Allowed:** 20	
/DARWIN P EREZO/ Supervisory Patent Examiner, Art Unit 3771 (Primary Examiner)	09 May 2022 (Date)	O.G. Print Claim(s) 1	O.G. Print Figure 1

U.S. Patent and Trademark Office — Part of Paper No.: 20220508

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	16/517,268	Ignon et al.
	Examiner	**Art Unit**
	CHRISTIAN D KNAUSS	3771

INTERNATIONAL CLASSIFICATION				
CLAIMED				
A61B17/54	/	17	/	54
A61B17/00	/	17	/	00

NON-CLAIMED				
	/		/	

US ORIGINAL CLASSIFICATION	
CLASS	**SUBCLASS**

CROSS REFERENCES(S)						
CLASS	**SUBCLASS (ONE SUBCLASS PER BLOCK)**					

/C.D.K./ Examiner, Art Unit 3771 (Assistant Examiner)	08 May 2022 (Date)	**Total Claims Allowed:** 20	
/DARWIN P EREZO/ Supervisory Patent Examiner, Art Unit 3771 (Primary Examiner)	09 May 2022 (Date)	O.G. Print Claim(s) 1	O.G. Print Figure 1

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	16/517,268	Ignon et al.
	Examiner	**Art Unit**
	CHRISTIAN D KNAUSS	3771

☑ Claims renumbered in the same order as presented by applicant ☐ CPA ☑ T.D. ☐ R.1.47

CLAIMS

Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original

/C.D.K./ Examiner, Art Unit 3771 (Assistant Examiner)	08 May 2022 (Date)	**Total Claims Allowed:** 20	
/DARWIN P EREZO/ Supervisory Patent Examiner, Art Unit 3771 (Primary Examiner)	09 May 2022 (Date)	O.G. Print Claim(s) 1	O.G. Print Figure 1

U.S. Patent and Trademark Office Part of Paper No.: 20220508

Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	16/517,268	Ignon et al.
	Examiner	Art Unit
	CHRISTIAN D KNAUSS	3771

CPC - Searched*		
Symbol	**Date**	**Examiner**
A61B17/50, 54, 545	03/12/2021	CDK
A61B2017/00017, 00199, 00743, 00747, 00761	03/12/2021	CDK
A61B19/0248	03/12/2021	CDK
A61B2019/025	03/12/2021	CDK
A61B2217/005, 007	03/12/2021	CDK
A61M35/003	03/12/2021	CDK
A61N5/0616	03/12/2021	CDK
A61B50/10, 13	03/12/2021	CDK

CPC Combination Sets - Searched*		
Symbol	**Date**	**Examiner**

US Classification - Searched*			
Class	**Subclass**	**Date**	**Examiner**

* See search history printout included with this form or the SEARCH NOTES box below to determine the scope of the search.

/C.D.K/ Examiner, Art Unit 3771	

Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	16/517,268	Ignon et al.
	Examiner	Art Unit
	CHRISTIAN D KNAUSS	3771

Search Notes		
Search Notes	**Date**	**Examiner**
Performed inventor and assignee searches	03/12/2021	CDK
Performed SEARCH	03/12/2021	CDK
Performed backward/forward searches	03/12/2021	CDK
Performed CPC subgroup/text searches and combinations	03/12/2021	CDK
Updated SEARCH	09/08/2021	CDK
Updated SEARCH	03/23/2022	CDK
Consulted Diane Yabut regarding allowable subject matter	03/23/2022	CDK
Performed Interference search	05/08/2022	CDK

Interference Search			
US Class/CPC Symbol	**US Subclass/CPC Group**	**Date**	**Examiner**
text search	USPAT; US-PGPUB	05/08/2022	CDK

/C.D.K/ Examiner, Art Unit 3771	

PE2E SEARCH - Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	British Equivalents	Time Stamp
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L2	101	(scott near2 mallett).in.	(US-PGPUB; USPAT)	OR	OFF	OFF	2015/07/21 04:04 AM
L3	3	(abraham near2 solano).in.	(US-PGPUB; USPAT)	OR	OFF	OFF	2015/07/21 04:06 AM
L4	100	(william near2 cohen).in.	(US-PGPUB; USPAT)	OR	OFF	OFF	2015/07/21 04:07 AM
L5	24	(edge near2 systems).as.	(US-PGPUB; USPAT)	OR	OFF	OFF	2015/07/21 04:09 AM
L6	310	US-1234567-$.DID. OR US-2608032-$.DID. OR US-2701559-$.DID. OR US-2712823-$.DID. OR US-2867214-$.DID. OR US-2881763-$.DID. OR US-2921585-$.DID. OR US-3085573-$.DID. OR US-3214869-$.DID. OR US-3476112-$.DID. OR US-3574239-$.DID. OR US-3715838-$.DID. OR US-3948265-$.DID. OR US-3964212-$.DID. OR US-3977084-$.DID. OR US-4121388-$.DID. OR US-4155721-$.DID. OR US-4182329-$.DID. OR US-4203431-$.DID. OR US-4216233-$.DID. OR US-4299219-$.DID. OR US-4378804-$.DID. OR US-4560373-$.DID. OR US-4646480-$.DID. OR US-4646482-$.DID. OR US-4655743-$.DID. OR US-4676749-$.DID. OR US-4706676-$.DID. OR US-4754756-$.DID. OR US-4757814-$.DID. OR US-4764362-$.DID. OR US-4795421-$.DID. OR US-4875287-$.DID. OR US-4886078-$.DID. OR US-4887994-$.DID. OR US-4900316-$.DID. OR US-4917086-$.DID. OR US-4925450-$.DID. OR US-4957747-$.DID. OR US-5006004-$.DID. OR US-5006339-$.DID. OR	(US-PGPUB; USPAT)	OR	OFF	OFF	2015/07/21 04:14 AM

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L9	484	(console and manifold and fluid and container and hand$7 and (conduit tube) and vacuum)	(US-PGPUB; USPAT; EPO; JPO)	OR	OFF	OFF	2015/07/21 05:04 AM
L10	498	A61B17/54.cpc.	(US-PGPUB; USPAT)	OR	OFF	OFF	2015/07/21 06:13 AM
L11	136	A61B17/545.cpc.	(US-PGPUB; USPAT)	OR	OFF	OFF	2015/07/21 06:29 AM
L12	583	A61B19/0248.cpc.	(US-PGPUB; USPAT)	OR	OFF	OFF	2015/07/21 06:43 AM
L13	511	A61B2019/025.cpc.	(US-PGPUB; USPAT)	OR	OFF	OFF	2015/07/21 06:50 AM
L14	1159	A61B2017/00199.cpc.	(US-PGPUB; USPAT)	OR	OFF	OFF	2015/07/21 06:59 AM
L15	955	A61B2017/00017.cpc.	(US-PGPUB; USPAT)	OR	OFF	OFF	2015/07/21 07:15 AM
L16	2160	A61B2217/005.cpc.	(US-PGPUB; USPAT)	OR	OFF	OFF	2015/07/21 07:21 AM
L17	1269	A61B2217/007.cpc.	(US-PGPUB; USPAT)	OR	OFF	OFF	2015/07/21 07:21 AM
L18	38	("4183470" | "5186625" | "5240842" | "5350299" | "5362494" | "5441174" | "5547376" | "5591184" | "5634791" | "5657760" | "5752829" | "Re31887").PN. OR ("6264666").URPN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2015/07/21 10:03 AM
L19	59	("1772545" | "2109259" | "2453080" | "2547823" | "2618410" | "2711268" | "2962193" | "3217887" | "3647118").PN. OR ("3930598").URPN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2015/07/22 02:38 AM

L20	19	("3815286" | "5037432" | "5207234" | "5971999").PN. OR ("6238275").URPN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2015/07/22 04:07 AM
L21	51	("20010023351" | "2701559" | "2712823" | "2867214" | "2881763" | "2921585" | "3964212" | "4378804" | "4957747" | "5012797" | "5037431" | "5037432" | "5100412" | "5207034" | "5207234" | "5620414" | "5800446" | "5810842" | "5954730" | "5971999" | "6019749" | "6039745" | "6042552" | "6080165" | "6120512" | "6238275" | "6303119").PN. OR ("6527783").URPN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2015/07/22 04:09 AM
L22	32	("20010023351" | "5037432" | "5100412" | "5207034" | "5207234" | "5620414" | "5810842" | "5954730" | "5971999" | "6019749" | "6039745" | "6080165" | "6120512" | "6139554" | "6196982" | "6235039" | "6238275" | "6241739" | "6250996" | "6277003" | "6306119" | "6390899").PN. OR ("6673082").URPN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2015/07/22 04:09 AM
L23	42	("20010023351" | "4572187" | "5037432" | "5100412" | "5154696" | "5207234" | "5354307" | "5810842" | "5954730" | "5971999" | "6019749" | "6039745" | "6080165" | "6162232" | "6196982" | "6235039" | "6241739" | "6250996" | "6299620" | "6319211" | "6391034" | "6423078" | "6432113" | "6629983" | "6652888").PN. OR ("6942649").URPN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2015/07/22 04:16 AM
L24	38	("5037432" | "5100412" | "5810842" | "5971999").PN. OR ("6080165").URPN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2015/07/22 04:17 AM
L25	43	("20010023351" | "2701559" | "2712823" | "2867214" | "2881763" | "2921585" | "3964212" |	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2015/07/22 04:21 AM

		"4378804" | "4957747" | "5012797" | "5037431" | "5037432" | "5100412" | "5154696" | "5207234" | "5800446" | "5810842" | "5954730" | "5971999" | "6019749" | "6039745" | "6042552" | "6080165" | "6196982" | "6235039" | "6241739" | "6250996" | "6319211").PN. OR ("6592595").URPN.					
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L28	38	("4183470" | "5186625" | "5240842" | "5350299" | "5362494" | "5441174" | "5547376" | "5591184" | "5634791" | "5657760" | "5752829" | "Re31887").PN. OR ("6264666").URPN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2015/07/22 04:38 AM
L29	38	("2608032" | "2921585" | "3574239" | "3715838" | "4375740" | "4482322" | "4560373" | "4646480" | "4671867" | "4676749" | "4757814" | "4765099" | "5037431" | "5037432" | "5100412" | "5207234" | "5309683" | "5460604" | "5547376" | "5765759" | "5810587" | "5810842" | "6039745").PN. OR ("6277128").URPN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2015/07/22 04:39 AM
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L31	59	("1772545" | "2109259"	(US-PGPUB; USPAT;	OR	OFF	OFF	2015/07/22

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L32	82	("0882532" | "1882040" | "1898652" | "2228676" | "2266931" | "2338339" | "2655146" | "2701559" | "2712823" | "2867214" | "2881763" | "2921585" | "3236231" | "3736921" | "3818904" | "3841322" | "3841323" | "3964212" | "4003373" | "4241499" | "4378804" | "4560373" | "4572187" | "4646480" | "4836192" | "4957747" | "5012797" | "5037431" | "5037432" | "5100412" | "5207234" | "5377701" | "5699810" | "5800440" | "5810842" | "5954730" | "5971999" | "6039745" | "6042552" | "6080165" | "6120512" | "6139554" | "6149634" | "6196982" | "6241739" | "6283078" | "6299620" | "6319211" | "6500183" | "6511486").PN. OR ("6695853").URPN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2015/07/22 04:46 AM
L33	107	("2608032" | "2921585" | "3085573" | "3574239" | "3715838" | "4560373" | "4646480" | "4676749" | "4757814").PN. OR ("5037432").URPN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2015/07/22 04:53 AM
L34	33	("20030093089" | "2701559" | "2712823" | "2867214" | "2881763" | "2921585" | "3964312" | "4378804" | "5012797" | "5037431" | "5037432" | "5100412" | "5800446" | "5971999" | "6039745" | "6241739" | "6277128" | "6299620" | "6432114" | "6500183" | "6582442" | "6592595" | "6629983" | "6695853" | "6911031" | "7070488").PN. OR ("7651508").URPN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2015/07/22 04:55 AM
L35	38	("4183470" | "5186625" | "5240842" | "5350299" | "5362494" | "5441174" | "5547376" | "5591184"	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2015/07/22 08:45 AM

		| "5634791" | "5657760" | "5752829" | "Re31887").PN. OR ("6264666").URPN.					
L36	6	(manifold same container same (antimicrobial disenfect$4))	(US-PGPUB; USPAT; EPO; JPO)	OR	OFF	OFF	2015/07/22 10:29 AM
L37	140	(manifold same container same (antimicrobial disenfect$4 surfactant sanitiz$5))	(US-PGPUB; USPAT; EPO; JPO)	OR	OFF	OFF	2015/07/22 10:32 AM
L38	378	(manifold with (clean$4 sanitiz$4) with container)	(US-PGPUB; USPAT; EPO; JPO)	OR	OFF	OFF	2015/07/23 02:44 AM
L39	12	(manifold with (clean$4 sanitiz$4) with container) and (abrasion or microabrasion)	(US-PGPUB; USPAT; EPO; JPO)	OR	OFF	OFF	2015/07/23 02:45 AM
L40	17	("2894732" | "3378234" | "3468637").PN. OR ("3865352").URPN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2015/07/23 03:24 AM
L41	33	("20030093089" | "2701559" | "2712823" | "2867214" | "2881763" | "2921585" | "3964312" | "4378804" | "5012797" | "5037431" | "5037432" | "5100412" | "5800446" | "5971999" | "6039745" | "6241739" | "6277128" | "6299620" | "6432114" | "6500183" | "6582442" | "6592595" | "6629983" | "6695853" | "6911031" | "7070488").PN. OR ("7651508").URPN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2015/07/23 04:06 AM
L42	15	("20010023351" | "20030093089" | "20060116674" | "20070156124" | "6250996" | "7232444" | "7651508" | "D286920" | "D286921" | "D321340" | "D326920" | "D489816" | "D548326").PN. OR ("D627876").URPN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2015/07/23 04:12 AM
L43	15	("5037432" | "5971999").PN. OR ("6250996").URPN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2015/07/23 04:13 AM
L44	8	("20010023351" | "20030093089" |	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2015/07/23 04:14 AM

		"20030212415" | "6250996" | "D450842").PN. OR ("D503979").URPN.					
L45	16	("20010023351" | "20030093089" | "20070156124" | "4653474" | "6250996" | "7232444" | "D192841" | "D224070" | "D249550" | "D326920" | "D475463" | "D489816" | "D627876").PN. OR ("D682414").URPN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2015/07/23 04:15 AM
L46	47	("7083580"|"7087063"|"7094252"|"7115275"|"7135011"|"7153311"|"7197359"|"7198623"|"7241208"|"7276051"|"7314326"|"7316657"|"7318828"|"7320691"|"7352801"|"7354423"|"7364565"|"7384405"|"7427273"|"7458944"|"7476205"|"7477938"|"7482314"|"7489989"|"7507067"|"7579900"|"7597901"|"7658742"|"7678120"|"7744582"|"7789886"|"7837695"|"7901373"|"7951156"|"8025669"|"8048089"|"8066716"|"8088085"|"8128638"|"8221437"|"8236008"|"8277287"|"8337513"|"8343116"|"8814836"|"RE37796"|"RE42960").PN.	(US-PGPUB; USPAT)	OR	OFF	OFF	2016/02/23 07:32 AM
L47	3	("20080154161"|"20080208146"|"20160038183").PN.	(US-PGPUB; USPAT)	OR	OFF	OFF	2016/08/17 04:17 AM
L48	5577	A61B17/54,545.cpc. or A61B19/0248.cpc. or A61B2019/025.cpc. or A61B2017/00199.cpc. or A61B2017/00017.cpc. or A61B2217/005,007.cpc.	(US-PGPUB; USPAT)	OR	OFF	OFF	2016/08/17 04:39 AM
L49	442	L48 and (manifold)	(US-PGPUB; USPAT)	OR	OFF	OFF	2016/08/17 04:39 AM
L50	250	L48 and (manifold) and liquid	(US-PGPUB; USPAT)	OR	OFF	OFF	2016/08/17 04:42 AM
L51	11	("5037431" | "5037432" | "5100412" | "5810842").PN. OR ("6562050").URPN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2016/08/17 04:45 AM

L52	40	("4183470" | "5186625" | "5240842" | "5350299" | "5362494" | "5441174" | "5547376" | "5591184" | "5634791" | "5657760" | "5752829" | "Re31887").PN. OR ("6264666").URPN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2016/08/17 05:14 AM
L53	83	("0882532" | "1882040" | "1898652" | "2228676" | "2266931" | "2338339" | "2655146" | "2701559" | "2712823" | "2867214" | "2881763" | "2921585" | "3236231" | "3736921" | "3818904" | "3841322" | "3841323" | "3964212" | "4003373" | "4241499" | "4378804" | "4560373" | "4572187" | "4646480" | "4836192" | "4957747" | "5012797" | "5037431" | "5037432" | "5100412" | "5207234" | "5377701" | "5699810" | "5800440" | "5810842" | "5954730" | "5971999" | "6039745" | "6042552" | "6080165" | "6120512" | "6139554" | "6149634" | "6196982" | "6241739" | "6283078" | "6299620" | "6319211" | "6500183" | "6511486").PN. OR ("6695853").URPN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2016/08/17 05:15 AM
L54	13	("20010023351" | "20020133176" | "20020169461" | "20020183702" | "20030097139" | "20050277950" | "20060086634" | "20060129140" | "20060161178" | "20070156124" | "20070265586" | "20100030132" | "6846218").PN. OR ("8986323").URPN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2016/08/17 05:19 AM
L55	7	("20030208159"|"6322568"|"8236008"|"20020151908"|"20090125023"|"20110009882"|"20120136374").PN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2016/08/17 05:55 AM
L56	879	microdermabrasion	(US-PGPUB; USPAT)	OR	OFF	OFF	2016/08/17 06:14 AM

L57	0	14/698,67.	(US-PGPUB; USPAT; EPO; JPO)	OR	OFF	OFF	2016/08/17 08:22 AM
L58	1	14/698,673	(US-PGPUB; USPAT; EPO; JPO)	OR	OFF	OFF	2016/08/17 08:22 AM
L59	406	A61B17/50.cpc.	(US-PGPUB; USPAT)	OR	OFF	OFF	2016/08/17 08:25 AM
L60	1002	A61M35/003.cpc.	(US-PGPUB; USPAT)	OR	OFF	OFF	2016/08/17 09:03 AM
L61	453	A61B2017/00761.cpc.	(US-PGPUB; USPAT)	OR	OFF	OFF	2016/08/17 09:04 AM
L62	1533	A61N5/0616.cpc.	(US-PGPUB; USPAT)	OR	OFF	OFF	2016/08/17 09:05 AM
L63	952	A61B2017/320004.cpc.	(US-PGPUB; USPAT)	OR	OFF	OFF	2016/08/17 09:05 AM
L64	641	A61B50/10.cpc.	(US-PGPUB; USPAT; EPO; JPO)	OR	OFF	OFF	2016/08/18 07:47 AM
L65	16	A61B50/10.cpc. and (microdermabra$5 or abra$5)	(US-PGPUB; USPAT; EPO; JPO)	OR	OFF	OFF	2016/08/18 08:00 AM
L66	622	A61B50/13.cpc.	(US-PGPUB; USPAT; EPO; JPO)	OR	OFF	OFF	2016/08/18 08:02 AM
L67	252	L66 not L64	(US-PGPUB; USPAT; EPO; JPO)	OR	OFF	OFF	2016/08/18 08:02 AM
L68	17	11/392,348	(US-PGPUB; USPAT)	OR	OFF	OFF	2016/08/18 08:12 AM
L77	400	A61B17/3205.cpc.	(US-PGPUB; USPAT)	OR	OFF	OFF	2016/08/18 09:19 AM
L78	4	(skin AND console AND input$4 AND hand$7 AND fluid AND manifold AND source).clm.	(US-PGPUB; USPAT; USOCR; FIT (CN, FR, WO); FPRS; EPO)	OR	ON	ON	2021/02/27 08:40 PM
L79	89	(console WITH input$4) AND skin AND hand$7 AND (manifold WITH fluid)	(US-PGPUB; USPAT; USOCR; FIT (CN, FR, WO); FPRS; EPO)	OR	ON	ON	2021/02/27 08:45 PM
L80	1	09/271,012	(US-PGPUB; USPAT; USOCR; FIT (CN, FR, WO); FPRS; EPO)	OR	ON	ON	2021/02/27 08:49 PM
L81	59	("Re31887" | "4183470" | "5186625" | "5240842" | "5350299" | "5362494" | "5441174" | "5547376" | "5591184" | "5634791" | "5657760" | "5752829").pn. OR ("6264666").urpn. AND (PGPB | USPT | USOC).dbnm.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/03/01 01:18 PM
L82	58	("2608032" | "2921585" | "3574239" | "3715838" | "4375740" | "4482322" | "4560373" | "4646480"	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/03/01 01:49 PM

		| "4671867" | "4676749" | "4757814" | "4765099" | "5037431" | "5037432" | "5100412" | "5207234" | "5309683" | "5460604" | "5547376" | "5765759" | "5810587" | "5810842" | "6039745").pn. OR ("6277128").urpn. AND (PGPB | USPT | USOC).dbnm.					
L83	56	(console SAME (handle handpiece)) AND (dermabrasion skin) AND (manifold SAME fluid SAME console)	(US-PGPUB; USPAT; USOCR; FIT (CN, FR, WO); FPRS; EPO)	OR	ON	ON	2021/03/01 01:53 PM
L84	116	("6024733"|"6139553"|"20070088371"|"5800446"|"5810842"|"6039745"|"6042552"|"6183483"|"6238275"|"6241739"|"6423078"|"6471712"|"6527783"|"6673082"|"6869611"|"3574239"|"5100412"|"6695853"|"20020128663"|"20090192442"|"20100049177"|"3964212"|"4378804"|"6090085"|"6942649"|"7789886"|"4182329"|"6299620"|"6277128"|"20030060834"|"20040127914"|"20070208353"|"20090177171"|"20090222023"|"5122153"|"5882201"|"7318828"|"20060200172"|"6629983"|"2712823"|"20020107527"|"20110054490"|"4121388"|"4706676"|"4957747"|"5037432"|"5674235"|"6592595"|"6641591"|"6926681"|"7678120"|"2921585"|"20030212415"|"6019749"|"2608032"|"20050283176"|"20070005078"|"20100045427"|"4203431"|"4676749"|"5873881"|"6283978"|"6685853"|"7087063"|"7153311"|"7482314"|"7837695"|"20060200173"|"3476112"|"2867214"|"2701559"|"20060253125"|"3715838"|"4155721"|"4216233"|"4560373"|"4646482"|"4757814"|"5012797"|"50	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/03/09 05:55 PM

		35089"|"5037431"|"5207234"|"5222956"|"6080166"|"6306119"|"6387103"|"7354423"|"7658742"|"4900316"|"6139554"|"20030097139"|"4917086"|"5759185"|"3085573"|"2881763"|"3214869"|"4646480"|"4754756"|"5612797"|"5971999"|"6080165"|"6136008"|"6149634"|"6162232"|"6500183"|"6582442"|"6911031").PN.					
L85	58	("2608032" | "2921585" | "3574239" | "3715838" | "4375740" | "4482322" | "4560373" | "4646480" | "4671867" | "4676749" | "4757814" | "4765099" | "5037431" | "5037432" | "5100412" | "5207234" | "5309683" | "5460604" | "5547376" | "5765759" | "5810587" | "5810842" | "6039745").pn. OR ("6277128").urpn. AND (PGPB | USPT | USOC).dbnm.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/03/09 06:01 PM
L86	4	(console AND (skin dermis derma$7) AND input AND (handle handpiece) AND (fluid water) AND manifold AND source).clm.	(US-PGPUB; USPAT; USOCR; FIT (CN, FR, WO); FPRS; EPO)	OR	ON	ON	2021/03/09 06:10 PM
L87	368	("2608032" | "2631583" | "2701559" | "2712823" | "2867214" | "2881763" | "2921585" | "3085573" | "3214869" | "3476112" | "3574239" | "3715838" | "3865352" | "3948265" | "3964212" | "3977084" | "4121388" | "4155721" | "4170821" | "4182329" | "4203431" | "4216233" | "4299219" | "4378804" | "4560373" | "4646480" | "4646482" | "4655743" | "4676749" | "4706676" | "4754756" | "4757814" | "4764362" | "4795421" | "4875287" | "4886078" | "4887994" | "4900316" | "4917086" | "4925450" | "4957747" | "5006004" | "5006339" | "5012797"	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/03/09 06:10 PM

		| "5035089" | "5037431" | "5037432" | "5100412" | "5100424" | "5119839" | "5122153" | "5207234" | "5222956" | "5242433" | "5254109" | "5368581" | "5391151" | "5417674" | "5419772" | "5460620" | "5470323" | "5484427" | "5562642" | "5611687" | "5674235" | "5676643" | "5676648" | "5683971" | "5697920" | "5707383" | "5713785" | "5735833" | "5759185" | "5779519" | "5800446" | "5807353" | "5810842" | "5813416" | "5817050" | "5846215" | "5848998" | "5861142" | "5873881" | "5879323" | "5882201" | "5885260" | "5908401" | "5919152" | "5954730" | "5971999" | "5980555" | "6019749" | "6024733" | "6027402" | "6039745" | "6042552" | "6080165" | "6080166" | "6090085" | "6120512" | "6129701" | "6136008" | "6139553" | "6139554" | "6142155" | "6149634" | "6159226" | "6162218" | "6162232" | "6183451" | "6183483" | "6193589" | "6231593" | "6235039" | "6238275" | "6241739" | "6264666" | "6277128" | "6283978" | "6299620" | "6306119" | "6306147" | "6322568" | "6368333" | "6387103" | "6409736" | "6410599" | "RE37796" | "6414032" | "6420431" | "6423078" | "6423750" | "6432113" | "6432114" | "6471712" | "6477410" | "6482212" | "6488646" | "6494856" | "6500183" | "6503256" | "6511486" | "6514262" | "6527783" | "6535761" | "6540757" | "6562013" | "6562050" | "6564093" | "6565535" | "6582442" | "6589218" | "6592595" | "6629983" | "6641591" | "6645184" | "6652888" | "6673081" | "6673082"					

		| "6685853" | "6687537" | "6695853" | "6735470" | "6743211" | "6743215" | "6764493" | "6869611" | "6905487" | "6911031" | "6924649" | "6926681" | "6942649" | "7001355" | "7004933" | "7044938" | "7052503" | "7069073" | "7070488" | "7083580" | "7087063" | "7094252" | "7115275" | "7135011" | "7153311" | "7197359" | "7198623" | "7232444" | "7241208" | "7276051" | "7314326" | "7316657" | "7318828" | "7320691" | "7320801" | "7354423" | "7364565" | "7384405" | "7427273" | "7458944" | "7476205" | "7477938" | "7482314" | "7489989" | "7507228" | "7582067" | "7597900" | "7597901" | "7658742" | "7678120" | "7744582" | "7789886" | "7837695" | "7901373" | "7951156" | "8025669" | "RE42960" | "8048089" | "8066716" | "8088085" | "8128638" | "8221437" | "8236008" | "8277287" | "8337513" | "8343116" | "8814836" | "9056193" | "20010023351" | "20010037118" | "20010049511" | "20020016601" | "20020041891" | "20020058952" | "20020107527" | "20020133110" | "20020133176" | "20020151826" | "20020151908" | "20020188261" | "20030012415" | "20030018252" | "20030060834" | "20030093040" | "20030093089" | "20030097139" | "20030167032" | "20030187462" | "20030208159" | "20030212127" | "20030212415" |					

		"20040010222" | "20040010269" | "20040087972" | "20040092895" | "20040092959" | "20040097967" | "20040122447" | "20040143274" | "20040162565" | "20040166172" | "20040219179" | "20040236291" | "20040243149" | "20040254587" | "20040267285" | "20050037034" | "20050038448" | "20050059940" | "20050084509" | "20050148958" | "20050203111" | "20050209611" | "20050283176" | "20060002960" | "20060116674" | "20060161178" | "20060189964" | "20060191562" | "20060200099" | "20060200172" | "20060200173" | "20060212029" | "20060253125" | "20060264893" | "20070005078" | "20070043382" | "20070065515" | "20070088371" | "20070123808" | "20070154502" | "20070156124" | "20070178121" | "20070198031" | "20070208353" | "20070239173" | "20080027328" | "20080091179" | "20080103563" | "20080119781" | "20080132914" | "20080139974" | "20080154161" | "20080193493" | "20080200861" | "20080208146" | "20080214987" | "20080215068" | "20080221548" |				

		"20080243039" | "20080287864" | "20080300529" | "20080300552" | "20090048557" | "20090053390" | "20090062815" | "20090099091" | "20090099093" | "20090124985" | "20090138026" | "20090177171" | "20090192442" | "20090222023" | "20100045427" | "20100049177" | "20100049210" | "20100217357" | "20110054490" | "20110066162" | "20110082415" | "20120022435" | "20120041338" | "20120136374" | "20130018317" | "20130066336" | "20130096577" | "20130102978" | "20130144280" | "20130158547" | "20140343481" | "20140343574" | "20150032047" | "20150230824" | "20150230825" | "20150231379" | "20150265822" | "20150290442" | "20160038183").pn. OR ("9550052").urpn. AND (PGPB | USPT | USOC).dbnm.					
L88	28	("10485983" "8518001" "9084587" "10220122" "7384405" "6283978" "6471712" "9005173" "20170245876" "10898227" "20180289936" "20130158547" "8433400" "7318828" "20040077977" "20090254155").pn.	(US-PGPUB; USPAT; USOCR; FIT (CN, FR, WO); FPRS; EPO)	OR	ON	ON	2021/03/09 09:53 PM
L89	16	("10485983" "8518001" "9084587" "10220122" "7384405" "6283978" "6471712" "9005173"	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/03/09 09:53 PM

		"20170245876" "10898227" "20180289936" "20130158547" "8433400" "7318828" "20040077977" "20090254155").pn.					
L90	682711	A61B17/$.cpc. OR A61B2017/$.cpc.	(US-PGPUB; USPAT; USOCR; FIT (CN, FR, WO); FPRS; EPO)	OR	ON	ON	2021/03/09 11:37 PM
L91	286	L90 AND (manifold WITH (releasab$4 detach$4 remov$4) WITH (container bottle source canister))	(US-PGPUB; USPAT; USOCR; FIT (CN, FR, WO); FPRS; EPO)	OR	ON	ON	2021/03/09 11:38 PM
L92	30	12/340,595	(US-PGPUB; USPAT; USOCR; FIT (CN, FR, WO); FPRS; EPO)	OR	ON	ON	2021/03/09 11:43 PM
L93	59	("Re31887" | "4183470" | "5186625" | "5240842" | "5350299" | "5362494" | "5441174" | "5547376" | "5591184" | "5634791" | "5657760" | "5752829").pn. OR ("6264666").urpn. AND (PGPB | USPT | USOC).dbnm.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/03/13 07:39 PM
L94	33	("2661537" | "2696049" | "3344524" | "3971375" | "4180812" | "4276023" | "4492575" | "4494932" | "4635897" | "4708534" | "4767404" | "4826431" | "4893440" | "4941298" | "5109637").pn. OR ("5752829").urpn. AND (PGPB | USPT | USOC).dbnm.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/03/13 07:54 PM
L95	63	("1772545" | "2109259" | "2453080" | "2547823" | "2618410" | "2711268" | "2962193" | "3217887" | "3647118").pn. OR ("3930598").urpn. AND (PGPB | USPT | USOC).dbnm.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/03/13 08:19 PM
L96	4	("20010049511" "20030093089" "20030018252" "3865352").pn.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/04/19 04:59 PM
L97	890	("10076646"|"10130390"|"10188193"|"10206743"|"10220122"|"10314378"|"10334933"|"10369	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, CA, CH, CN, DD, DE, EA, EP, ES, FR,	OR	ON	ON	2021/09/02 02:46 PM

		073"|"10456321"|"1045 6567"|"10485983"|"105 24835"|"10667985"|"10 737080"|"10758261"|"1 0918190"|"10946191"|" 10993743"|"11020577"| "20040138680"|"20070 139630"|"20110295273 "|"20130144207"|"2014 0079686"|"2014023400 4"|"20140343481"|"201 40378887"|"201600181 00"|"20160038183"|"20 160235257"|"20160250 415"|"20170043150"|"2 0180140329"|"2018018 5675"|"20190070069"|" 20190151637"|"202000 09007"|"20200179220"| "20200289161"|"20200 316270"|"20200338586 "|"20200390468"|"2021 0085367"|"2021014548 0"|"20210145481"|"202 10154453"|"202101544 54"|"20210154455"|"20 210177463"|"3560100"| "4342522"|"4500222"|"6 508813"|"6537242"|"66 26445"|"6629927"|"693 8805"|"7051907"|"7166 086"|"7316671"|"74225 67"|"7857806"|"823129 2"|"8475507"|"8573874" |"8579916"|"8721662"|" 8858570"|"8939669"|"8 945104"|"9050133"|"90 72533"|"9517085"|"970 0684"|"9731053"|"9775 645"|"9833261"|"98614 42"|"9918727"|"994955 2"|"9950147"|"9955769" |"D486915"|"D496101"|" D522360"|"D553005"|" D584151"|"D664254"|" D678783"|"D709617"|" D722172"|"D743558"|" D787054"|"D811381"|" D822845"|"D825763"|" D836781"|"D851759"|" D852962"|"D861913"|" D867587"|"D868981"|" D893024"|"10035007"|" 10172644"|"10179229"| "10238812"|"10251675" |"10357641"|"10357642 "|"10556096"|"1055609 7"|"1651585"|"2001002	GB, JP, KR, OA, RU, SU, WO); EPO)				

		3351"|"20010037118"|" 20010049511"|"200200 16601"|"20020041891"| "20020058952"|"20020 107527"|"20020128663 "|"20020133110"|"2002 0133176"|"2002015182 6"|"20020151908"|"200 20162863"|"200201882 61"|"20030012415"|"20 030018252"|"20030060 834"|"20030093040"|"2 0030093089"|"2003009 7139"|"20030167032"|" 20030187462"|"200302 08159"|"20030212127"| "20030212415"|"20040 010222"|"20040010269 "|"20040015139"|"2004 0087972"|"2004009289 5"|"20040092959"|"200 40097967"|"200401224 47"|"20040127914"|"20 040143274"|"20040162 565"|"20040166172"|"2 0040219179"|"2004023 6291"|"20040243149"|" 20040254587"|"200402 67285"|"20050037034"| "20050038448"|"20050 059940"|"20050084509 "|"20050148958"|"2005 0203111"|"2005020961 1"|"20050283176"|"200 60002960"|"200601166 74"|"20060161178"|"20 060189964"|"20060191 562"|"20060200099"|"2 0060200172"|"2006020 0173"|"20060212029"|" 20060222445"|"200602 53125"|"20060264893"| "20060269580"|"20070 005078"|"20070043382 "|"20070065515"|"2007 0088371"|"2007012380 8"|"20070154502"|"200 70156124"|"200701781 21"|"20070198031"|"20 070208353"|"20070239 173"|"20080027328"|"2 0080091179"|"2008010 3563"|"20080119781"|" 20080132914"|"200801 39974"|"20080154161"| "20080193493"|"20080 200861"|"20080208146 "|"20080214987"|"2008					

		0215068"|"2008022154 8"|"20080243039"|"200 80287864"|"200803005 29"|"20080300552"|"20 090048557"|"20090053 390"|"20090062815"|"2 0090099091"|"2009009 9093"|"20090124985"|" 20090138026"|"200901 77171"|"20090192442"| "20090222023"|"20100 023003"|"20100045427 "|"20100049177"|"2010 0049210"|"2010021735 7"|"20100305495"|"201 10054490"|"201100661 62"|"20110082415"|"20 120022435"|"20120041 338"|"20120136374"|"2 0130004230"|"2013001 8317"|"20130066336"|" 20130096577"|"201301 02978"|"20130144280"| "20130158547"|"20140 343574"|"20150032047 "|"20150230824"|"2015 0230825"|"2015023137 9"|"20150265822"|"201 50272623"|"201502904 42"|"20170036002"|"20 170065801"|"20170209 894"|"20180318568"|"2 0190133642"|"2019014 3089"|"20190223914"|" 20200016342"|"202001 71288"|"20200171289"| "2608032"|"2631583"|"2 701559"|"2712823"|"28 67214"|"2881763"|"292 1585"|"3037509"|"3085 573"|"3214869"|"34680 79"|"3476112"|"348167 7"|"3505993"|"3574239" |"3715838"|"3865352"|" 3866264"|"3948265"|"3 964212"|"3968789"|"39 77084"|"4121388"|"415 5721"|"4170821"|"4182 329"|"4203431"|"42162 33"|"4225254"|"428915 8"|"4299219"|"4378804" |"4560373"|"4646480"|" 4646482"|"4655743"|"4 676749"|"4706676"|"47 18467"|"4754756"|"475 7814"|"4764362"|"4795 421"|"4811734"|"48361 92"|"4875287"|"488607					

		8"|"4887994"|"4900316" |"4917086"|"4925450"|" 4940350"|"4957747"|"5 006004"|"5006339"|"50 12797"|"5035089"|"503 7431"|"5037432"|"5054 339"|"5100412"|"51004 24"|"5119839"|"512215 3"|"5171215"|"5192269" |"5207234"|"5222956"|" 5242433"|"5254109"|"5 368581"|"5387215"|"53 91151"|"5417674"|"541 9772"|"5441490"|"5460 620"|"5470323"|"54844 27"|"5490736"|"551204 4"|"5562642"|"5562643" |"5611687"|"5612797"|" 5674235"|"5676643"|"5 676648"|"5683971"|"56 97920"|"5707383"|"571 3785"|"5735833"|"5759 185"|"5762640"|"57795 19"|"5800446"|"580735 3"|"5810842"|"5813416" |"5817050"|"5834510"|" 5846215"|"5848998"|"5 857995"|"5861142"|"58 73881"|"5879323"|"588 2201"|"5885260"|"5908 401"|"5919152"|"59547 30"|"5971999"|"598055 5"|"6019749"|"6023639" |"6024733"|"6027402"|" 6039745"|"6042552"|"6 080165"|"6080166"|"60 90085"|"6120512"|"612 9701"|"6136008"|"6139 553"|"6139554"|"61421 55"|"6149634"|"615922 6"|"6162218"|"6162232" |"6165059"|"6183451"|" 6183483"|"6193589"|"6 196982"|"6231593"|"62 35039"|"6238275"|"624 1739"|"6264666"|"6277 128"|"6283978"|"62996 20"|"6306119"|"630614 7"|"6322548"|"6322568" |"6332886"|"6368333"|" 6387103"|"6401289"|"6 409736"|"6410599"|"64 14032"|"6420431"|"642 3078"|"6423750"|"6432 113"|"6432114"|"64717 12"|"6477410"|"648221 2"|"6488646"|"6494856" |"6500183"|"6503256"|"					

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		7431"|"5037432"|"5054 339"|"5100412"|"51004 24"|"5119839"|"512215 3"|"5171215"|"5192269" |"5207234"|"5222956"|" 5242433"|"5254109"|"5 368581"|"5387215"|"53 91151"|"5417674"|"541 9772"|"5441490"|"5460 620"|"5470323"|"54844 27"|"5490736"|"551204 4"|"5562642"|"5562643" |"5611687"|"5612797"|" 5674235"|"5676643"|"5 676648"|"5683971"|"56 97920"|"5707383"|"571 3785"|"5735833"|"5759 185"|"5762640"|"57795 19"|"5800446"|"580735 3"|"5810842"|"5813416" |"5817050"|"5834510"|" 5846215"|"5848998"|"5 857995"|"5861142"|"58 73881"|"5879323"|"588 2201"|"5885260"|"5908 401"|"5919152"|"59547 30"|"5971999"|"598055 5"|"6019749"|"6023639" |"6024733"|"6027402"|" 6039745"|"6042552"|"6 080165"|"6080166"|"60 90085"|"6120512"|"612 9701"|"6136008"|"6139 553"|"6139554"|"61421 55"|"6149634"|"615922 6"|"6162218"|"6162232" |"6165059"|"6183451"|" 6183483"|"6193589"|"6 196982"|"6231593"|"62 35039"|"6238275"|"624 1739"|"6264666"|"6277 128"|"6283978"|"62996 20"|"6306119"|"630614 7"|"6322548"|"6322568" |"6332886"|"6368333"|" 6387103"|"6401289"|"6 409736"|"6410599"|"64 14032"|"6420431"|"642 3078"|"6423750"|"6432 113"|"6432114"|"64717 12"|"6477410"|"648221 2"|"6488646"|"6494856" |"6500183"|"6503256"|" 6511486"|"6514262"|"6 527783"|"6535761"|"65 40757"|"6562013"|"656 2050"|"6564093"|"6565 535"|"6582442"|"65892					

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L99	11	((US-3574239-A OR US-6277128-B1 OR US-6629983-B1 OR US-7232444-B2 OR US-7070488-B2 OR US-8048089-B2).did. AND USPT.dbnm.) OR ((US-20010049511-A1 OR US-20040243149-A1 OR US-20060161178-A1 OR US-20040267285-A1 OR US-20070156124-A1).did. AND	(USPAT; US-PGPUB; FPRS; USOCR; IBM_TDB; EPO; JPO; DERWENT; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI,	OR	ON	ON	2021/09/07 01:25 AM

		PGPB.dbnm.)	SK, TH, TN, TR, TW, UA, VN))				
L100	11	((US-3574239-A OR US-6277128-B1 OR US-6629983-B1 OR US-7232444-B2 OR US-7070488-B2 OR US-8048089-B2).did. AND USPT.dbnm.) OR ((US-20010049511-A1 OR US-20040243149-A1 OR US-20060161178-A1 OR US-20040267285-A1 OR US-20070156124-A1).did. AND PGPB.dbnm.)	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, CA, CH, CN, DD, DE, EA, EP, ES, FR, GB, JP, KR, OA, RU, SU, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/09/07 01:25 AM
L101	41	("8986323" "7651508" "7128729" "7070488" "6942649" "6926681" "6695853" "6629983" "6562050" "6527783" "6503256" "6277128" "6250996" "6238275" "6162232" "6080165" "5752829" "5037432" "5037431" "3930598" "3865352" "3574239" "20150272623" "20110021905" "20100049210" "20090163860" "20090138026" "20070156124" "20060253125" "20060161178" "20060116674" "20050209611" "20040267285" "20040243149" "2004097967" "20030097139" "20030093089" "20030018252" "20020198496" "20020151908" "20010049511" "10238812").pn.	(US-PGPUB; USPAT)	OR	ON	ON	2021/09/07 01:33 AM
L102	11	L101 AND computer	(US-PGPUB; USPAT)	OR	ON	ON	2021/09/07 01:34 AM
L103	7	L101 AND (touch ADJ screen)	(US-PGPUB; USPAT)	OR	ON	ON	2021/09/08 06:36 AM
L104	3	("20080200863"|"6635035").PN.	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU,	OR	ON	ON	2021/12/22 06:21 PM

			CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); EPO)				
L105	10	14/698,673	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); EPO)	OR	ON	ON	2022/03/22 01:10 PM
L106	8	("11202657"|"11213321"|"11224728"|"20060278661"|"20130261534"|"20210145479"|"20210353922").PN.	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); EPO)	OR	ON	ON	2022/03/22 01:49 PM
L107	111	(roger near2 ignon).in.	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); EPO)	OR	ON	ON	2022/03/22 01:50 PM
L108	22	L107 AND (manifold).clm.	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU,	OR	ON	ON	2022/03/22 01:50 PM

			CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); EPO)				
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L111	31	(skin AND manifold AND hand$7 AND (vacuum$4 suction$4 aspirat$4)).clm.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/03/22 03:43 PM

PE2E SEARCH - Search History (Interference)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	British Equivalents	Time Stamp
N69	0	(console and manifold and contain$4 and skin and liquid and (handpiece handle) and tip and (vacuum suction) and (conduit tube) and treat$4).clm.	(US-PGPUB; USPAT)	OR	OFF	OFF	2016/08/18 08:08 AM
N70	0	(console and manifold and skin and liquid and (handpiece handle) and tip and (vacuum suction) and (conduit tube) and treat$4).clm.	(US-PGPUB; USPAT)	OR	OFF	OFF	2016/08/18 08:09 AM
N71	0	(console and manifold and skin and liquid and (handpiece handle) and tip and (vacuum suction) and (conduit tube)).clm.	(US-PGPUB; USPAT)	OR	OFF	OFF	2016/08/18 08:09 AM
N72	2	(console and manifold and skin and (handpiece handle) and	(US-PGPUB; USPAT)	OR	OFF	OFF	2016/08/18 08:09 AM

		tip and (vacuum suction) and (conduit tube)).clm.					
N73	3	(manifold and skin and (handpiece handle) and tip and (vacuum suction) and (conduit tube)).clm.	(US-PGPUB; USPAT)	OR	OFF	OFF	2016/08/18 08:09 AM
N74	17	11/392,348	(US-PGPUB; USPAT)	OR	OFF	OFF	2016/08/18 08:12 AM
N75	38	(manifold and (handpiece handle) and tip and (vacuum suction) and (conduit tub$4)).clm.	(US-PGPUB; USPAT)	OR	OFF	OFF	2016/08/18 08:13 AM
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N77	1	(skin AND treat$4 AND manifold AND first AND second AND container AND console AND (handle handpiece) AND supply$4 AND (conduit lumen tube tubing) AND (vacuum$4 suction$4 aspirat$4) AND source AND waste AND controll$4 AND force).clm.	(US-PGPUB; USPAT)	OR	ON	ON	2022/05/08 10:47 PM
N78	1	(skin AND treat$4 AND manifold AND (first second) AND container AND console AND (handle handpiece) AND supply$4 AND (conduit lumen tube tubing) AND (vacuum$4 suction$4 aspirat$4) AND source AND waste AND controll$4 AND force).clm.	(US-PGPUB; USPAT)	OR	ON	ON	2022/05/08 10:48 PM
N79	1	(skin AND treat$4 AND manifold AND container AND console AND	(US-PGPUB; USPAT)	OR	ON	ON	2022/05/08 10:48 PM

		(handle handpiece) AND supply$4 AND (conduit lumen tube tubing) AND (vacuum$4 suction$4 aspirat$4) AND source AND waste AND controll$4 AND force).clm.					
N80	1	(skin AND treat$4 AND manifold AND (bottle container) AND console AND (handle handpiece) AND supply$4 AND (conduit lumen tube tubing) AND (vacuum$4 suction$4 aspirat$4) AND source AND waste AND controll$4 AND force).clm.	(US-PGPUB; USPAT)	OR	ON	ON	2022/05/08 10:48 PM
N81	1	(skin AND treat$4 AND manifold AND (bottle container) AND console AND (handle handpiece) AND supply$4 AND (conduit lumen tube tubing) AND (vacuum$4 suction$4 aspirat$4) AND source AND controll$4 AND force).clm.	(US-PGPUB; USPAT)	OR	ON	ON	2022/05/08 10:49 PM
N82	1	(skin AND treat$4 AND manifold AND (bottle container) AND console AND (handle handpiece) AND (conduit lumen tube tubing) AND (vacuum$4 suction$4 aspirat$4) AND source AND controll$4 AND force).clm.	(US-PGPUB; USPAT)	OR	ON	ON	2022/05/08 10:49 PM
N83	3	(skin AND treat$4 AND manifold AND (bottle container) AND console AND (handle handpiece) AND (conduit lumen tube tubing) AND (vacuum$4 suction$4 aspirat$4) AND source AND controll$4).clm.	(US-PGPUB; USPAT)	OR	ON	ON	2022/05/08 10:49 PM
N84	3	(skin AND manifold AND (bottle container) AND console AND (handle handpiece)	(US-PGPUB; USPAT)	OR	ON	ON	2022/05/08 10:50 PM

		AND (conduit lumen tube tubing) AND (vacuum$4 suction$4 aspirat$4) AND source AND controll$4).clm.					
N85	3	(skin AND manifold AND (bottle container) AND console AND (handle handpiece) AND (conduit lumen tube tubing) AND (vacuum$4 suction$4 aspirat$4) AND source).clm.	(US-PGPUB; USPAT)	OR	ON	ON	2022/05/08 10:50 PM
N86	3	(skin AND manifold AND (bottle container) AND console AND (handle handpiece) AND (conduit lumen tube tubing) AND (vacuum$4 suction$4 aspirat$4)).clm.	(US-PGPUB; USPAT)	OR	ON	ON	2022/05/08 10:50 PM
N87	6	(skin AND manifold AND (bottle container) AND (handle handpiece) AND (conduit lumen tube tubing) AND (vacuum$4 suction$4 aspirat$4)).clm.	(US-PGPUB; USPAT)	OR	ON	ON	2022/05/08 10:50 PM
N88	8	(console AND manifold AND (bottle container) AND (handle handpiece) AND (conduit lumen tube tubing) AND (vacuum$4 suction$4 aspirat$4)).clm.	(US-PGPUB; USPAT)	OR	ON	ON	2022/05/08 10:51 PM

Bibliographic Data

Application No: 16/517,268

Foreign Priority claimed: ○ Yes ◉ No

35 USC 119 (a-d) conditions met: ☐ Yes ☐ No ☐ Met After Allowance

Verified and Acknowledged: /CHRISTIAN D KNAUSS/ Examiner's Signature | Initials

Title: DEVICES AND METHODS FOR TREATING SKIN

FILING or 371(c) DATE	CLASS	GROUP ART UNIT	ATTORNEY DOCKET NO.
07/19/2019	606	3771	EDGE.005C7
RULE			

APPLICANTS

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Abraham Solano, Corona, CA, UNITED STATES

William Cohen, Los Alamitos, CA, UNITED STATES

CONTINUING DATA OK /CK/

This application is a CON of 15660750 07/26/2017 PAT 10357641

15660750 is a CON of 14700789 04/30/2015 PAT 9814868

14700789 is a CON of 13267554 10/06/2011 PAT 9474886

13267554 is a CON of 11392348 03/29/2006 PAT 8048089

11392348 has PRO of 60764668 02/02/2006

11392348 has PRO of 60755310 12/30/2005

FOREIGN APPLICATIONS none /CK/

IF REQUIRED, FOREIGN LICENSE GRANTED**

08/01/2019

**** SMALL ENTITY ****

STATE OR COUNTRY

UNITED STATES

ADDRESS

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2040 MAIN STREET

FOURTEENTH FLOOR

IRVINE, CA 92614
UNITED STATES

FILING FEE RECEIVED

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PTO/SB/06 (09-11)
Approved for use through 1/31/2014. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
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PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875	Application or Docket Number 16/517,268	Filing Date 07/19/2019	☐ To be Mailed

ENTITY: ☐ LARGE ☑ SMALL ☐ MICRO

APPLICATION AS FILED - PART I

FOR	(Column 1) NUMBER FILED	(Column 2) NUMBER EXTRA		RATE ($)	FEE ($)
☐ BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A		N/A	
☐ SEARCH FEE (37 CFR 1.16(k), (i), or (m))	N/A	N/A		N/A	
☐ EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A		N/A	
TOTAL CLAIMS (37 CFR 1.16(i))	minus 20 =	*		x $50 =	
INDEPENDENT CLAIMS (37 CFR 1.16(h))	minus 3 =	*		x $230 =	
☐ APPLICATION SIZE FEE (37 CFR 1.16(s))	If the specification and drawings exceed 100 sheets of paper, the application size fee due is $310 ($155 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).				
☐ MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))					
* If the difference in column 1 is less than zero, enter "0" in column 2.				TOTAL	

APPLICATION AS AMENDED - PART II

		(Column 1)		(Column 2)	(Column 3)			
AMENDMENT	05/04/2022	CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA		RATE ($)	ADDITIONAL FEE ($)
	Total (37 CFR 1.16(i))	* 20	Minus	** 20	= 0		x $50 =	0
	Independent (37 CFR 1.16(h))	* 3	Minus	*** 3	= 0		x $240 =	0
	☐ Application Size Fee (37 CFR 1.16(s))							
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))							
							TOTAL ADD'L FEE	0

		(Column 1)		(Column 2)	(Column 3)			
AMENDMENT		CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA		RATE ($)	ADDITIONAL FEE ($)
	Total (37 CFR 1.16(i))	*	Minus	**	=		x $0 =	
	Independent (37 CFR 1.16(h))	*	Minus	***	=		x $0 =	
	☐ Application Size Fee (37 CFR 1.16(s))							
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))							
							TOTAL ADD'L FEE	

* If the entry in column 1 is less than the entry in column 2, write "0" in column 3.	SLIE
** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20".	/JOCELYN M GASKINS/
*** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3".	
The "Highest Number Previously Paid For" (Total or Independent) is the highest number found in the appropriate box in column 1.	

This collection of information is required by 37 CFR 1.16. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

Doc Code: DIST.E.FILE **Document Description: Electronic Terminal Disclaimer - Filed**	PTO/SB/26 U.S. Patent and Trademark Office Department of Commerce

Electronic Petition Request	**TERMINAL DISCLAIMER TO OBVIATE A DOUBLE PATENTING REJECTION OVER A "PRIOR" PATENT**
Application Number	16517268
Filing Date	19-Jul-2019
First Named Inventor	Roger Ignon
Attorney Docket Number	EDGE.005C7
Title of Invention	DEVICES AND METHODS FOR TREATING SKIN

☒ Filing of terminal disclaimer does not obviate requirement for response under 37 CFR 1.111 to outstanding Office Action

☒ This electronic Terminal Disclaimer is not being used for a Joint Research Agreement.

Owner	Percent Interest
EDGE SYSTEMS LLC	100%

The owner(s) with percent interest listed above in the instant application hereby disclaims, except as provided below, the terminal part of the statutory term of any patent granted on the instant application which would extend beyond the expiration date of the full statutory term of prior patent number(s)

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as the term of said prior patent is presently shortened by any terminal disclaimer. The owner hereby agrees that any patent so granted on the instant application shall be enforceable only for and during such period that it and the prior patent are commonly owned. This agreement runs with any patent granted on the instant application and is binding upon the grantee, its successors or assigns.

In making the above disclaimer, the owner does not disclaim the terminal part of the term of any patent granted on the instant application that would extend to the expiration date of the full statutory term of the prior patent, "as the term of said prior patent is presently shortened by any terminal disclaimer," in the event that said prior patent later:
- expires for failure to pay a maintenance fee;
- is held unenforceable;
- is found invalid by a court of competent jurisdiction;
- is statutorily disclaimed in whole or terminally disclaimed under 37 CFR 1.321;
- has all claims canceled by a reexamination certificate;
- is reissued; or
- is in any manner terminated prior to the expiration of its full statutory term as presently shortened by any terminal disclaimer.

◉ Terminal disclaimer fee under 37 CFR 1.20(d) is included with Electronic Terminal Disclaimer request.

○ I certify, in accordance with 37 CFR 1.4(d)(4), that the terminal disclaimer fee under 37 CFR 1.20(d) required for this terminal disclaimer has already been paid in the above-identified application.	
Applicant claims the following fee status: ◉ Small Entity ○ Micro Entity ○ Regular Undiscounted I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.	
THIS PORTION MUST BE COMPLETED BY THE SIGNATORY OR SIGNATORIES I certify, in accordance with 37 CFR 1.4(d)(4) that I am: ◉ An attorney or agent registered to practice before the Patent and Trademark Office who is of record in this application Registration Number 61546 ○ A sole inventor ○ A joint inventor; I certify that I am authorized to sign this submission on behalf of all of the inventors as evidenced by the power of attorney in the application ○ A joint inventor; all of whom are signing this request	
Signature	/Theodore G. Papagiannis/
Name	Theodore G. Papagiannis

*Statement under 37 CFR 3.73(b) is required if terminal disclaimer is signed by the assignee (owner).
Form PTO/SB/96 may be used for making this certification. See MPEP § 324.

Electronic Patent Application Fee Transmittal

Application Number:	16517268
Filing Date:	19-Jul-2019
Title of Invention:	DEVICES AND METHODS FOR TREATING SKIN
First Named Inventor/Applicant Name:	Roger Ignon
Filer:	Theodore G. Papagiannis/Christina Graul
Attorney Docket Number:	EDGE.005C7

Filed as Small Entity

Filing Fees for Utility under 35 USC 111(a)

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Basic Filing:				
STATUTORY OR TERMINAL DISCLAIMER	2814	1	170	170
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Extension-of-Time:				
Miscellaneous:				
		Total in USD ($)		**170**

Doc Code: DISQ.E.FILE
Document Description: Electronic Terminal Disclaimer – Approved

Application No.: 16517268

Filing Date: 19-Jul-2019

Applicant/Patent under Reexamination: Ignon

Electronic Terminal Disclaimer filed on May 4, 2022

☒ APPROVED

This patent is subject to a terminal disclaimer

☐ DISAPPROVED

Approved/Disapproved by: Electronic Terminal Disclaimer automatically approved by EFS-Web

U.S. Patent and Trademark Office

Electronic Acknowledgement Receipt	
EFS ID:	45636389
Application Number:	16517268
International Application Number:	
Confirmation Number:	9432
Title of Invention:	DEVICES AND METHODS FOR TREATING SKIN
First Named Inventor/Applicant Name:	Roger Ignon
Customer Number:	20995
Filer:	Theodore G. Papagiannis/Christina Graul
Filer Authorized By:	Theodore G. Papagiannis
Attorney Docket Number:	EDGE.005C7
Receipt Date:	04-MAY-2022
Filing Date:	19-JUL-2019
Time Stamp:	18:33:42
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	CARD
Payment was successfully received in RAM	$170
RAM confirmation Number	E202254I33360310
Deposit Account	111410
Authorized User	Christina Graul
The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows: 37 CFR 1.16 (National application filing, search, and examination fees) 37 CFR 1.17 (Patent application and reexamination processing fees)	

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Terminal Disclaimer-Filed (Electronic)	eTerminal-Disclaimer.pdf	41231 b60bc298fddc037cb4ff9b3faca4c55a37b8e86a	no	2
Warnings:					
Information:					
2	Fee Worksheet (SB06)	fee-info.pdf	37939 7c7a5ad1584ac6de38e60bc968dba2dc10a0967d	no	2
Warnings:					
Information:					
		Total Files Size (in bytes):	79170		

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111
If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.
National Stage of an International Application under 35 U.S.C. 371
If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.
New International Application Filed with the USPTO as a Receiving Office
If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Inventor: Roger Ignon et al.	**Conf. No.:** 9432
Appl. No.: 16/517,268	**Filed:** July 19, 2019
Examiner: Christian D. Knauss	**Art Unit:** 3771
Title: DEVICES AND METHODS FOR TREATING SKIN	

RESPONSE TO OFFICE ACTION

Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Commissioner:

This response is being submitted following the Office Action dated April 5, 2022 for the above-referenced application (the "Office Action").

Listing of the Claims begins on page 2 of this paper.

Remarks begin on page 5 of this paper.

LISTING OF THE CLAIMS

No amendments are presented herein to the claims.

1. (*Canceled*)

2. (*Previously Presented*) A skin treatment system comprising:

a manifold system in communication with a first container and at least a second container, wherein each of the first container and the at least second container is configured to contain a treatment material, the manifold system being positioned in or on a console;

a supply conduit placing the manifold system in fluid communication with a handpiece assembly;

wherein the handpiece assembly comprises a working end having a skin contact surface;

a vacuum source;

a waste conduit in fluid communication with the handpiece assembly and the vacuum source to move waste away from the working end of the handpiece assembly during a skin treatment procedure; and

at least one control to permit control of a flow of treatment material from the first container and the at least second container through the supply conduit to the handpiece assembly;

wherein the vacuum source is configured to create a suction force within the waste conduit and along the working end of the handpiece assembly to help remove waste from the handpiece assembly via the waste conduit and to help transfer at least one treatment material from the manifold system to the handpiece assembly.

3. (*Previously Presented*) The system of Claim 2, further comprising a computing device configured to control at least one function of the system.

4. (*Previously Presented*) The system of Claim 2, further comprising a user input device to facilitate control of a flow of treatment material from at least one of the first container and the at least second container to the handpiece assembly.

5. (*Previously Presented*) The system of Claim 4, wherein the user input device comprises a touch screen.

6. (*Previously Presented*) The system of Claim 2, further comprising a display.

7. (*Previously Presented*) The system of Claim 2, wherein the manifold system is in fluid communication with at least four containers.

8. (*Previously Presented*) The system of Claim 2, wherein the first container and the at least second container are configured to releasably couple to the manifold system.

9. (*Previously Presented*) The system of Claim 2, wherein treatment materials from the first container and the at least second container are configured to be delivered to the supply conduit sequentially or simultaneously.

10. (*Previously Presented*) A skin treatment system comprising:

a manifold system in communication with at least two containers that are configured to be secured to the manifold system, wherein each of the at least two containers is configured to contain a treatment material;

a handpiece assembly configured to contact a skin surface of a subject, wherein a supply conduit places the manifold system in fluid communication with the handpiece assembly;

a vacuum source; and

a waste conduit in fluid communication with the handpiece assembly and the vacuum source to move waste away from the handpiece assembly;

wherein the system is configured to deliver at least one treatment material from at least one of the at least two containers to the handpiece assembly via the supply conduit using, at least in part, a vacuum created along a distal end of the handpiece assembly by the vacuum source.

11. (*Previously Presented*) The system of Claim 10, wherein the manifold system is positioned in a console.

12. (*Previously Presented*) The system of Claim 10, further comprising a computing device configured to control at least one function of the system.

13. (*Previously Presented*) The system of Claim 10, further comprising a user input device to facilitate control of a flow of treatment materials from at least one of the at least two containers to the handpiece assembly.

14. (*Previously Presented*) The system of Claim 13, wherein the user input device comprises a touch screen.

15. (*Previously Presented*) The system of Claim 10, wherein treatment materials from a first container and a second container are configured to be delivered to the supply conduit sequentially or simultaneously.

16. (*Previously Presented*) A skin treatment system comprising:

a manifold system in communication with at least two containers, wherein each of the at least two containers is configured to contain a treatment material;

a handpiece assembly configured to contact a skin surface of a subject;

a supply conduit placing the manifold system, and thus the at least two containers, in fluid communication with the handpiece assembly; and

a waste conduit in fluid communication with the handpiece assembly and a vacuum source to move waste away from the handpiece assembly; and

wherein the system is configured to deliver treatment materials from at least one of the at least two containers to the handpiece assembly via the supply conduit using, at least in part, a vacuum created along a distal end of the handpiece assembly by the vacuum source.

17. (*Previously Presented*) The system of Claim 16, wherein the manifold system is positioned in a console.

18. (*Previously Presented*) The system of Claim 16, further comprising a computing device configured to control at least one function of the system.

19. (*Previously Presented*) The system of Claim 16, further comprising a user input device to facilitate control a flow of treatment materials from at least one of the at least two containers to the handpiece assembly.

20. (*Previously Presented*) The system of Claim 19, wherein the user input device comprises a touch screen.

21. (*Previously Presented*) The system of Claim 16, wherein treatment materials from the first container and the at least second container are configured to be delivered to the supply conduit sequentially or simultaneously.

REMARKS

The following remarks are responsive to the Office Action. Claims 2 to 21 are currently pending in this application. As reflected in the foregoing listing of claims, no amendments are presented herein. Further, as noted below, in order to expedite allowance of the present application and without acquiescing to any of the rejections presented in the Office Action, Applicant is filing a Terminal Disclaimer herewith to overcome the double patenting rejections included in the Office Action. Applicant reserves the right to pursue claims similar to the original claims or previously-pending versions of the claims in a continuing application. Accordingly, Claims 2 to 21 are presented for further consideration.

Allowable Subject Matter

Applicant thanks the Examiner for concluding that Claims 2 to 21 are allowable subject to overcoming the double patenting rejections presented in the Office Action.

Double Patenting Rejections

According to the Office Action, Claims 2, 4 to 6, 10, 11, 13, 14, 16, 17, 19 and 20 stand rejected on the ground of nonstatutory double patenting over certain claims of U.S. Pat. No. 9,550,052. Further, Claims 3, 12 and 18 stand rejected on the ground of nonstatutory double patenting over certain claims of U.S. Pat. No. 9,550,052 in view of U.S. Pat. No. 6,162,232 to Shadduck. In addition, Claims 7, 9, 15 and 21 stand rejected on the ground of nonstatutory double patenting over certain claims of U.S. Pat. No. 9,550,052 in view of U.S. Publ. No. 2001/0049511 to Coleman et al. Finally, Claim 8 stands rejected on the ground of nonstatutory double patenting over certain claims of U.S. Pat. No. 9,550,052 in view of U.S. Publ. No. 2003/0093089 to Greenberg. Applicant respectfully disagrees and traverses these rejections. However, in order to advance prosecution and place the present application in condition of allowance, without acquiescing to any double patenting rejections of the Office Action, Applicant is submitting concurrently with the filing of this response a Terminal Disclaimer with respect to U.S. Patent No. 9,550,052. By filing the Terminal Disclaimer, Applicant does not acquiesce to any characterization or scope of the pending claims vis-à-vis U.S. Patent No. 9,550,052, or vice versa.

In view of this response and the accompanying Terminal Disclaimer, Applicant respectfully asserts that the present application is now in condition for allowance. If any issues remain, the Examiner is respectfully requested to contact the undersigned.

No Disclaimers or Disavowals

Although the present communication may include alterations to the application or claims, or characterizations of claim scope or referenced art, Applicant is not conceding in this application that previously pending claims are not patentable over the cited references. Rather, any alterations or characterizations are being made to facilitate expeditious prosecution of this application. Applicant reserves the right to pursue at a later date any previously pending or other broader or narrower claims that capture any subject matter supported by the present disclosure, including subject matter found to be specifically disclaimed herein or by any prior prosecution. Accordingly, reviewers of this or any parent, child or related prosecution history shall not reasonably infer that Applicant has made any disclaimers or disavowals of any subject matter supported by the present application.

Patents and Applications of Assignee

Applicant wishes to draw the Examiner's attention to the following U.S. patents and patent applications of the present application's assignee.

Attorney Docket No.	Appl. No. (Pat. No., if appl.)	Filing Date	Title
EDGE.004A	09/648,025 (Pat. No. 6,641,591)	Aug. 25, 2000	INSTRUMENTS AND TECHNIQUES FOR CONTROLLED REMOVAL OF EPIDERMAL LAYERS
EDGE.004C1	10/699,747 (Pat. No. 7,789,886)	Nov. 3, 2003	INSTRUMENTS AND TECHNIQUES FOR CONTROLLED REMOVAL OF EPIDERMAL LAYERS
EDGE.004C1DV1	11/739,615 (Pat. No. 8,337,513)	Apr. 24, 2007	INSTRUMENTS AND TECHNIQUES FOR CONTROLLED REMOVAL OF EPIDERMAL LAYERS
EDGE.004C2	11/417,709 (Pat. No. 8,066,716)	May 3, 2006	INSTRUMENTS AND TECHNIQUES FOR CONTROLLED REMOVAL OF EPIDERMAL LAYERS
EDGE.004C3	11/417,396 (Pat. No. 7,678,120)	May 3, 2006	INSTRUMENTS AND TECHNIQUES FOR CONTROLLED REMOVAL OF EPIDERMAL LAYERS
EDGE.004C5	14/702,509 (Pat. No. 9,775,646)	May 1, 2015	DEVICES AND SYSTEMS FOR TREATING THE SKIN USING VACUUM
EDGE.004C6	14/702,486 (Pat. No. 9,468,464)	May 1, 2015	METHODS FOR TREATING THE SKIN USING VACUUM
EDGE.005A	11/392,348 (Pat. No. 8,048,089)	Mar. 29, 2006	APPARATUS AND METHODS FOR TREATING THE SKIN
EDGE.005C1	13/267,554 (Pat. No. 9,474,886)	Oct. 6, 2011	REMOVABLE TIPS FOR SKIN TREATMENT SYSTEMS

Attorney Docket No.	Appl. No. (Pat. No., if appl.)	Filing Date	Title
EDGE.005C2	14/698,673 (Pat No. 9,550,052)	Apr. 28, 2015	CONSOLE SYSTEM FOR THE TREATMENT OF SKIN
EDGE.005C3	14/698,713 (Pat. No. 9,662,482)	Apr. 28, 2015	METHODS AND SYSTEMS FOR EXTRACTION OF MATERIALS FROM SKIN
EDGE.005C4	14/700,789 (Pat. No. 9,814,868)	Apr. 30, 2015	TIP WITH EMBEDDED MATERIALS FOR SKIN TREATMENT
EDGE.005C5	15/660,750 (Pat. No. 10/357,641)	Jul. 26, 2017	TIPS FOR SKIN TREATMENT DEVICE
EDGE.005C6	15/660,777 (Pat. No. 10/357,642)	Jul. 26, 2017	REMOVABLE TIPS FOR USE WITH SKIN TREATMENT SYSTEMS
EDGE.005C7	**16/517,268** ***(present application)***	**July 19, 2019**	**DEVICES AND METHODS FOR TREATING SKIN**
EDGE.005C8	17/165,820	Feb. 2, 2021	DEVICES AND METHODS FOR TREATING SKIN
EDGE.005C9	17/165,807	Feb. 2, 2021	DEVICES AND METHODS FOR TREATING SKIN
EDGE.006A	09/294,254 (Pat. No. 6,162,232)	Apr. 19, 1999	INSTRUMENTS AND TECHNIQUES FOR HIGH-VELOCITY FLUID ABRASION OF EPIDERMAL LAYERS WITH SKIN COOLING
EDGE.007A	09/475,480 (Pat. No. 6,299,620)	Dec. 30, 1999	INSTRUMENTS AND TECHNIQUES FOR INDUCING NEOCOLLAGENESIS IN SKIN TREATMENTS
EDGE.008A	09/475,479 (Pat. No. 6,387,103)	Dec. 30, 1999	INSTRUMENTS AND TECHNIQUES FOR INDUCING NEOCOLLAGENESIS IN SKIN TREATMENTS
EDGE.022A	11/370,200	Mar. 7, 2006	MICRODERMABRASION METHOD AND APPARATUS
EDGE.044A	12/362,353 (Pat. No. 9,056,193)	Jan. 29, 2009	APPARATUS AND METHOD FOR TREATING THE SKIN
EDGE.044C1	14/734,995 (Pat. No. 11,020,577)	Jun. 9, 2015	DEVICES AND SYSTEMS FOR TREATING SKIN SURFACES
EDGE.044C2	17/332,897	May 27, 2021	DEVICES, SYSTEMS, AND METHODS FOR TREATING THE SKIN
EDGE.044CP1	12/832,663 (Pat. No. 8,814,836)	Jul 8, 2010	DEVICES, SYSTEMS AND METHODS FOR TREATING THE SKIN USING TIME-RELEASE SUBSTANCES
EDGE.044P1C1	14/455,762 (Pat. No. 9,642,997)	Aug. 8, 2014	DEVICES FOR TREATING SKIN USING TREATMENT MATERIALS LOCATED ALONG A TIP
EDGE.044P1C2	15/588,102 (Pat. No. 10,556,097)	May 5, 2017	DEVICES FOR TREATING SKIN USING TREATMENT MATERIALS LOCATED ALONG A TIP
EDGE.044P1C3	16/784,850	Feb. 7, 2020	DEVICES AND METHODS FOR TREATING SKIN
EDGE.047A	12/346,582 (Pat. No. 8,343,116)	Dec. 30, 2008	APPARATUS AND METHOD FOR TREATING THE SKIN
EDGE.047C1	13/620,376 (Pat. No. 9,486,615)	Sep. 14, 2012	MICRODERMABRASION APPARATUS AND METHOD
EDGE.047C2	15/344,357 (Pat. No. 10,556,096)	Nov. 4, 2016	DEVICES AND METHODS FOR SKIN TREATMENT
EDGE.047C3	16/784,044	Feb. 6, 2020	DEVICES AND METHODS FOR SKIN TREATMENT
EDGE.050A	09/540,945 (Pat. No. 6,592,595)	Mar. 31, 2000	MICRODERMABRASION AND SUCTION MASSAGE APPARATUS AND METHOD
EDGE.050C1	09/698,409 (Pat. No. 6,527,783)	Oct. 27, 2000	MICRODERMABRASION AND SUCTION MASSAGE APPARATUS AND METHOD
EDGE.050DV1	10/177,173 (Pat. No. 6,673,082)	Jun. 20, 2002	MICRODERMABRASION HANDPIECE WITH SUPPLY AND RETURN LUMENS

Attorney Docket No.	Appl. No. (Pat. No., if appl.)	Filing Date	Title
EDGE.051A	10/315,478 (Pat. No. 6,942,649)	Dec. 10, 2002	MICRODERMABRASION FLUID APPLICATION SYSTEM AND METHOD
EDGE.052A	09/699,220 (Pat. No. 6,629,983)	Oct. 27, 2000	APPARATUS AND METHOD FOR SKIN/SURFACE ABRASION
EDGE.065A	14/211,089 (Pat. No. 10,238,812)	Mar. 14, 2014	SKIN TREATMENT SYSTEMS AND METHODS USING NEEDLES
EDGE.065C1	16/363,310	Mar. 25, 2019	SKIN TREATMENT SYSTEMS AND METHODS USING NEEDLES
EDGE.077A	14/211,290 (Pat. No. 9,566,088)	Mar. 14, 2014	DEVICES, SYSTEMS AND METHODS FOR TREATING THE SKIN
EDGE.077C1	15/430,209 (Pat. No. 10,251,675)	Feb. 10, 2017	DEVICES, SYSTEMS AND METHODS FOR TREATING THE SKIN
EDGE.077C2	16/376,956	Apr. 5, 2019	DEVICES, SYSTEMS AND METHODS FOR TREATING THE SKIN
EDGE.077NP	14/774,641 (Pat. No. 10,172,644)	Sep. 10, 2015	DEVICES, SYSTEMS AND METHODS FOR TREATING THE SKIN
EDGE.077NPC1	16/241,572 (Pat. No. 10,993,743)	Jan. 7, 2019	DEVICES, SYSTEMS AND METHODS FOR TREATING THE SKIN
EDGE.077NPC2	17/163,128	Jan. 29, 2021	DEVICES, SYSTEMS AND METHODS FOR TREATING THE SKIN
EDGE.077NPC3	17/163,199	Jan. 29, 2021	DEVICES, SYSTEMS AND METHODS FOR TREATING THE SKIN
EDGE.077NPC4	17/163,237 (Pat. No. 11,202,657)	Jan. 29, 2021	DEVICES, SYSTEMS AND METHODS FOR TREATING THE SKIN
EDGE.077NPC5	17/163,240 (Pat. No. 11,213,321)	Jan. 29, 2021	DEVICES, SYSTEMS AND METHODS FOR TREATING THE SKIN
EDGE.090A	14/998,375 (Pat. No. 9,498,610)	Dec. 23, 2015	DEVICES AND METHODS FOR TREATING THE SKIN USING A ROLLERBALL OR A WICKING MEMBER
EDGE.090C1	15/354,754 (Pat. No. 10,035,007)	Nov. 17, 2016	DEVICES AND METHODS FOR TREATING THE SKIN
EDGE.090C2	16/040,397	July 19, 2018	DEVICES AND METHODS FOR TREATING THE SKIN
EDGE.090C3	17/164,580	Feb. 1, 2021	DEVICES AND METHODS FOR TREATING THE SKIN
EDGE.090P1	15/498,416 (Pat. No. 10,179,229)	Apr. 26, 2017	DEVICES AND METHODS FOR TREATING THE SKIN USING A POROUS MEMBER
EDGE.090P1C1	16/246,306 (Pat. No. 11,224,728)	Jan. 11, 2019	DEVICES AND METHODS FOR TREATING THE SKIN USING A POROUS MEMBER
EDGE.090P1C2	17/576,888	Jan. 14, 2022	DEVICES AND METHODS FOR TREATING THE SKIN
EDGE.091A	15/204,939 (Pat. No. 11,241,357)	Jul. 7, 2016	DEVICES, SYSTEMS AND METHODS FOR PROMOTING HAIR GROWTH
EDGE.091C1	17/592,432	Feb. 3, 2022	DEVICES, SYSTEMS AND METHODS FOR IMPROVING SCALP HEALTH
EDGE.172DA	29/811,066	Oct. 11, 2021	SKIN TREATMENT SYSTEM
EDGE.173DA	29/807,430	Sep. 10, 2021	SKIN TREATMENT DEVICE
EDGE.174DA	29/807,428	Sep. 10, 2021	CONTAINER FOR A SKIN TREATMENT DEVICE
EDGE.179DA	29/829,476	Mar. 4, 2022	LIGHT THERAPY DEVICE FOR SKIN CARE

Attorney Docket No.	Appl. No. (Pat. No., if appl.)	Filing Date	Title
EDGE.180DA	29/811,070	Oct. 11, 2021	SKIN TREATMENT TIP

Copies of these patents and patent applications, including any pending claims, office actions, allowances and/or other communications, are available through PALM and/or PAIR. However, if the Examiner so requests, Applicant will be happy to provide the Examiner with copies of any applications, pending claims, office actions, allowances, communications or any other documents, at any time.

Further, Applicant notes for the record that the claims of the present application are different and may be broader in scope than the claims in any related patent or application. To the extent that any statements made in a related case (such as amendments or characterizations regarding the scope of a claim or prior art) could be construed as a disclaimer of any subject matter supported by the present disclosure, Applicant rescinds and retracts such disclaimer. Accordingly, any listed or referenced prior art may need to be re-visited. Further, any objections or rejections made by the Examiner in the issued and allowed cases identified above may need to be re-visited.

CONCLUSION

In view of the foregoing remarks and the accompanying Terminal Disclaimer, Applicant respectfully submits that the claims are now in condition for allowance. If any issues remain or otherwise require clarification, the Examiner is respectfully requested to contact Applicant's attorney at the below-listed telephone number to promptly resolve such issues.

Please charge any additional fees, including any fees for additional extension of time, or credit overpayment to Deposit Account No. 11-1410.

Respectfully submitted,

KNOBBE, MARTENS, OLSON & BEAR, LLP

Dated: May 4, 2022

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55499662

Electronic Acknowledgement Receipt	
EFS ID:	45636184
Application Number:	16517268
International Application Number:	
Confirmation Number:	9432
Title of Invention:	DEVICES AND METHODS FOR TREATING SKIN
First Named Inventor/Applicant Name:	Roger Ignon
Customer Number:	20995
Filer:	Theodore G. Papagiannis/Christina Graul
Filer Authorized By:	Theodore G. Papagiannis
Attorney Docket Number:	EDGE.005C7
Receipt Date:	04-MAY-2022
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Time Stamp:	18:24:02
Application Type:	Utility under 35 USC 111(a)

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Submitted with Payment	no

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Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1		EDGE005C7_OAR.pdf	171821 ea0a413a1bca2c35f460457b865fb734957abd4b	yes	10

	Multipart Description/PDF files in .zip description		
	Document Description	**Start**	**End**
	Amendment/Request for Reconsideration-After Non-Final Rejection	1	1
	Claims	2	4
	Applicant Arguments/Remarks Made in an Amendment	5	10
Warnings:			
Information:			
	Total Files Size (in bytes):	171821	

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

<u>New Applications Under 35 U.S.C. 111</u>
If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.
<u>National Stage of an International Application under 35 U.S.C. 371</u>
If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.
<u>New International Application Filed with the USPTO as a Receiving Office</u>
If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
16/517,268	07/19/2019	Roger Ignon	EDGE.005C7	9432

20995 7590 04/05/2022

KNOBBE MARTENS OLSON & BEAR LLP
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EXAMINER	
KNAUSS, CHRISTIAN D	

ART UNIT	PAPER NUMBER
3771	

NOTIFICATION DATE	DELIVERY MODE
04/05/2022	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

efiling@knobbe.com
jayna.cartee@knobbe.com

Office Action Summary	Application No. 16/517,268	Applicant(s) Ignon et al.	
	Examiner CHRISTIAN D KNAUSS	Art Unit 3771	AIA (FITF) Status No

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTHS FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☑ Responsive to communication(s) filed on 15 December 2021.

☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on _____.

2a)☐ This action is **FINAL.** 2b) ☑ This action is non-final.

3)☐ An election was made by the applicant in response to a restriction requirement set forth during the interview on _____; the restriction requirement and election have been incorporated into this action.

4)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims*

5) ☑ Claim(s) 2-21 is/are pending in the application.

5a) Of the above claim(s) _____ is/are withdrawn from consideration.

6) ☐ Claim(s) _____ is/are allowed.

7) ☑ Claim(s) 2-21 is/are rejected.

8) ☐ Claim(s) _____ is/are objected to.

9) ☐ Claim(s) _____ are subject to restriction and/or election requirement

* If any claims have been determined allowable, you may be eligible to benefit from the **Patent Prosecution Highway** program at a participating intellectual property office for the corresponding application. For more information, please see http://www.uspto.gov/patents/init_events/pph/index.jsp or send an inquiry to **PPHfeedback@uspto.gov.**

Application Papers

10)☐ The specification is objected to by the Examiner.

11)☑ The drawing(s) filed on 19 July 2019 is/are: a)☑ accepted or b)☐ objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

Priority under 35 U.S.C. § 119

12)☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

Certified copies:

a)☐ All b)☐ Some** c)☐ None of the:

1.☐ Certified copies of the priority documents have been received.

2.☐ Certified copies of the priority documents have been received in Application No. _____.

3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

** See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) ☑ Notice of References Cited (PTO-892)

2) ☑ Information Disclosure Statement(s) (PTO/SB/08a and/or PTO/SB/08b) Paper No(s)/Mail Date _____.

3) ☐ Interview Summary (PTO-413) Paper No(s)/Mail Date _____.

4) ☐ Other: _____.

DETAILED ACTION

Notice of Pre-AIA or AIA Status

1. The present application is being examined under the pre-AIA first to invent provisions.

Continued Examination Under 37 CFR 1.114

2. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 12/15/21 has been entered.

Response to Amendment

3. Claims 2-21 are pending in the application. Claim 1 has been canceled. Claims 2, 10, 13, 15, and 16 have been amended.

Information Disclosure Statement

4. The information disclosure statements (IDS) submitted on 2/15/22 are in compliance with the provisions of 37 CFR 1.97. Accordingly, the information disclosure statements are being considered by the examiner.

Double Patenting

5. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. A nonstatutory double patenting rejection is appropriate where the conflicting claims are not identical, but at least one examined application claim is not patentably distinct from the reference claim(s) because the examined application claim is either anticipated by, or would have been obvious over, the reference claim(s). See, e.g., *In re Berg*, 140 F.3d 1428, 46 USPQ2d 1226 (Fed. Cir. 1998); *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) or 1.321(d) may be used to overcome an actual or provisional rejection based on nonstatutory double patenting provided the reference application or patent either is shown to be commonly owned with the examined application, or claims an invention made as a result of activities undertaken within the scope of a joint research agreement. See MPEP § 717.02 for applications subject to examination under the first inventor to file provisions of the AIA as explained in MPEP § 2159. See MPEP § 2146 *et seq.* for applications not subject to examination under the first inventor to file provisions of the AIA. A terminal disclaimer must be signed in compliance with 37 CFR 1.321(b).

The USPTO Internet website contains terminal disclaimer forms which may be used. Please visit www.uspto.gov/patent/patents-forms. The filing date of the application in which the form is filed determines what form (e.g., PTO/SB/25, PTO/SB/26, PTO/AIA/25, or PTO/AIA/26) should be used. A web-based eTerminal Disclaimer may be filled out completely online using web-screens. An eTerminal Disclaimer that meets all requirements is auto-processed and approved immediately upon submission. For more information about eTerminal Disclaimers, refer to www.uspto.gov/patents/process/file/efs/guidance/eTD-info-I.jsp.

6. Claims 2, 4-6, 10, 11, 13, 14, 16, 17, 19, and 20 are rejected on the ground of nonstatutory double patenting as being unpatentable over claims 1-3 of U.S. Patent No. 9,550,052 B2. Although the claims at issue are not identical, they are not patentably distinct from each other because:

Regarding claim 2 of the instant application, US 9,550,052 B2 discloses a skin treatment system comprising: a manifold system in communication with a first container and at least a second container (Claim 1; see Column 21, lines 14-16), wherein each of the first container and the at least second container is configured to contain a treatment material (Claim 1; see Column 21, lines 16-20), the manifold system being positioned in or on a console (Claim 1; see Column 21, line 14); a supply conduit placing the manifold system in fluid communication with a handpiece assembly (Claim 1; see Column 21, lines 23-26); wherein the handpiece assembly comprises a working end having a skin contact surface (Claim 1; see Column 21, lines 21-22 and 41-42); a vacuum source (Claim 1; see Column 21, line 31); a waste conduit in fluid communication with the

handpiece assembly and the vacuum source to move waste away from the working end of the handpiece assembly during a skin treatment procedure (Claim 1; see Column 21, lines 32-36); and at least one control to permit control of a flow of treatment material from the first container and the at least second container through the supply conduit to the handpiece assembly (Claim 2; see Column 21, lines 49-53); wherein the vacuum source is configured to create a suction force within the waste conduit and along the working end of the handpiece assembly to help remove waste from the handpiece assembly via the waste conduit and to help transfer at least one treatment material from the manifold system to the handpiece assembly (Claim 1; see Column 21, lines 42-48).

Regarding claim 4 of the instant application, US 9,550,052 B2 discloses a user input device to facilitate control of a flow of treatment material from at least one of the first container and the at least second container to the handpiece assembly (Claim 2; see Column 21, lines 49-53).

Regarding claim 5 of the instant application, US 9,550,052 B2 discloses that the user input device comprises a touch screen (Claim 3; see Column 21, lines 49-55).

Regarding claim 6 of the instant application, US 9,550,052 B2 discloses a display (Claim 2; see Column 21, lines 49-50).

Regarding claim 10 of the instant application, US 9,550,052 B2 discloses a skin treatment system comprising: a manifold system in communication with at least two containers that are configured to be secured to the manifold system, wherein each of the at least two containers is configured to contain a treatment material (Claim 1; see Column 21, lines 14-20); a handpiece assembly configured to contact a skin surface of a subject (Claim 1 see; Column 21, lines 21-22 and 41-42), wherein a supply conduit

places the manifold system in fluid communication with the handpiece assembly (Claim 1; see Column 21, lines 23-24); a vacuum source (Claim 1; see Column 21, line 31); and a waste conduit in fluid communication with the handpiece assembly and the vacuum source to move waste away from the handpiece assembly (Claim 1; see Column 21, lines 32-36); wherein the system is configured to deliver at least one treatment material from at least one of the at least two containers to the handpiece assembly via the supply conduit using, at least in part, a vacuum created along a distal end of the handpiece assembly by the vacuum source (Claim 1; see Column 21, lines 42-48).

Regarding claim 11 of the instant application, US 9,550,052 B2 discloses that the manifold system is positioned in a console (Claim 1; see Column 21, line 14).

Regarding claim 13 of the instant application, US 9,550,052 B2 discloses a user input device to facilitate control of a flow of treatment materials from at least one of the at least two containers to the handpiece assembly (Claim 2; see Column 21, lines 49-53).

Regarding claim 14 of the instant application, US 9,550,052 B2 discloses that the user input device comprises a touch screen (Claims 2 and 3; see Column 21, lines 49-55).

Regarding claim 16 of the instant application, US 9,550,052 B2 discloses a skin treatment system comprising: a manifold system in communication with at least two containers, wherein each of the at least two containers is configured to contain a treatment material (Claim 1; see Column 21, lines 14-20); a handpiece assembly configured to contact a skin surface of a subject (Claim 1; see Column 21, lines 21-22);

a supply conduit placing the manifold system, and thus the at least two containers, in fluid communication with the handpiece assembly (Claim 1; see Column 21, lines 23-26); and a waste conduit in fluid communication with the handpiece assembly and a vacuum source to move waste away from the handpiece assembly (Claim 1; see Column 21, lines 32-36); and wherein the system is configured to deliver treatment materials from at least one of the at least two containers to the handpiece assembly via the supply conduit using, at least in part, a vacuum created along a distal end of the handpiece assembly by the vacuum source (Claim 1; see Column 21, lines 42-48).

Regarding claim 17 of the instant application, US 9,550,052 B2 discloses that the manifold system is positioned in a console (Claim 1; see Column 21, line 14).

Regarding claim 19 of the instant application, US 9,550,052 B2 discloses a user input device to facilitate control of a flow of treatment materials from at least one of the at least two containers to the handpiece assembly (Claim 2; see Column 21, lines 49-53).

Regarding claim 20 of the instant application, US 9,550,052 B2 discloses that the user input device comprises a touch screen (Claims 2 and 3; see Column 21, lines 49-55).

7. Claims 3, 12, and 18 are rejected on the ground of nonstatutory double patenting as being unpatentable over claims 1-3 of U.S. Patent No. 9,550,052 B2 in view of Shadduck (US 6,162,232).

Regarding claims 3, 12, and 18 of the instant application, US 9,550,052 B2 discloses the invention substantially as claimed. However, the patent fails to disclose a computing device configured to control at least one function of the system.

In the same field of endeavor, Shadduck discloses (Figures 2A and 2B) a skin treatment system (5) comprising a computing system (25) to control and modulate the introduction and termination fluid flows into the working end of a handpiece assembly, as well as aspiration power settings, to insure optimal abrasion effects and the capture of spent fluids (Column 5, lines 33-37).

It would have been obvious to one having ordinary skill in the art before the invention was made to modify the skin treatment system disclosed by US 9,550,052 B2 to comprise a computing device to control and modulate the introduction and termination fluid flows into the working end of a handpiece assembly, as well as aspiration power settings, as taught by Shadduck. This modification would ensure optimal abrasion effects and the capture of spent fluids (Shadduck, Column 5, lines 33-37).

8. Claims 7, 9, 15, and 21 are rejected on the ground of nonstatutory double patenting as being unpatentable over claims 1-3 of U.S. Patent No. 9,550,052 B2 in view of Coleman et al. (US 2001/0049511 A1) ("Coleman").

Regarding claim 7 of the instant application, US 9,550,052 B2 discloses the invention substantially as claimed. However, the patent fails to disclose that the manifold system is in fluid communication with at least four containers.

In the same field of endeavor, Coleman teaches a skin treatment system with a manifold system (62A-62D) that is in fluid communication with at least four containers (60A, 60B, 60C, 61A). Coleman teaches that the four containers can contain various materials, including: benign abrasives, a chosen medicinal component, a combination of medicines, and sterile water (paragraph 0058).

It would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the manifold system disclosed by US 9,550,052 B2 to be in fluid communication with at least four containers, as taught by Coleman. This modification would allow various materials to be used in skin treatment procedures, including: benign abrasives, a chosen medicinal component, a combination of medicines, and sterile water (Coleman, paragraph 0058).

Regarding claims 9, 15, and 21 of the instant application, US 9,550,052 B2 discloses the invention substantially as claimed. However, the patent fails to disclose that treatment materials from the first container and the at least second container are configured to be delivered to the supply conduit simultaneously.

In the same field of endeavor, Coleman teaches a skin treatment system with a manifold system (62A-62D) that is in fluid communication with at least four containers

(60A, 60B, 60C, 61A). Coleman teaches that treatment materials from the first container and the at least second container are configured to be delivered to the supply conduit simultaneously (paragraph 0060).

It would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the skin treatment system disclosed by US 9,550,052 B2 to deliver treatment materials from the first container and the at least second container to the supply conduit simultaneously, as taught by Coleman. This will provide a composite stream of water/abrasive/medicine to the skin (Coleman, paragraph 0060). Water and abrasive would assist in the removal of surface cells from the skin. Medicines would include: anesthetics to deaden the skin being abraded, coagulants to minimize bleeding, and/or antiseptics to combat infection (Coleman, abstract).

9. Claim 8 is rejected on the ground of nonstatutory double patenting as being unpatentable over claims 1-3 of U.S. Patent No. 9,550,052 B2 in view of Greenberg (US 2003/0093089 A1).

Regarding claim 8 of the instant application, US 9,550,052 B2 discloses the invention substantially as claimed. However, the patent fails to disclose that the first container and the at least second container are configured to releasably couple to the manifold system.

In the same field of endeavor, Greenberg discloses (Figures 1 and 2) a system for performing a skin treatment procedure, the system comprising: a console (10) including a manifold, a container (18), a handpiece assembly (16), a supply conduit (20), and a waste conduit (20). Greenberg teaches that the container is releasably

coupled to the manifold to allow an operator to change the treatment material at his/her discretion (paragraph 0079).

It would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the containers disclosed by US 9,550,052 B2 to be configured to releasably couple to the manifold system, as taught by Greenberg. This modification would allow the operator to change the treatment material at his/her discretion (Greenberg, paragraph 0079).

Allowable Subject Matter

10. Claims 2-21 are allowable over the prior art of record, pending the Double Patenting rejections above are overcome.

11. The following is a statement of reasons for the indication of allowable subject matter: Claims 2, 10, and 16 have all been amended to require that the vacuum source is configured to both remove waste from the handpiece assembly and to help transfer treatment material from the containers to the handpiece assembly via the manifold system/supply conduit. The prior art of record fails to disclose or suggest a skin treatment system with a vacuum source carrying out both of those functions, in combination with the other structural features of the system (manifold system, supply conduit, handpiece assembly, waste conduit, etc.).

12. The Coleman reference discloses separate pumps (65A and 65B) that are configured to help remove waste from the handpiece assembly (65A) and transfer treatment material to the handpiece assembly (65B). Coleman discloses that the

pumps both share motor (66). However, Coleman fails to disclose a single vacuum source that carries out both functions.

13. Claims 3-9 are dependent on claim 2. Claims 11-15 are dependent on claim 10. Claims 17-21 are dependent on claim 16.

Conclusion

14. Any inquiry concerning this communication or earlier communications from the examiner should be directed to CHRISTIAN D KNAUSS whose telephone number is (571)272-8641. The examiner can normally be reached M-F 12:30-8:30.

Examiner interviews are available via telephone, in-person, and video conferencing using a USPTO supplied web-based collaboration tool. To schedule an interview, applicant is encouraged to use the USPTO Automated Interview Request (AIR) at http://www.uspto.gov/interviewpractice.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Darwin Erezo can be reached on 571-272-4695. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of published or unpublished applications may be obtained from Patent Center. Unpublished application information in Patent Center is available to registered users. To file and manage patent submissions in Patent Center, visit: https://patentcenter.uspto.gov. Visit https://www.uspto.gov/patents/apply/patent-center for more information about Patent Center and https://www.uspto.gov/patents/docx for information about filing in DOCX format. For additional questions, contact the Electronic Business Center (EBC) at 866-217-9197

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Representative, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/C.D.K/
Examiner, Art Unit 3771

/DARWIN P EREZO/
Supervisory Patent Examiner, Art Unit 3771

Notice of References Cited	Application/Control No. 16/517,268	Applicant(s)/Patent Under Reexamination Ignon et al.	
	Examiner CHRISTIAN D KNAUSS	Art Unit 3771	Page 1 of 1

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	CPC Classification	US Classification
*	A	US-9550052-B2	01-2017	Ignon; Roger	A61B50/13	1/1
	B					
	C					
	D					
	E					
	F					
	G					
	H					
	I					
	J					
	K					
	L					
	M					

FOREIGN PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	CPC Classification
	N					
	O					
	P					
	Q					
	R					
	S					
	T					

NON-PATENT DOCUMENTS

*		Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)
	U	
	V	
	W	
	X	

*A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).)
Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.

Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	16/517,268	Ignon et al.
	Examiner	Art Unit
	CHRISTIAN D KNAUSS	3771

CPC - Searched*		
Symbol	**Date**	**Examiner**
A61B17/50, 54, 545	03/12/2021	CDK
A61B2017/00017, 00199, 00743, 00747, 00761	03/12/2021	CDK
A61B19/0248	03/12/2021	CDK
A61B2019/025	03/12/2021	CDK
A61B2217/005, 007	03/12/2021	CDK
A61M35/003	03/12/2021	CDK
A61N5/0616	03/12/2021	CDK
A61B50/10, 13	03/12/2021	CDK

CPC Combination Sets - Searched*		
Symbol	**Date**	**Examiner**

US Classification - Searched*			
Class	**Subclass**	**Date**	**Examiner**

* See search history printout included with this form or the SEARCH NOTES box below to determine the scope of the search.

/C.D.K/ Examiner, Art Unit 3771	/ERICH G HERBERMANN/ Primary Examiner, Art Unit 3771

Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	16/517,268	Ignon et al.
	Examiner	Art Unit
	CHRISTIAN D KNAUSS	3771

Search Notes		
Search Notes	**Date**	**Examiner**
Performed inventor and assignee searches	03/12/2021	CDK
Performed SEARCH	03/12/2021	CDK
Performed backward/forward searches	03/12/2021	CDK
Performed CPC subgroup/text searches and combinations	03/12/2021	CDK
Updated SEARCH	09/08/2021	CDK
Updated SEARCH	03/23/2022	CDK
Consulted Diane Yabut regarding allowable subject matter	03/23/2022	CDK

Interference Search			
US Class/CPC Symbol	**US Subclass/CPC Group**	**Date**	**Examiner**

/C.D.K/ Examiner, Art Unit 3771	/ERICH G HERBERMANN/ Primary Examiner, Art Unit 3771

PE2E SEARCH - Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	British Equivalents	Time Stamp
L1	29	(roger near2 ignon).in.	(US-PGPUB; USPAT)	OR	OFF	OFF	2015/07/21 04:00 AM
L2	101	(scott near2 mallett).in.	(US-PGPUB; USPAT)	OR	OFF	OFF	2015/07/21 04:04 AM
L3	3	(abraham near2 solano).in.	(US-PGPUB; USPAT)	OR	OFF	OFF	2015/07/21 04:06 AM
L4	100	(william near2 cohen).in.	(US-PGPUB; USPAT)	OR	OFF	OFF	2015/07/21 04:07 AM
L5	24	(edge near2 systems).as.	(US-PGPUB; USPAT)	OR	OFF	OFF	2015/07/21 04:09 AM
L6	310	US-1234567-$.DID. OR US-2608032-$.DID. OR US-2701559-$.DID. OR US-2712823-$.DID. OR US-2867214-$.DID. OR US-2881763-$.DID. OR US-2921585-$.DID. OR US-3085573-$.DID. OR US-3214869-$.DID. OR US-3476112-$.DID. OR US-3574239-$.DID. OR US-3715838-$.DID. OR US-3948265-$.DID. OR US-3964212-$.DID. OR US-3977084-$.DID. OR US-4121388-$.DID. OR US-4155721-$.DID. OR US-4182329-$.DID. OR US-4203431-$.DID. OR US-4216233-$.DID. OR US-4299219-$.DID. OR US-4378804-$.DID. OR US-4560373-$.DID. OR US-4646480-$.DID. OR US-4646482-$.DID. OR US-4655743-$.DID. OR US-4676749-$.DID. OR US-4706676-$.DID. OR US-4754756-$.DID. OR US-4757814-$.DID. OR US-4764362-$.DID. OR US-4795421-$.DID. OR US-4875287-$.DID. OR US-4886078-$.DID. OR US-4887994-$.DID. OR US-4900316-$.DID. OR US-4917086-$.DID. OR US-4925450-$.DID. OR US-4957747-$.DID. OR US-5006004-$.DID. OR US-5006339-$.DID. OR	(US-PGPUB; USPAT)	OR	OFF	OFF	2015/07/21 04:14 AM

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L9	484	(console and manifold and fluid and container and hand$7 and (conduit tube) and vacuum)	(US-PGPUB; USPAT; EPO; JPO)	OR	OFF	OFF	2015/07/21 05:04 AM
L10	498	A61B17/54.cpc.	(US-PGPUB; USPAT)	OR	OFF	OFF	2015/07/21 06:13 AM
L11	136	A61B17/545.cpc.	(US-PGPUB; USPAT)	OR	OFF	OFF	2015/07/21 06:29 AM
L12	583	A61B19/0248.cpc.	(US-PGPUB; USPAT)	OR	OFF	OFF	2015/07/21 06:43 AM
L13	511	A61B2019/025.cpc.	(US-PGPUB; USPAT)	OR	OFF	OFF	2015/07/21 06:50 AM
L14	1159	A61B2017/00199.cpc.	(US-PGPUB; USPAT)	OR	OFF	OFF	2015/07/21 06:59 AM
L15	955	A61B2017/00017.cpc.	(US-PGPUB; USPAT)	OR	OFF	OFF	2015/07/21 07:15 AM
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L17	1269	A61B2217/007.cpc.	(US-PGPUB; USPAT)	OR	OFF	OFF	2015/07/21 07:21 AM
L18	38	("4183470" | "5186625" | "5240842" | "5350299" | "5362494" | "5441174" | "5547376" | "5591184" | "5634791" | "5657760" | "5752829" | "Re31887").PN. OR ("6264666").URPN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2015/07/21 10:03 AM
L19	59	("1772545" | "2109259" | "2453080" | "2547823" | "2618410" | "2711268" | "2962193" | "3217887" | "3647118").PN. OR ("3930598").URPN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2015/07/22 02:38 AM

L20	19	("3815286" | "5037432" | "5207234" | "5971999").PN. OR ("6238275").URPN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2015/07/22 04:07 AM
L21	51	("20010023351" | "2701559" | "2712823" | "2867214" | "2881763" | "2921585" | "3964212" | "4378804" | "4957747" | "5012797" | "5037431" | "5037432" | "5100412" | "5207034" | "5207234" | "5620414" | "5800446" | "5810842" | "5954730" | "5971999" | "6019749" | "6039745" | "6042552" | "6080165" | "6120512" | "6238275" | "6303119").PN. OR ("6527783").URPN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2015/07/22 04:09 AM
L22	32	("20010023351" | "5037432" | "5100412" | "5207034" | "5207234" | "5620414" | "5810842" | "5954730" | "5971999" | "6019749" | "6039745" | "6080165" | "6120512" | "6139554" | "6196982" | "6235039" | "6238275" | "6241739" | "6250996" | "6277003" | "6306119" | "6390899").PN. OR ("6673082").URPN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2015/07/22 04:09 AM
L23	42	("20010023351" | "4572187" | "5037432" | "5100412" | "5154696" | "5207234" | "5354307" | "5810842" | "5954730" | "5971999" | "6019749" | "6039745" | "6080165" | "6162232" | "6196982" | "6235039" | "6241739" | "6250996" | "6299620" | "6319211" | "6391034" | "6423078" | "6432113" | "6629983" | "6652888").PN. OR ("6942649").URPN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2015/07/22 04:16 AM
L24	38	("5037432" | "5100412" | "5810842" | "5971999").PN. OR ("6080165").URPN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2015/07/22 04:17 AM
L25	43	("20010023351" | "2701559" | "2712823" | "2867214" | "2881763" | "2921585" | "3964212" |	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2015/07/22 04:21 AM

		"4378804" | "4957747" | "5012797" | "5037431" | "5037432" | "5100412" | "5154696" | "5207234" | "5800446" | "5810842" | "5954730" | "5971999" | "6019749" | "6039745" | "6042552" | "6080165" | "6196982" | "6235039" | "6241739" | "6250996" | "6319211").PN. OR ("6592595").URPN.					
L26	32	("20010023351" | "5037432" | "5100412" | "5207034" | "5207234" | "5620414" | "5810842" | "5954730" | "5971999" | "6019749" | "6039745" | "6080165" | "6120512" | "6139554" | "6196982" | "6235039" | "6238275" | "6241739" | "6250996" | "6277003" | "6306119" | "6390899").PN. OR ("6673082").URPN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2015/07/22 04:21 AM
L27	19	("3815286" | "5037432" | "5207234" | "5971999").PN. OR ("6238275").URPN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2015/07/22 04:37 AM
L28	38	("4183470" | "5186625" | "5240842" | "5350299" | "5362494" | "5441174" | "5547376" | "5591184" | "5634791" | "5657760" | "5752829" | "Re31887").PN. OR ("6264666").URPN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2015/07/22 04:38 AM
L29	38	("2608032" | "2921585" | "3574239" | "3715838" | "4375740" | "4482322" | "4560373" | "4646480" | "4671867" | "4676749" | "4757814" | "4765099" | "5037431" | "5037432" | "5100412" | "5207234" | "5309683" | "5460604" | "5547376" | "5765759" | "5810587" | "5810842" | "6039745").PN. OR ("6277128").URPN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2015/07/22 04:39 AM
L30	14	("3815286" | "5037431" | "6183148" | "6193589" | "6235039" | "6238275" | "6322568").PN. OR ("6503256").URPN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2015/07/22 04:41 AM
L31	59	("1772545" | "2109259"	(US-PGPUB; USPAT;	OR	OFF	OFF	2015/07/22

		| "2453080" | "2547823" | "2618410" | "2711268" | "2962193" | "3217887" | "3647118").PN. OR ("3930598").URPN.	USOCR)				04:44 AM
L32	82	("0882532" | "1882040" | "1898652" | "2228676" | "2266931" | "2338339" | "2655146" | "2701559" | "2712823" | "2867214" | "2881763" | "2921585" | "3236231" | "3736921" | "3818904" | "3841322" | "3841323" | "3964212" | "4003373" | "4241499" | "4378804" | "4560373" | "4572187" | "4646480" | "4836192" | "4957747" | "5012797" | "5037431" | "5037432" | "5100412" | "5207234" | "5377701" | "5699810" | "5800440" | "5810842" | "5954730" | "5971999" | "6039745" | "6042552" | "6080165" | "6120512" | "6139554" | "6149634" | "6196982" | "6241739" | "6283078" | "6299620" | "6319211" | "6500183" | "6511486").PN. OR ("6695853").URPN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2015/07/22 04:46 AM
L33	107	("2608032" | "2921585" | "3085573" | "3574239" | "3715838" | "4560373" | "4646480" | "4676749" | "4757814").PN. OR ("5037432").URPN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2015/07/22 04:53 AM
L34	33	("20030093089" | "2701559" | "2712823" | "2867214" | "2881763" | "2921585" | "3964312" | "4378804" | "5012797" | "5037431" | "5037432" | "5100412" | "5800446" | "5971999" | "6039745" | "6241739" | "6277128" | "6299620" | "6432114" | "6500183" | "6582442" | "6592595" | "6629983" | "6695853" | "6911031" | "7070488").PN. OR ("7651508").URPN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2015/07/22 04:55 AM
L35	38	("4183470" | "5186625" | "5240842" | "5350299" | "5362494" | "5441174" | "5547376" | "5591184"	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2015/07/22 08:45 AM

		| "5634791" | "5657760" | "5752829" | "Re31887").PN. OR ("6264666").URPN.					
L36	6	(manifold same container same (antimicrobial disenfect$4))	(US-PGPUB; USPAT; EPO; JPO)	OR	OFF	OFF	2015/07/22 10:29 AM
L37	140	(manifold same container same (antimicrobial disenfect$4 surfactant sanitiz$5))	(US-PGPUB; USPAT; EPO; JPO)	OR	OFF	OFF	2015/07/22 10:32 AM
L38	378	(manifold with (clean$4 sanitiz$4) with container)	(US-PGPUB; USPAT; EPO; JPO)	OR	OFF	OFF	2015/07/23 02:44 AM
L39	12	(manifold with (clean$4 sanitiz$4) with container) and (abrasion or microabrasion)	(US-PGPUB; USPAT; EPO; JPO)	OR	OFF	OFF	2015/07/23 02:45 AM
L40	17	("2894732" | "3378234" | "3468637").PN. OR ("3865352").URPN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2015/07/23 03:24 AM
L41	33	("20030093089" | "2701559" | "2712823" | "2867214" | "2881763" | "2921585" | "3964312" | "4378804" | "5012797" | "5037431" | "5037432" | "5100412" | "5800446" | "5971999" | "6039745" | "6241739" | "6277128" | "6299620" | "6432114" | "6500183" | "6582442" | "6592595" | "6629983" | "6695853" | "6911031" | "7070488").PN. OR ("7651508").URPN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2015/07/23 04:06 AM
L42	15	("20010023351" | "20030093089" | "20060116674" | "20070156124" | "6250996" | "7232444" | "7651508" | "D286920" | "D286921" | "D321340" | "D326920" | "D489816" | "D548326").PN. OR ("D627876").URPN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2015/07/23 04:12 AM
L43	15	("5037432" | "5971999").PN. OR ("6250996").URPN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2015/07/23 04:13 AM
L44	8	("20010023351" | "20030093089" |	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2015/07/23 04:14 AM

		"20030212415" | "6250996" | "D450842").PN. OR ("D503979").URPN.					
L45	16	("20010023351" | "20030093089" | "20070156124" | "4653474" | "6250996" | "7232444" | "D192841" | "D224070" | "D249550" | "D326920" | "D475463" | "D489816" | "D627876").PN. OR ("D682414").URPN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2015/07/23 04:15 AM
L46	47	("7083580"|"7087063"|"7094252"|"7115275"|"7135011"|"7153311"|"7197359"|"7198623"|"7241208"|"7276051"|"7314326"|"7316657"|"7318828"|"7320691"|"7352801"|"7354423"|"7364565"|"7384405"|"7427273"|"7458944"|"7476205"|"7477938"|"7482314"|"7489989"|"7507067"|"7579900"|"7597901"|"7658742"|"7678120"|"7744582"|"7789886"|"7837695"|"7901373"|"7951156"|"8025669"|"8048089"|"8066716"|"8088085"|"8128638"|"8221437"|"8236008"|"8277287"|"8337513"|"8343116"|"8814836"|"RE37796"|"RE42960").PN.	(US-PGPUB; USPAT)	OR	OFF	OFF	2016/02/23 07:32 AM
L47	3	("20080154161"|"20080208146"|"20160038183").PN.	(US-PGPUB; USPAT)	OR	OFF	OFF	2016/08/17 04:17 AM
L48	5577	A61B17/54,545.cpc. or A61B19/0248.cpc. or A61B2019/025.cpc. or A61B2017/00199.cpc. or A61B2017/00017.cpc. or A61B2217/005,007.cpc.	(US-PGPUB; USPAT)	OR	OFF	OFF	2016/08/17 04:39 AM
L49	442	L48 and (manifold)	(US-PGPUB; USPAT)	OR	OFF	OFF	2016/08/17 04:39 AM
L50	250	L48 and (manifold) and liquid	(US-PGPUB; USPAT)	OR	OFF	OFF	2016/08/17 04:42 AM
L51	11	("5037431" | "5037432" | "5100412" | "5810842").PN. OR ("6562050").URPN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2016/08/17 04:45 AM

L52	40	("4183470" | "5186625" | "5240842" | "5350299" | "5362494" | "5441174" | "5547376" | "5591184" | "5634791" | "5657760" | "5752829" | "Re31887").PN. OR ("6264666").URPN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2016/08/17 05:14 AM
L53	83	("0882532" | "1882040" | "1898652" | "2228676" | "2266931" | "2338339" | "2655146" | "2701559" | "2712823" | "2867214" | "2881763" | "2921585" | "3236231" | "3736921" | "3818904" | "3841322" | "3841323" | "3964212" | "4003373" | "4241499" | "4378804" | "4560373" | "4572187" | "4646480" | "4836192" | "4957747" | "5012797" | "5037431" | "5037432" | "5100412" | "5207234" | "5377701" | "5699810" | "5800440" | "5810842" | "5954730" | "5971999" | "6039745" | "6042552" | "6080165" | "6120512" | "6139554" | "6149634" | "6196982" | "6241739" | "6283078" | "6299620" | "6319211" | "6500183" | "6511486").PN. OR ("6695853").URPN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2016/08/17 05:15 AM
L54	13	("20010023351" | "20020133176" | "20020169461" | "20020183702" | "20030097139" | "20050277950" | "20060086634" | "20060129140" | "20060161178" | "20070156124" | "20070265586" | "20100030132" | "6846218").PN. OR ("8986323").URPN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2016/08/17 05:19 AM
L55	7	("20030208159"|"6322568"|"8236008"|"20020151908"|"20090125023"|"20110009882"|"20120136374").PN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2016/08/17 05:55 AM
L56	879	microdermabrasion	(US-PGPUB; USPAT)	OR	OFF	OFF	2016/08/17 06:14 AM

L57	0	14/698,67.	(US-PGPUB; USPAT; EPO; JPO)	OR	OFF	OFF	2016/08/17 08:22 AM
L58	1	14/698,673	(US-PGPUB; USPAT; EPO; JPO)	OR	OFF	OFF	2016/08/17 08:22 AM
L59	406	A61B17/50.cpc.	(US-PGPUB; USPAT)	OR	OFF	OFF	2016/08/17 08:25 AM
L60	1002	A61M35/003.cpc.	(US-PGPUB; USPAT)	OR	OFF	OFF	2016/08/17 09:03 AM
L61	453	A61B2017/00761.cpc.	(US-PGPUB; USPAT)	OR	OFF	OFF	2016/08/17 09:04 AM
L62	1533	A61N5/0616.cpc.	(US-PGPUB; USPAT)	OR	OFF	OFF	2016/08/17 09:05 AM
L63	952	A61B2017/320004.cpc.	(US-PGPUB; USPAT)	OR	OFF	OFF	2016/08/17 09:05 AM
L64	641	A61B50/10.cpc.	(US-PGPUB; USPAT; EPO; JPO)	OR	OFF	OFF	2016/08/18 07:47 AM
L65	16	A61B50/10.cpc. and (microdermabra$5 or abra$5)	(US-PGPUB; USPAT; EPO; JPO)	OR	OFF	OFF	2016/08/18 08:00 AM
L66	622	A61B50/13.cpc.	(US-PGPUB; USPAT; EPO; JPO)	OR	OFF	OFF	2016/08/18 08:02 AM
L67	252	L66 not L64	(US-PGPUB; USPAT; EPO; JPO)	OR	OFF	OFF	2016/08/18 08:02 AM
L68	17	11/392,348	(US-PGPUB; USPAT)	OR	OFF	OFF	2016/08/18 08:12 AM
L77	400	A61B17/3205.cpc.	(US-PGPUB; USPAT)	OR	OFF	OFF	2016/08/18 09:19 AM
L78	4	(skin AND console AND input$4 AND hand$7 AND fluid AND manifold AND source).clm.	(US-PGPUB; USPAT; USOCR; FIT (CN, FR, WO); FPRS; EPO)	OR	ON	ON	2021/02/27 08:40 PM
L79	89	(console WITH input$4) AND skin AND hand$7 AND (manifold WITH fluid)	(US-PGPUB; USPAT; USOCR; FIT (CN, FR, WO); FPRS; EPO)	OR	ON	ON	2021/02/27 08:45 PM
L80	1	09/271,012	(US-PGPUB; USPAT; USOCR; FIT (CN, FR, WO); FPRS; EPO)	OR	ON	ON	2021/02/27 08:49 PM
L81	59	("Re31887" | "4183470" | "5186625" | "5240842" | "5350299" | "5362494" | "5441174" | "5547376" | "5591184" | "5634791" | "5657760" | "5752829").pn. OR ("6264666").urpn. AND (PGPB | USPT | USOC).dbnm.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/03/01 01:18 PM
L82	58	("2608032" | "2921585" | "3574239" | "3715838" | "4375740" | "4482322" | "4560373" | "4646480"	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/03/01 01:49 PM

		| "4671867" | "4676749" | "4757814" | "4765099" | "5037431" | "5037432" | "5100412" | "5207234" | "5309683" | "5460604" | "5547376" | "5765759" | "5810587" | "5810842" | "6039745").pn. OR ("6277128").urpn. AND (PGPB | USPT | USOC).dbnm.					
L83	56	(console SAME (handle handpiece)) AND (dermabrasion skin) AND (manifold SAME fluid SAME console)	(US-PGPUB; USPAT; USOCR; FIT (CN, FR, WO); FPRS; EPO)	OR	ON	ON	2021/03/01 01:53 PM
L84	116	("6024733"|"6139553"|"20070088371"|"5800446"|"5810842"|"6039745"|"6042552"|"6183483"|"6238275"|"6241739"|"6423078"|"6471712"|"6527783"|"6673082"|"6869611"|"3574239"|"5100412"|"6695853"|"20020128663"|"20090192442"|"20100049177"|"3964212"|"4378804"|"6090085"|"6942649"|"7789886"|"4182329"|"6299620"|"6277128"|"20030060834"|"20040127914"|"20070208353"|"20090177171"|"20090222023"|"5122153"|"5882201"|"7318828"|"20060200172"|"6629983"|"2712823"|"20020107527"|"20110054490"|"4121388"|"4706676"|"4957747"|"5037432"|"5674235"|"6592595"|"6641591"|"6926681"|"7678120"|"2921585"|"20030212415"|"6019749"|"2608032"|"20050283176"|"20070005078"|"20100045427"|"4203431"|"4676749"|"5873881"|"6283978"|"6685853"|"7087063"|"7153311"|"7482314"|"7837695"|"20060200173"|"3476112"|"2867214"|"2701559"|"20060253125"|"3715838"|"4155721"|"4216233"|"4560373"|"4646482"|"4757814"|"5012797"|"50	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/03/09 05:55 PM

		35089"|"5037431"|"5207234"|"5222956"|"6080166"|"6306119"|"6387103"|"7354423"|"7658742"|"4900316"|"6139554"|"20030097139"|"4917086"|"5759185"|"3085573"|"2881763"|"3214869"|"4646480"|"4754756"|"5612797"|"5971999"|"6080165"|"6136008"|"6149634"|"6162232"|"6500183"|"6582442"|"6911031").PN.					
L85	58	("2608032" | "2921585" | "3574239" | "3715838" | "4375740" | "4482322" | "4560373" | "4646480" | "4671867" | "4676749" | "4757814" | "4765099" | "5037431" | "5037432" | "5100412" | "5207234" | "5309683" | "5460604" | "5547376" | "5765759" | "5810587" | "5810842" | "6039745").pn. OR ("6277128").urpn. AND (PGPB | USPT | USOC).dbnm.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/03/09 06:01 PM
L86	4	(console AND (skin dermis derma$7) AND input AND (handle handpiece) AND (fluid water) AND manifold AND source).clm.	(US-PGPUB; USPAT; USOCR; FIT (CN, FR, WO); FPRS; EPO)	OR	ON	ON	2021/03/09 06:10 PM
L87	368	("2608032" | "2631583" | "2701559" | "2712823" | "2867214" | "2881763" | "2921585" | "3085573" | "3214869" | "3476112" | "3574239" | "3715838" | "3865352" | "3948265" | "3964212" | "3977084" | "4121388" | "4155721" | "4170821" | "4182329" | "4203431" | "4216233" | "4299219" | "4378804" | "4560373" | "4646480" | "4646482" | "4655743" | "4676749" | "4706676" | "4754756" | "4757814" | "4764362" | "4795421" | "4875287" | "4886078" | "4887994" | "4900316" | "4917086" | "4925450" | "4957747" | "5006004" | "5006339" | "5012797"	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/03/09 06:10 PM

		| "5035089" | "5037431" | "5037432" | "5100412" | "5100424" | "5119839" | "5122153" | "5207234" | "5222956" | "5242433" | "5254109" | "5368581" | "5391151" | "5417674" | "5419772" | "5460620" | "5470323" | "5484427" | "5562642" | "5611687" | "5674235" | "5676643" | "5676648" | "5683971" | "5697920" | "5707383" | "5713785" | "5735833" | "5759185" | "5779519" | "5800446" | "5807353" | "5810842" | "5813416" | "5817050" | "5846215" | "5848998" | "5861142" | "5873881" | "5879323" | "5882201" | "5885260" | "5908401" | "5919152" | "5954730" | "5971999" | "5980555" | "6019749" | "6024733" | "6027402" | "6039745" | "6042552" | "6080165" | "6080166" | "6090085" | "6120512" | "6129701" | "6136008" | "6139553" | "6139554" | "6142155" | "6149634" | "6159226" | "6162218" | "6162232" | "6183451" | "6183483" | "6193589" | "6231593" | "6235039" | "6238275" | "6241739" | "6264666" | "6277128" | "6283978" | "6299620" | "6306119" | "6306147" | "6322568" | "6368333" | "6387103" | "6409736" | "6410599" | "RE37796" | "6414032" | "6420431" | "6423078" | "6423750" | "6432113" | "6432114" | "6471712" | "6477410" | "6482212" | "6488646" | "6494856" | "6500183" | "6503256" | "6511486" | "6514262" | "6527783" | "6535761" | "6540757" | "6562013" | "6562050" | "6564093" | "6565535" | "6582442" | "6589218" | "6592595" | "6629983" | "6641591" | "6645184" | "6652888" | "6673081" | "6673082"					

		| "6685853" | "6687537" | "6695853" | "6735470" | "6743211" | "6743215" | "6764493" | "6869611" | "6905487" | "6911031" | "6924649" | "6926681" | "6942649" | "7001355" | "7004933" | "7044938" | "7052503" | "7069073" | "7070488" | "7083580" | "7087063" | "7094252" | "7115275" | "7135011" | "7153311" | "7197359" | "7198623" | "7232444" | "7241208" | "7276051" | "7314326" | "7316657" | "7318828" | "7320691" | "7320801" | "7354423" | "7364565" | "7384405" | "7427273" | "7458944" | "7476205" | "7477938" | "7482314" | "7489989" | "7507228" | "7582067" | "7597900" | "7597901" | "7658742" | "7678120" | "7744582" | "7789886" | "7837695" | "7901373" | "7951156" | "8025669" | "RE42960" | "8048089" | "8066716" | "8088085" | "8128638" | "8221437" | "8236008" | "8277287" | "8337513" | "8343116" | "8814836" | "9056193" | "20010023351" | "20010037118" | "20010049511" | "20020016601" | "20020041891" | "20020058952" | "20020107527" | "20020133110" | "20020133176" | "20020151826" | "20020151908" | "20020188261" | "20030012415" | "20030018252" | "20030060834" | "20030093040" | "20030093089" | "20030097139" | "20030167032" | "20030187462" | "20030208159" | "20030212127" | "20030212415" |				

		"20040010222" | "20040010269" | "20040087972" | "20040092895" | "20040092959" | "20040097967" | "20040122447" | "20040143274" | "20040162565" | "20040166172" | "20040219179" | "20040236291" | "20040243149" | "20040254587" | "20040267285" | "20050037034" | "20050038448" | "20050059940" | "20050084509" | "20050148958" | "20050203111" | "20050209611" | "20050283176" | "20060002960" | "20060116674" | "20060161178" | "20060189964" | "20060191562" | "20060200099" | "20060200172" | "20060200173" | "20060212029" | "20060253125" | "20060264893" | "20070005078" | "20070043382" | "20070065515" | "20070088371" | "20070123808" | "20070154502" | "20070156124" | "20070178121" | "20070198031" | "20070208353" | "20070239173" | "20080027328" | "20080091179" | "20080103563" | "20080119781" | "20080132914" | "20080139974" | "20080154161" | "20080193493" | "20080200861" | "20080208146" | "20080214987" | "20080215068" | "20080221548" |				

		"20080243039" | "20080287864" | "20080300529" | "20080300552" | "20090048557" | "20090053390" | "20090062815" | "20090099091" | "20090099093" | "20090124985" | "20090138026" | "20090177171" | "20090192442" | "20090222023" | "20100045427" | "20100049177" | "20100049210" | "20100217357" | "20110054490" | "20110066162" | "20110082415" | "20120022435" | "20120041338" | "20120136374" | "20130018317" | "20130066336" | "20130096577" | "20130102978" | "20130144280" | "20130158547" | "20140343481" | "20140343574" | "20150032047" | "20150230824" | "20150230825" | "20150231379" | "20150265822" | "20150290442" | "20160038183").pn. OR ("9550052").urpn. AND (PGPB | USPT | USOC).dbnm.					
L88	28	("10485983" "8518001" "9084587" "10220122" "7384405" "6283978" "6471712" "9005173" "20170245876" "10898227" "20180289936" "20130158547" "8433400" "7318828" "20040077977" "20090254155").pn.	(US-PGPUB; USPAT; USOCR; FIT (CN, FR, WO); FPRS; EPO)	OR	ON	ON	2021/03/09 09:53 PM
L89	16	("10485983" "8518001" "9084587" "10220122" "7384405" "6283978" "6471712" "9005173"	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/03/09 09:53 PM

		"20170245876" "10898227" "20180289936" "20130158547" "8433400" "7318828" "20040077977" "20090254155").pn.					
L90	682711	A61B17/$.cpc. OR A61B2017/$.cpc.	(US-PGPUB; USPAT; USOCR; FIT (CN, FR, WO); FPRS; EPO)	OR	ON	ON	2021/03/09 11:37 PM
L91	286	L90 AND (manifold WITH (releasab$4 detach$4 remov$4) WITH (container bottle source canister))	(US-PGPUB; USPAT; USOCR; FIT (CN, FR, WO); FPRS; EPO)	OR	ON	ON	2021/03/09 11:38 PM
L92	30	12/340,595	(US-PGPUB; USPAT; USOCR; FIT (CN, FR, WO); FPRS; EPO)	OR	ON	ON	2021/03/09 11:43 PM
L93	59	("Re31887" | "4183470" | "5186625" | "5240842" | "5350299" | "5362494" | "5441174" | "5547376" | "5591184" | "5634791" | "5657760" | "5752829").pn. OR ("6264666").urpn. AND (PGPB | USPT | USOC).dbnm.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/03/13 07:39 PM
L94	33	("2661537" | "2696049" | "3344524" | "3971375" | "4180812" | "4276023" | "4492575" | "4494932" | "4635897" | "4708534" | "4767404" | "4826431" | "4893440" | "4941298" | "5109637").pn. OR ("5752829").urpn. AND (PGPB | USPT | USOC).dbnm.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/03/13 07:54 PM
L95	63	("1772545" | "2109259" | "2453080" | "2547823" | "2618410" | "2711268" | "2962193" | "3217887" | "3647118").pn. OR ("3930598").urpn. AND (PGPB | USPT | USOC).dbnm.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/03/13 08:19 PM
L96	4	("20010049511" "20030093089" "20030018252" "3865352").pn.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/04/19 04:59 PM
L97	890	("10076646"|"10130390"|"10188193"|"10206743"|"10220122"|"10314378"|"10334933"|"10369	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, CA, CH, CN, DD, DE, EA, EP, ES, FR,	OR	ON	ON	2021/09/02 02:46 PM

		073"|"10456321"|"1045 6567"|"10485983"|"105 24835"|"10667985"|"10 737080"|"10758261"|"1 0918190"|"10946191"|" 10993743"|"11020577"| "20040138680"|"20070 139630"|"20110295273 "|"20130144207"|"2014 0079686"|"2014023400 4"|"20140343481"|"201 40378887"|"201600181 00"|"20160038183"|"20 160235257"|"20160250 415"|"20170043150"|"2 0180140329"|"2018018 5675"|"20190070069"|" 20190151637"|"202000 09007"|"20200179220"| "20200289161"|"20200 316270"|"20200338586 "|"20200390468"|"2021 0085367"|"2021014548 0"|"20210145481"|"202 10154453"|"202101544 54"|"20210154455"|"20 210177463"|"3560100"| "4342522"|"4500222"|"6 508813"|"6537242"|"66 26445"|"6629927"|"693 8805"|"7051907"|"7166 086"|"7316671"|"74225 67"|"7857806"|"823129 2"|"8475507"|"8573874" |"8579916"|"8721662"|" 8858570"|"8939669"|"8 945104"|"9050133"|"90 72533"|"9517085"|"970 0684"|"9731053"|"9775 645"|"9833261"|"98614 42"|"9918727"|"994955 2"|"9950147"|"9955769" |"D486915"|"D496101"|" D522360"|"D553005"|" D584151"|"D664254"|" D678783"|"D709617"|" D722172"|"D743558"|" D787054"|"D811381"|" D822845"|"D825763"|" D836781"|"D851759"|" D852962"|"D861913"|" D867587"|"D868981"|" D893024"|"10035007"|" 10172644"|"10179229"| "10238812"|"10251675" |"10357641"|"10357642 "|"10556096"|"1055609 7"|"1651585"|"2001002	GB, JP, KR, OA, RU, SU, WO); EPO)				

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		8"|"4887994"|"4900316" |"4917086"|"4925450"|" 4940350"|"4957747"|"5 006004"|"5006339"|"50 12797"|"5035089"|"503 7431"|"5037432"|"5054 339"|"5100412"|"51004 24"|"5119839"|"512215 3"|"5171215"|"5192269" |"5207234"|"5222956"|" 5242433"|"5254109"|"5 368581"|"5387215"|"53 91151"|"5417674"|"541 9772"|"5441490"|"5460 620"|"5470323"|"54844 27"|"5490736"|"551204 4"|"5562642"|"5562643" |"5611687"|"5612797"|" 5674235"|"5676643"|"5 676648"|"5683971"|"56 97920"|"5707383"|"571 3785"|"5735833"|"5759 185"|"5762640"|"57795 19"|"5800446"|"580735 3"|"5810842"|"5813416" |"5817050"|"5834510"|" 5846215"|"5848998"|"5 857995"|"5861142"|"58 73881"|"5879323"|"588 2201"|"5885260"|"5908 401"|"5919152"|"59547 30"|"5971999"|"598055 5"|"6019749"|"6023639" |"6024733"|"6027402"|" 6039745"|"6042552"|"6 080165"|"6080166"|"60 90085"|"6120512"|"612 9701"|"6136008"|"6139 553"|"6139554"|"61421 55"|"6149634"|"615922 6"|"6162218"|"6162232" |"6165059"|"6183451"|" 6183483"|"6193589"|"6 196982"|"6231593"|"62 35039"|"6238275"|"624 1739"|"6264666"|"6277 128"|"6283978"|"62996 20"|"6306119"|"630614 7"|"6322548"|"6322568" |"6332886"|"6368333"|" 6387103"|"6401289"|"6 409736"|"6410599"|"64 14032"|"6420431"|"642 3078"|"6423750"|"6432 113"|"6432114"|"64717 12"|"6477410"|"648221 2"|"6488646"|"6494856" |"6500183"|"6503256"|"					

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		10993743"|"11020577"|"20040138680"|"20070139630"|"20110295273"|"20130144207"|"20140079686"|"20140234004"|"20140343481"|"20140378887"|"20160018100"|"20160038183"|"20160235257"|"20160250415"|"20170043150"|"20180140329"|"20180185675"|"20190070069"|"20190151637"|"20200009007"|"20200179220"|"20200289161"|"20200316270"|"20200338586"|"20200390468"|"20210085367"|"2021014548 0"|"20210145481"|"20210154453"|"20210154454"|"20210154455"|"20210177463"|"3560100"|"4342522"|"4500222"|"6508813"|"6537242"|"6626445"|"6629927"|"6938805"|"7051907"|"7166086"|"7316671"|"7422567"|"7857806"|"8231292"|"8475507"|"8573874"|"8579916"|"8721662"|"8858570"|"8939669"|"8945104"|"9050133"|"9072533"|"9517085"|"9700684"|"9731053"|"9775645"|"9833261"|"9861442"|"9918727"|"9949552"|"9950147"|"9955769"|"D486915"|"D496101"|"D522360"|"D553005"|"D584151"|"D664254"|"D678783"|"D709617"|"D722172"|"D743558"|"D787054"|"D811381"|"D822845"|"D825763"|"D836781"|"D851759"|"D852962"|"D861913"|"D867587"|"D868981"|"D893024"|"10035007"|"10172644"|"10179229"|"10238812"|"10251675"|"10357641"|"10357642"|"10556096"|"10556097"|"1651585"|"20010023351"|"20010037118"|"20010049511"|"20020016601"|"20020041891"|"20020058952"|"20020107527"|"20020128663					

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		7431"|"5037432"|"5054 339"|"5100412"|"51004 24"|"5119839"|"512215 3"|"5171215"|"5192269" |"5207234"|"5222956"|" 5242433"|"5254109"|"5 368581"|"5387215"|"53 91151"|"5417674"|"541 9772"|"5441490"|"5460 620"|"5470323"|"54844 27"|"5490736"|"551204 4"|"5562642"|"5562643" |"5611687"|"5612797"|" 5674235"|"5676643"|"5 676648"|"5683971"|"56 97920"|"5707383"|"571 3785"|"5735833"|"5759 185"|"5762640"|"57795 19"|"5800446"|"580735 3"|"5810842"|"5813416" |"5817050"|"5834510"|" 5846215"|"5848998"|"5 857995"|"5861142"|"58 73881"|"5879323"|"588 2201"|"5885260"|"5908 401"|"5919152"|"59547 30"|"5971999"|"598055 5"|"6019749"|"6023639" |"6024733"|"6027402"|" 6039745"|"6042552"|"6 080165"|"6080166"|"60 90085"|"6120512"|"612 9701"|"6136008"|"6139 553"|"6139554"|"61421 55"|"6149634"|"615922 6"|"6162218"|"6162232" |"6165059"|"6183451"|" 6183483"|"6193589"|"6 196982"|"6231593"|"62 35039"|"6238275"|"624 1739"|"6264666"|"6277 128"|"6283978"|"62996 20"|"6306119"|"630614 7"|"6322548"|"6322568" |"6332886"|"6368333"|" 6387103"|"6401289"|"6 409736"|"6410599"|"64 14032"|"6420431"|"642 3078"|"6423750"|"6432 113"|"6432114"|"64717 12"|"6477410"|"648221 2"|"6488646"|"6494856" |"6500183"|"6503256"|" 6511486"|"6514262"|"6 527783"|"6535761"|"65 40757"|"6562013"|"656 2050"|"6564093"|"6565 535"|"6582442"|"65892					

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L99	11	((US-3574239-A OR US-6277128-B1 OR US-6629983-B1 OR US-7232444-B2 OR US-7070488-B2 OR US-8048089-B2).did. AND USPT.dbnm.) OR ((US-20010049511-A1 OR US-20040243149-A1 OR US-20060161178-A1 OR US-20040267285-A1 OR US-20070156124-A1).did. AND	(USPAT; US-PGPUB; FPRS; USOCR; IBM_TDB; EPO; JPO; DERWENT; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI,	OR	ON	ON	2021/09/07 01:25 AM

		PGPB.dbnm.)	SK, TH, TN, TR, TW, UA, VN))				
L100	11	((US-3574239-A OR US-6277128-B1 OR US-6629983-B1 OR US-7232444-B2 OR US-7070488-B2 OR US-8048089-B2).did. AND USPT.dbnm.) OR ((US-20010049511-A1 OR US-20040243149-A1 OR US-20060161178-A1 OR US-20040267285-A1 OR US-20070156124-A1).did. AND PGPB.dbnm.)	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, CA, CH, CN, DD, DE, EA, EP, ES, FR, GB, JP, KR, OA, RU, SU, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/09/07 01:25 AM
L101	41	("8986323" "7651508" "7128729" "7070488" "6942649" "6926681" "6695853" "6629983" "6562050" "6527783" "6503256" "6277128" "6250996" "6238275" "6162232" "6080165" "5752829" "5037432" "5037431" "3930598" "3865352" "3574239" "20150272623" "20110021905" "20100049210" "20090163860" "20090138026" "20070156124" "20060253125" "20060161178" "20060116674" "20050209611" "20040267285" "20040243149" "2004097967" "20030097139" "20030093089" "20030018252" "20020198496" "20020151908" "20010049511" "10238812").pn.	(US-PGPUB; USPAT)	OR	ON	ON	2021/09/07 01:33 AM
L102	11	L101 AND computer	(US-PGPUB; USPAT)	OR	ON	ON	2021/09/07 01:34 AM
L103	7	L101 AND (touch ADJ screen)	(US-PGPUB; USPAT)	OR	ON	ON	2021/09/08 06:36 AM
L104	3	("20080200863"|"6635035").PN.	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU,	OR	ON	ON	2021/12/22 06:21 PM

			CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); EPO)				
L105	10	14/698,673	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); EPO)	OR	ON	ON	2022/03/22 01:10 PM
L106	8	("11202657"|"11213321"|"11224728"|"20060278661"|"20130261534"|"20210145479"|"20210353922").PN.	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); EPO)	OR	ON	ON	2022/03/22 01:49 PM
L107	111	(roger near2 ignon).in.	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); EPO)	OR	ON	ON	2022/03/22 01:50 PM
L108	22	L107 AND (manifold).clm.	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU,	OR	ON	ON	2022/03/22 01:50 PM

			CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); EPO)				
L109	541	("1651585" | "2608032" | "2631583" | "2701559" | "2712823" | "2867214" | "2881763" | "2921585" | "3037509" | "3085573" | "3214869" | "3468079" | "3476112" | "3481677" | "3505993" | "3560100" | "3574239" | "3715838" | "3865352" | "3866264" | "3930598" | "3948265" | "3964212" | "3968789" | "3977084" | "4121388" | "4155721" | "4170821" | "4182329" | "4203431" | "4216233" | "4225254" | "4289158" | "4299219" | "4342522" | "4378804" | "4500222" | "4560373" | "4646480" | "4646482" | "4655743" | "4676749" | "4706676" | "4718467" | "4754756" | "4757814" | "4764362" | "4795421" | "4811734" | "4836192" | "4875287" | "4886078" | "4887994" | "4900316" | "4917086" | "4925450" | "4940350" | "4957747" | "5006004" | "5006339" | "5012797" | "5035089" | "5037431" | "5037432" | "5054339" | "5100412" | "5100424" | "5119839" | "5122153" | "5171215" | "5192269" | "5207234" | "5222956" | "5242433" | "5254109" | "5368581" | "5387215" | "5391151" | "5417674" | "5419772" | "5441490" | "5460620" | "5470323" | "5484427" | "5490736" | "5512044" | "5562642" | "5562643" | "5611687" | "5612797" | "5674235" | "5676643" | "5676648" | "5683971"	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/03/22 01:54 PM

		| "5697920" | "5707383" | "5713785" | "5735833" | "5759185" | "5762640" | "5779519" | "5800446" | "5807353" | "5810842" | "5813416" | "5817050" | "5834510" | "5846215" | "5848998" | "5857995" | "5861142" | "5873881" | "5879323" | "5882201" | "5885260" | "5908401" | "5919152" | "5954730" | "5971999" | "5980555" | "6019749" | "6023639" | "6024733" | "6027402" | "6039745" | "6042552" | "6080165" | "6080166" | "6090085" | "6120512" | "6129701" | "6136008" | "6139553" | "6139554" | "6142155" | "6149634" | "6159226" | "6162218" | "6162232" | "6165059" | "6183451" | "6183483" | "6193589" | "6196982" | "6231593" | "6235039" | "6238275" | "6241739" | "6264666" | "6277128" | "6283978" | "6299620" | "6306119" | "6306147" | "6322548" | "6322568" | "6332886" | "6368333" | "6387103" | "6401289" | "6409736" | "6410599" | "RE37796" | "6414032" | "6420431" | "6423078" | "6423750" | "6432113" | "6432114" | "6471712" | "6477410" | "6482212" | "6488646" | "6494856" | "6500183" | "6503256" | "6508813" | "6511486" | "6514262" | "6527783" | "6535761" | "6537242" | "6540757" | "6562013" | "6562050" | "6564093" | "6565535" | "6582442" | "6589218" | "6592595" | "6626445" | "6629927" | "6629983" | "6641591" | "6645184" | "6652888" | "6666874" | "6673081" | "6673082" | "D486915" | "6685853" | "6687537" | "6695853" | "6735470" | "6743211" | "6743215" | "6764493" | "D496101" | "6800083" |					

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		| "10130390" | "D836781" | "10172644" | "10179229" | "10188193" | "10206743" | "10220122" | "10238812" | "10251675" | "D851759" | "10314378" | "D852962" | "10357641" | "10357642" | "10334933" | "10369073" | "D861913" | "10456321" | "10456567" | "D867587" | "10485983" | "D868981" | "10524835" | "10556096" | "10556097" | "10667985" | "D893024" | "10737080" | "10758261" | "10918190" | "10946191" | "10993743" | "11020577" | "20010023351" | "20010037118" | "20010049511" | "20020016601" | "20020041891" | "20020058952" | "20020107527" | "20020128663" | "20020133110" | "20020133176" | "20020151826" | "20020151908" | "20020162863" | "20020188261" | "20030012415" | "20030018252" | "20030060834" | "20030093040" | "20030093089" | "20030097139" | "20030167032" | "20030187462" | "20030208159" | "20030212127" | "20030212415" | "20040010222" | "20040010269" | "20040015139" | "20040087972" | "20040092895" | "20040092959" | "20040097967" |					

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L110	86	L109 AND manifold	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/03/22 01:54 PM
L111	31	(skin AND manifold AND hand$7 AND (vacuum$4 suction$4 aspirat$4)).clm.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/03/22 03:43 PM

PE2E SEARCH - Search History (Interference)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	British Equivalents	Time Stamp
N69	0	(console and manifold and contain$4 and skin and liquid and (handpiece handle) and tip and (vacuum suction) and (conduit tube) and treat$4).clm.	(US-PGPUB; USPAT)	OR	OFF	OFF	2016/08/18 08:08 AM
N70	0	(console and manifold and skin and liquid and (handpiece handle) and tip and (vacuum suction) and (conduit tube) and treat$4).clm.	(US-PGPUB; USPAT)	OR	OFF	OFF	2016/08/18 08:09 AM
N71	0	(console and manifold and skin and liquid and (handpiece handle) and tip and (vacuum suction) and (conduit tube)).clm.	(US-PGPUB; USPAT)	OR	OFF	OFF	2016/08/18 08:09 AM
N72	2	(console and manifold and skin and (handpiece handle) and	(US-PGPUB; USPAT)	OR	OFF	OFF	2016/08/18 08:09 AM

		tip and (vacuum suction) and (conduit tube)).clm.					
N73	3	(manifold and skin and (handpiece handle) and tip and (vacuum suction) and (conduit tube)).clm.	(US-PGPUB; USPAT)	OR	OFF	OFF	2016/08/18 08:09 AM
N74	17	11/392,348	(US-PGPUB; USPAT)	OR	OFF	OFF	2016/08/18 08:12 AM
N75	38	(manifold and (handpiece handle) and tip and (vacuum suction) and (conduit tub$4)).clm.	(US-PGPUB; USPAT)	OR	OFF	OFF	2016/08/18 08:13 AM
N76	286	("20010023351" | "20010049511" | "20020016601" | "20020041891" | "20020058952" | "20020107527" | "20020133110" | "20020188261" | "20030012415" | "20030060834" | "20030093089" | "20030097139" | "20030187462" | "20030208159" | "20030212127" | "20030212415" | "20040087972" | "20040092895" | "20040097967" | "20040143274" | "20040166172" | "20040219179" | "20040236291" | "20040243149" | "20040267285" | "20050037034" | "20050038448" | "20050059940" | "20050084509" | "20050148958" | "20050203111" | "20050209611" | "20050283176" | "20060002960" | "20060200099" | "20060200172" | "20060200173" | "20060212029" | "20060253125" | "20060264893" | "20070005078" |	(US-PGPUB; USPAT)	OR	OFF	OFF	2016/08/18 08:16 AM

		"20070043382" | "20070065515" | "20070088371" | "20070114904" | "20070123808" | "20070154502" | "20070156124" | "20070178121" | "20070198031" | "20070208353" | "20070239173" | "20080027328" | "20080091179" | "20080119781" | "20080132914" | "20080139974" | "20080193493" | "20080200861" | "20080214987" | "20080215068" | "20080243039" | "20080287864" | "20080300529" | "20090048557" | "20090053390" | "20090099091" | "20090099093" | "20090124985" | "20090138026" | "20090177171" | "20090192442" | "20090222023" | "20100045427" | "20100049177" | "20100049210" | "20110054490" | "20110066162" | "20110082415" | "20120022435" | "20120136374" | "20130066336" | "20130096577" | "20130144280" | "20130158547" | "2608032" | "2701559" | "2712823" | "2867214" | "2881763" | "2921585" | "3085573" | "3214869" | "3476112" | "3574239" | "3715838").PN. OR ("3948265" | "3964212" | "3977084" | "4121388" | "4155721" | "4182329" | "4203431" | "4216233" | "4378804" | "4560373" | "4646480" | "4646482" | "4676749" | "4706676" | "4754756" | "4757814"					

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PTO/SB/08 Equivalent

INFORMATION DISCLOSURE STATEMENT BY APPLICANT	Application No.	16/517,268
	Filing Date	July 19, 2019
	First Named Inventor	Roger Ignon
	Art Unit	3771
(Multiple sheets used when necessary)	Examiner	Christian D. Knauss
SHEET 1 OF 1	Attorney Docket No.	EDGE.005C7

U.S. PATENT DOCUMENTS					
Examiner Initials	Cite No.	Document Number *Number - Kind Code (if known)* Example: 1,234,567 B1	Publication Date MM-DD-YYYY	Name of Patentee or Applicant	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear
	1	11,202,657	12-21-2021	Ignon et al.	
	2	11,213,321	01-04-2022	Ignon et al.	
	3	11,224,728	01-18-2022	Ignon et al.	
	4	2006/0278661	11-07-2019	Cooper et al.	
	5	2013/0261534	10-03-2013	Niezgoda et al.	
	6	2021/0145479	05-20-2021	Ignon et al.	
	7	2021/0353922	11-18-2021	Ignon et al.	

FOREIGN PATENT DOCUMENTS						
Examiner Initials	Cite No.	Foreign Patent Document *Country Code-Number-Kind Code* Example: JP 1234567 A1	Publication Date MM-DD-YYYY	Name of Patentee or Applicant	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear	**T[1]**

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	**T[1]**

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Examiner Signature	/CHRISTIAN D KNAUSS/	Date Considered	03/23/2022

***Examiner:** Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

T[1] - Place a check mark in this area when an English language Translation is attached.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /C.D.K/

INFORMATION DISCLOSURE STATEMENT

First Inventor: Roger Ignon	**Conf. No.:** 9432
App. No.: 16/517,268	**Filed:** July 19, 2019
Examiner: Christian D. Knauss	**Art Unit:** 3771
Title: DEVICES AND METHODS FOR TREATING SKIN	

Mail Stop RCE
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

References and Listing

Pursuant to 37 CFR 1.56, an Information Disclosure Statement listing references is provided herewith. Identification herein is not an admission that any of the references are prior art to the above captioned application.

No Disclaimers

To the extent that anything in the Information Disclosure Statement or the listed references could be construed as a disclaimer of any subject matter supported by the present application, Applicant hereby rescinds and retracts such disclaimer.

Related Patents and Applications of Assignee

Applicant wishes to draw the Examiner's attention to the following U.S. patents and patent applications of the present application's assignee.

Attorney Docket No.	App. No. (Pat. No., if appl.)	Filing Date	Title
EDGE.004A	09/648,025 (Pat. No. 6,641,591)	Aug. 25, 2000	INSTRUMENTS AND TECHNIQUES FOR CONTROLLED REMOVAL OF EPIDERMAL LAYERS
EDGE.004C1	10/699,747 (Pat. No. 7,789,886)	Nov. 3, 2003	INSTRUMENTS AND TECHNIQUES FOR CONTROLLED REMOVAL OF EPIDERMAL LAYERS
EDGE.004C1DV1	11/739,615 (Pat. No. 8,337,513)	Apr. 24, 2007	INSTRUMENTS AND TECHNIQUES FOR CONTROLLED REMOVAL OF EPIDERMAL LAYERS
EDGE.004C2	11/417,709 (Pat. No. 8,066,716)	May 3, 2006	INSTRUMENTS AND TECHNIQUES FOR CONTROLLED REMOVAL OF EPIDERMAL LAYERS
EDGE.004C3	11/417,396 (Pat. No. 7,678,120)	May 3, 2006	INSTRUMENTS AND TECHNIQUES FOR CONTROLLED REMOVAL OF EPIDERMAL LAYERS
EDGE.004C5	14/702,509 (Pat. No. 9,775,646)	May 1, 2015	DEVICES AND SYSTEMS FOR TREATING THE SKIN USING VACUUM
EDGE.004C6	14/702,486 (Pat. No. 9,468,464)	May 1, 2015	METHODS FOR TREATING THE SKIN USING VACUUM
EDGE.005A	11/392,348 (Pat. No. 8,048,089)	Mar. 29, 2006	APPARATUS AND METHODS FOR TREATING THE SKIN
EDGE.005C1	13/267,554 (Pat. No. 9,474,886)	Oct. 6, 2011	REMOVABLE TIPS FOR SKIN TREATMENT SYSTEMS

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /C.D.K/

Attorney Docket No.	App. No. (Pat. No., if appl.)	Filing Date	Title
EDGE.005C2	14/698,673 (Pat No. 9,550,052)	Apr. 28, 2015	CONSOLE SYSTEM FOR THE TREATMENT OF SKIN
EDGE.005C3	14/698,713 (Pat. No. 9,662,482)	Apr. 28, 2015	METHODS AND SYSTEMS FOR EXTRACTION OF MATERIALS FROM SKIN
EDGE.005C4	14/700,789 (Pat. No. 9,814,868)	Apr. 30, 2015	TIP WITH EMBEDDED MATERIALS FOR SKIN TREATMENT
EDGE.005C5	15/660,750 (Pat. No. 10/357,641)	Jul. 26, 2017	TIPS FOR SKIN TREATMENT DEVICE
EDGE.005C6	15/660,777 (Pat. No. 10/357,642)	Jul. 26, 2017	REMOVABLE TIPS FOR USE WITH SKIN TREATMENT SYSTEMS
EDGE.005C7	**16/517,268 (*present application*)**	**July 19, 2019**	**DEVICES AND METHODS FOR TREATING SKIN**
EDGE.005C8	17/165,820	Feb. 2, 2021	DEVICES AND METHODS FOR TREATING SKIN
EDGE.005C9	17/165,807	Feb. 2, 2021	DEVICES AND METHODS FOR TREATING SKIN
EDGE.006A	09/294,254 (Pat. No. 6,162,232)	Apr. 19, 1999	INSTRUMENTS AND TECHNIQUES FOR HIGH-VELOCITY FLUID ABRASION OF EPIDERMAL LAYERS WITH SKIN COOLING
EDGE.007A	09/475,480 (Pat. No. 6,299,620)	Dec. 30, 1999	INSTRUMENTS AND TECHNIQUES FOR INDUCING NEOCOLLAGENESIS IN SKIN TREATMENTS
EDGE.008A	09/475,479 (Pat. No. 6,387,103)	Dec. 30, 1999	INSTRUMENTS AND TECHNIQUES FOR INDUCING NEOCOLLAGENESIS IN SKIN TREATMENTS
EDGE.022A	11/370,200	Mar. 7, 2006	MICRODERMABRASION METHOD AND APPARATUS
EDGE.044A	12/362,353 (Pat. No. 9,056,193)	Jan. 29, 2009	APPARATUS AND METHOD FOR TREATING THE SKIN
EDGE.044C1	14/734,995 (Pat. No. 11,020,577)	Jun. 9, 2015	DEVICES AND SYSTEMS FOR TREATING SKIN SURFACES
EDGE.044C2	17/332,897	May 27, 2021	DEVICES, SYSTEMS, AND METHODS FOR TREATING THE SKIN
EDGE.044CP1	12/832,663 (Pat. No. 8,814,836)	Jul 8, 2010	DEVICES, SYSTEMS AND METHODS FOR TREATING THE SKIN USING TIME-RELEASE SUBSTANCES
EDGE.044P1C1	14/455,762 (Pat. No. 9,642,997)	Aug. 8, 2014	DEVICES FOR TREATING SKIN USING TREATMENT MATERIALS LOCATED ALONG A TIP
EDGE.044P1C2	15/588,102 (Pat. No. 10,556,097)	May 5, 2017	DEVICES FOR TREATING SKIN USING TREATMENT MATERIALS LOCATED ALONG A TIP
EDGE.044P1C3	16/784,850	Feb. 7, 2020	DEVICES AND METHODS FOR TREATING SKIN
EDGE.047A	12/346,582 (Pat. No. 8,343,116)	Dec. 30, 2008	APPARATUS AND METHOD FOR TREATING THE SKIN
EDGE.047C1	13/620,376 (Pat. No. 9,486,615)	Sep. 14, 2012	MICRODERMABRASION APPARATUS AND METHOD
EDGE.047C2	15/344,357 (Pat. No. 10,556,096)	Nov. 4, 2016	DEVICES AND METHODS FOR SKIN TREATMENT
EDGE.047C3	16/784,044	Feb. 6, 2020	DEVICES AND METHODS FOR SKIN TREATMENT
EDGE.050A	09/540,945 (Pat. No. 6,592,595)	Mar. 31, 2000	MICRODERMABRASION AND SUCTION MASSAGE APPARATUS AND METHOD
EDGE.050C1	09/698,409 (Pat. No. 6,527,783)	Oct. 27, 2000	MICRODERMABRASION AND SUCTION MASSAGE APPARATUS AND METHOD
EDGE.050DV1	10/177,173 (Pat. No. 6,673,082)	Jun. 20, 2002	MICRODERMABRASION HANDPIECE WITH SUPPLY AND RETURN LUMENS
EDGE.051A	10/315,478 (Pat. No. 6,942,649)	Dec. 10, 2002	MICRODERMABRASION FLUID APPLICATION SYSTEM AND METHOD

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /C.D.K/

Attorney Docket No.	App. No. (Pat. No., if appl.)	Filing Date	Title
EDGE.052A	09/699,220 (Pat. No. 6,629,983)	Oct. 27, 2000	APPARATUS AND METHOD FOR SKIN/SURFACE ABRASION
EDGE.065A	14/211,089 (Pat. No. 10,238,812)	Mar. 14, 2014	SKIN TREATMENT SYSTEMS AND METHODS USING NEEDLES
EDGE.065C1	16/363,310	Mar. 25, 2019	SKIN TREATMENT SYSTEMS AND METHODS USING NEEDLES
EDGE.077A	14/211,290 (Pat. No. 9,566,088)	Mar. 14, 2014	DEVICES, SYSTEMS AND METHODS FOR TREATING THE SKIN
EDGE.077C1	15/430,209 (Pat. No. 10,251,675)	Feb. 10, 2017	DEVICES, SYSTEMS AND METHODS FOR TREATING THE SKIN
EDGE.077C2	16/376,956	Apr. 5, 2019	DEVICES, SYSTEMS AND METHODS FOR TREATING THE SKIN
EDGE.077NP	14/774,641 (Pat. No. 10,172,644)	Sep. 10, 2015	DEVICES, SYSTEMS AND METHODS FOR TREATING THE SKIN
EDGE.077NPC1	16/241,572 (Pat. No. 10,993,743)	Jan. 7, 2019	DEVICES, SYSTEMS AND METHODS FOR TREATING THE SKIN
EDGE.077NPC2	17/163,128	Jan. 29, 2021	DEVICES, SYSTEMS AND METHODS FOR TREATING THE SKIN
EDGE.077NPC3	17/163,199	Jan. 29, 2021	DEVICES, SYSTEMS AND METHODS FOR TREATING THE SKIN
EDGE.077NPC4	17/163,237 (Pat. No. 11,202,657)	Jan. 29, 2021	DEVICES, SYSTEMS AND METHODS FOR TREATING THE SKIN
EDGE.077NPC5	17/163,240 (Pat. No. 11,213,321)	Jan. 29, 2021	DEVICES, SYSTEMS AND METHODS FOR TREATING THE SKIN
EDGE.090A	14/998,375 (Pat. No. 9,498,610)	Dec. 23, 2015	DEVICES AND METHODS FOR TREATING THE SKIN USING A ROLLERBALL OR A WICKING MEMBER
EDGE.090C1	15/354,754 (Pat. No. 10,035,007)	Nov. 17, 2016	DEVICES AND METHODS FOR TREATING THE SKIN
EDGE.090C2	16/040,397	July 19, 2018	DEVICES AND METHODS FOR TREATING THE SKIN
EDGE.090C3	17/164,580	Feb. 1, 2021	DEVICES AND METHODS FOR TREATING THE SKIN
EDGE.090P1	15/498,416 (Pat. No. 10,179,229)	Apr. 26, 2017	DEVICES AND METHODS FOR TREATING THE SKIN USING A POROUS MEMBER
EDGE.090P1C1	16/246,306 (Pat. No. 11,224,728)	Jan. 11, 2019	DEVICES AND METHODS FOR TREATING THE SKIN USING A POROUS MEMBER
EDGE.090P1C2	17/576,888	Jan. 14, 2022	DEVICES AND METHODS FOR TREATING THE SKIN
EDGE.091A	15/204,939 (Pat. No. 11,241,357)	Jul. 7, 2016	DEVICES, SYSTEMS AND METHODS FOR PROMOTING HAIR GROWTH
EDGE.091C1	17/592,432	Feb. 3, 2022	DEVICES, SYSTEMS AND METHODS FOR IMPROVING SCALP HEALTH
EDGE.172DA	29/811,066	Oct. 11, 2021	SKIN TREATMENT SYSTEM
EDGE.173DA	29/807,430	Sep. 10, 2021	SKIN TREATMENT DEVICE
EDGE.174DA	29/807,428	Sep. 10, 2021	CONTAINER FOR A SKIN TREATMENT DEVICE
EDGE.180DA	29/811,070	Oct. 11, 2021	SKIN TREATMENT TIP

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /C.D.K/

Copies of these patents and patent applications, including any pending claims, office actions, allowances and/or other communications, are available through PALM and/or PAIR. However, if the Examiner so requests, Applicant will be happy to provide the Examiner with copies of any applications, pending claims, office actions, allowances, communications or any other documents, at any time.

Further, Applicant notes for the record that the claims of the present application are different and may be broader in scope than the claims in any related patent or application. To the extent that any statements made in a related case (such as amendments or characterizations regarding the scope of a claim or prior art) could be construed as a disclaimer of any subject matter supported by the present disclosure, Applicant rescinds and retracts such disclaimer. Accordingly, any listed or referenced prior art may need to be re-visited. Further, any objections or rejections made by the Examiner in the issued and allowed cases identified above may need to be re-visited.

Timing of Disclosure

This Information Disclosure Statement is being filed within three months of the filing date or date of national phase entry, with an RCE or before receipt of a First Office Action after an RCE, and no fee is believed to be required. However, the Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment, to Account No. 11-1410.

Respectfully submitted,

KNOBBE, MARTENS, OLSON & BEAR, LLP

Dated: February 15, 2022

By: /Theodore G. Papagiannis/
Theodore G. Papagiannis
Registration No. 61,546
Registered Practitioner
(949) 760-0404

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/CHRISTIAN D KNAUSS/
03/23/2022

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /C.D.K/

PTO/SB/08 Equivalent

INFORMATION DISCLOSURE STATEMENT BY APPLICANT	Application No.	16/517,268
	Filing Date	July 19, 2019
	First Named Inventor	Roger Ignon
	Art Unit	3771
(Multiple sheets used when necessary)	Examiner	Christian D. Knauss
SHEET 1 OF 1	Attorney Docket No.	EDGE.005C7

U.S. PATENT DOCUMENTS					
Examiner Initials	Cite No.	Document Number *Number - Kind Code (if known)* Example: 1,234,567 B1	Publication Date MM-DD-YYYY	Name of Patentee or Applicant	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear
	1	11,202,657	12-21-2021	Ignon et al.	
	2	11,213,321	01-04-2022	Ignon et al.	
	3	11,224,728	01-18-2022	Ignon et al.	
	4	2006/0278661	11-07-2019	Cooper et al.	
	5	2013/0261534	10-03-2013	Niezgoda et al.	
	6	2021/0145479	05-20-2021	Ignon et al.	
	7	2021/0353922	11-18-2021	Ignon et al.	

FOREIGN PATENT DOCUMENTS						
Examiner Initials	Cite No.	Foreign Patent Document *Country Code-Number-Kind Code* Example: JP 1234567 A1	Publication Date MM-DD-YYYY	Name of Patentee or Applicant	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear	**T[1]**

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	**T[1]**

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Examiner Signature	Date Considered
***Examiner:** Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

T[1] - Place a check mark in this area when an English language Translation is attached.

Electronic Patent Application Fee Transmittal	
Application Number:	16517268
Filing Date:	19-Jul-2019
Title of Invention:	DEVICES AND METHODS FOR TREATING SKIN
First Named Inventor/Applicant Name:	Roger Ignon
Filer:	Theodore G. Papagiannis/Caroline Bialeck
Attorney Docket Number:	EDGE.005C7
Filed as Small Entity	
Filing Fees for Utility under 35 USC 111(a)	

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Basic Filing:				
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Extension - 2 months with $0 paid	2252	1	320	320
Miscellaneous:				
RCE- 1ST REQUEST	2801	1	680	680
		Total in USD ($)		**1000**

Electronic Acknowledgement Receipt	
EFS ID:	45004778
Application Number:	16517268
International Application Number:	
Confirmation Number:	9432
Title of Invention:	DEVICES AND METHODS FOR TREATING SKIN
First Named Inventor/Applicant Name:	Roger Ignon
Customer Number:	20995
Filer:	Theodore G. Papagiannis/Jennifer Neat
Filer Authorized By:	Theodore G. Papagiannis
Attorney Docket Number:	EDGE.005C7
Receipt Date:	15-FEB-2022
Filing Date:	19-JUL-2019
Time Stamp:	19:03:55
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	CARD
Payment was successfully received in RAM	$1000
RAM confirmation Number	E20222EJ04252702
Deposit Account	111410
Authorized User	Jennifer Neat
The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows: 37 CFR 1.16 (National application filing, search, and examination fees) 37 CFR 1.17 (Patent application and reexamination processing fees)	

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Request for Continued Examination (RCE)	EDGE005C7_RCE.pdf	1350016 7d64bef2f7dbd4c290fa4a38124700 4aa93f6015	no	3
Warnings:					
Information:					
2		EDGE005C7_IDS.pdf	57543 1fb519535da8d13ecfe6d94f90be0a41e410d970	yes	5

	Multipart Description/PDF files in .zip description		
	Document Description	**Start**	**End**
	Information Disclosure Statement (IDS) Form (SB08)	1	4
	Information Disclosure Statement (IDS) Form (SB08)	5	5

Warnings:					
Information:					
3	Fee Worksheet (SB06)	fee-info.pdf	40712 3eaaeae3ca0ac6526d449d277eb4604b63bc92b3	no	2
Warnings:					
Information:					
			Total Files Size (in bytes):	1448271	

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

Doc code: RCEX
Doc description: Request for Continued Examination (RCE)

PTO/SB/30EFS (02-18)
Approved for use through 11/30/2020. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

REQUEST FOR CONTINUED EXAMINATION(RCE)TRANSMITTAL
(Submitted Only via EFS-Web)

Application Number	16517268	Filing Date	2019-07-19	Docket Number (if applicable)	EDGE.005C7	Art Unit	3771
First Named Inventor	Ignon et al.			Examiner Name	Christian D. Knauss		

This is a Request for Continued Examination (RCE) under 37 CFR 1.114 of the above-identified application.
Request for Continued Examination (RCE) practice under 37 CFR 1.114 does not apply to any utility or plant application filed prior to June 8, 1995, or to any design application. The Instruction Sheet for this form is located at WWW.USPTO.GOV

SUBMISSION REQUIRED UNDER 37 CFR 1.114

Note: If the RCE is proper, any previously filed unentered amendments and amendments enclosed with the RCE will be entered in the order in which they were filed unless applicant instructs otherwise. If applicant does not wish to have any previously filed unentered amendment(s) entered, applicant must request non-entry of such amendment(s).

☒ Previously submitted. If a final Office action is outstanding, any amendments filed after the final Office action may be considered as a submission even if this box is not checked.

☐ Consider the arguments in the Appeal Brief or Reply Brief previously filed on _____

☒ Other Please consider the arguments in the Amendment filed December 15, 2021.

☒ Enclosed

☐ Amendment/Reply

☒ Information Disclosure Statement (IDS)

☐ Affidavit(s)/ Declaration(s)

☐ Other _____

MISCELLANEOUS

☐ Suspension of action on the above-identified application is requested under 37 CFR 1.103(c) for a period of months _____
(Period of suspension shall not exceed 3 months; Fee under 37 CFR 1.17(i) required)

☐ Other _____

FEES

☒ **The RCE fee under 37 CFR 1.17(e) is required by 37 CFR 1.114 when the RCE is filed.**
The Director is hereby authorized to charge any underpayment of fees, or credit any overpayments, to Deposit Account No 111410

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT REQUIRED

X Patent Practitioner Signature

Applicant Signature

PTO/SB/30EFS (02-18)
Approved for use through 11/30/2020. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Signature of Registered U.S. Patent Practitioner			
Signature	/Theodore G. Papagiannis/	Date (YYYY-MM-DD)	2022-02-14
Name	Theodore G. Papagiannis	Registration Number	61546

This collection of information is required by 37 CFR 1.114. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

Privacy Act Statement

The Privacy Act of 1974 (P.L. 93-579) requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether the Freedom of Information Act requires disclosure of these records.

2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.

3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.

4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).

5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.

6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).

7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.

8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspections or an issued patent.

9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

INFORMATION DISCLOSURE STATEMENT

First Inventor: Roger Ignon	**Conf. No.:** 9432
App. No.: 16/517,268	**Filed:** July 19, 2019
Examiner: Christian D. Knauss	**Art Unit:** 3771
Title: DEVICES AND METHODS FOR TREATING SKIN	

Mail Stop RCE
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

References and Listing

Pursuant to 37 CFR 1.56, an Information Disclosure Statement listing references is provided herewith. Identification herein is not an admission that any of the references are prior art to the above captioned application.

No Disclaimers

To the extent that anything in the Information Disclosure Statement or the listed references could be construed as a disclaimer of any subject matter supported by the present application, Applicant hereby rescinds and retracts such disclaimer.

Related Patents and Applications of Assignee

Applicant wishes to draw the Examiner's attention to the following U.S. patents and patent applications of the present application's assignee.

Attorney Docket No.	App. No. (Pat. No., if appl.)	Filing Date	Title
EDGE.004A	09/648,025 (Pat. No. 6,641,591)	Aug. 25, 2000	INSTRUMENTS AND TECHNIQUES FOR CONTROLLED REMOVAL OF EPIDERMAL LAYERS
EDGE.004C1	10/699,747 (Pat. No. 7,789,886)	Nov. 3, 2003	INSTRUMENTS AND TECHNIQUES FOR CONTROLLED REMOVAL OF EPIDERMAL LAYERS
EDGE.004C1DV1	11/739,615 (Pat. No. 8,337,513)	Apr. 24, 2007	INSTRUMENTS AND TECHNIQUES FOR CONTROLLED REMOVAL OF EPIDERMAL LAYERS
EDGE.004C2	11/417,709 (Pat. No. 8,066,716)	May 3, 2006	INSTRUMENTS AND TECHNIQUES FOR CONTROLLED REMOVAL OF EPIDERMAL LAYERS
EDGE.004C3	11/417,396 (Pat. No. 7,678,120)	May 3, 2006	INSTRUMENTS AND TECHNIQUES FOR CONTROLLED REMOVAL OF EPIDERMAL LAYERS
EDGE.004C5	14/702,509 (Pat. No. 9,775,646)	May 1, 2015	DEVICES AND SYSTEMS FOR TREATING THE SKIN USING VACUUM
EDGE.004C6	14/702,486 (Pat. No. 9,468,464)	May 1, 2015	METHODS FOR TREATING THE SKIN USING VACUUM
EDGE.005A	11/392,348 (Pat. No. 8,048,089)	Mar. 29, 2006	APPARATUS AND METHODS FOR TREATING THE SKIN
EDGE.005C1	13/267,554 (Pat. No. 9,474,886)	Oct. 6, 2011	REMOVABLE TIPS FOR SKIN TREATMENT SYSTEMS

Attorney Docket No.	**App. No.** (Pat. No., if appl.)	**Filing Date**	**Title**
EDGE.005C2	14/698,673 (Pat No. 9,550,052)	Apr. 28, 2015	CONSOLE SYSTEM FOR THE TREATMENT OF SKIN
EDGE.005C3	14/698,713 (Pat. No. 9,662,482)	Apr. 28, 2015	METHODS AND SYSTEMS FOR EXTRACTION OF MATERIALS FROM SKIN
EDGE.005C4	14/700,789 (Pat. No. 9,814,868)	Apr. 30, 2015	TIP WITH EMBEDDED MATERIALS FOR SKIN TREATMENT
EDGE.005C5	15/660,750 (Pat. No. 10/357,641)	Jul. 26, 2017	TIPS FOR SKIN TREATMENT DEVICE
EDGE.005C6	15/660,777 (Pat. No. 10/357,642)	Jul. 26, 2017	REMOVABLE TIPS FOR USE WITH SKIN TREATMENT SYSTEMS
EDGE.005C7	**16/517,268** (***present application***)	**July 19, 2019**	**DEVICES AND METHODS FOR TREATING SKIN**
EDGE.005C8	17/165,820	Feb. 2, 2021	DEVICES AND METHODS FOR TREATING SKIN
EDGE.005C9	17/165,807	Feb. 2, 2021	DEVICES AND METHODS FOR TREATING SKIN
EDGE.006A	09/294,254 (Pat. No. 6,162,232)	Apr. 19, 1999	INSTRUMENTS AND TECHNIQUES FOR HIGH-VELOCITY FLUID ABRASION OF EPIDERMAL LAYERS WITH SKIN COOLING
EDGE.007A	09/475,480 (Pat. No. 6,299,620)	Dec. 30, 1999	INSTRUMENTS AND TECHNIQUES FOR INDUCING NEOCOLLAGENESIS IN SKIN TREATMENTS
EDGE.008A	09/475,479 (Pat. No. 6,387,103)	Dec. 30, 1999	INSTRUMENTS AND TECHNIQUES FOR INDUCING NEOCOLLAGENESIS IN SKIN TREATMENTS
EDGE.022A	11/370,200	Mar. 7, 2006	MICRODERMABRASION METHOD AND APPARATUS
EDGE.044A	12/362,353 (Pat. No. 9,056,193)	Jan. 29, 2009	APPARATUS AND METHOD FOR TREATING THE SKIN
EDGE.044C1	14/734,995 (Pat. No. 11,020,577)	Jun. 9, 2015	DEVICES AND SYSTEMS FOR TREATING SKIN SURFACES
EDGE.044C2	17/332,897	May 27, 2021	DEVICES, SYSTEMS, AND METHODS FOR TREATING THE SKIN
EDGE.044CP1	12/832,663 (Pat. No. 8,814,836)	Jul 8, 2010	DEVICES, SYSTEMS AND METHODS FOR TREATING THE SKIN USING TIME-RELEASE SUBSTANCES
EDGE.044P1C1	14/455,762 (Pat. No. 9,642,997)	Aug. 8, 2014	DEVICES FOR TREATING SKIN USING TREATMENT MATERIALS LOCATED ALONG A TIP
EDGE.044P1C2	15/588,102 (Pat. No. 10,556,097)	May 5, 2017	DEVICES FOR TREATING SKIN USING TREATMENT MATERIALS LOCATED ALONG A TIP
EDGE.044P1C3	16/784,850	Feb. 7, 2020	DEVICES AND METHODS FOR TREATING SKIN
EDGE.047A	12/346,582 (Pat. No. 8,343,116)	Dec. 30, 2008	APPARATUS AND METHOD FOR TREATING THE SKIN
EDGE.047C1	13/620,376 (Pat. No. 9,486,615)	Sep. 14, 2012	MICRODERMABRASION APPARATUS AND METHOD
EDGE.047C2	15/344,357 (Pat. No. 10,556,096)	Nov. 4, 2016	DEVICES AND METHODS FOR SKIN TREATMENT
EDGE.047C3	16/784,044	Feb. 6, 2020	DEVICES AND METHODS FOR SKIN TREATMENT
EDGE.050A	09/540,945 (Pat. No. 6,592,595)	Mar. 31, 2000	MICRODERMABRASION AND SUCTION MASSAGE APPARATUS AND METHOD
EDGE.050C1	09/698,409 (Pat. No. 6,527,783)	Oct. 27, 2000	MICRODERMABRASION AND SUCTION MASSAGE APPARATUS AND METHOD
EDGE.050DV1	10/177,173 (Pat. No. 6,673,082)	Jun. 20, 2002	MICRODERMABRASION HANDPIECE WITH SUPPLY AND RETURN LUMENS
EDGE.051A	10/315,478 (Pat. No. 6,942,649)	Dec. 10, 2002	MICRODERMABRASION FLUID APPLICATION SYSTEM AND METHOD

Attorney Docket No.	App. No. (Pat. No., if appl.)	Filing Date	Title
EDGE.052A	09/699,220 (Pat. No. 6,629,983)	Oct. 27, 2000	APPARATUS AND METHOD FOR SKIN/SURFACE ABRASION
EDGE.065A	14/211,089 (Pat. No. 10,238,812)	Mar. 14, 2014	SKIN TREATMENT SYSTEMS AND METHODS USING NEEDLES
EDGE.065C1	16/363,310	Mar. 25, 2019	SKIN TREATMENT SYSTEMS AND METHODS USING NEEDLES
EDGE.077A	14/211,290 (Pat. No. 9,566,088)	Mar. 14, 2014	DEVICES, SYSTEMS AND METHODS FOR TREATING THE SKIN
EDGE.077C1	15/430,209 (Pat. No. 10,251,675)	Feb. 10, 2017	DEVICES, SYSTEMS AND METHODS FOR TREATING THE SKIN
EDGE.077C2	16/376,956	Apr. 5, 2019	DEVICES, SYSTEMS AND METHODS FOR TREATING THE SKIN
EDGE.077NP	14/774,641 (Pat. No. 10,172,644)	Sep. 10, 2015	DEVICES, SYSTEMS AND METHODS FOR TREATING THE SKIN
EDGE.077NPC1	16/241,572 (Pat. No. 10,993,743)	Jan. 7, 2019	DEVICES, SYSTEMS AND METHODS FOR TREATING THE SKIN
EDGE.077NPC2	17/163,128	Jan. 29, 2021	DEVICES, SYSTEMS AND METHODS FOR TREATING THE SKIN
EDGE.077NPC3	17/163,199	Jan. 29, 2021	DEVICES, SYSTEMS AND METHODS FOR TREATING THE SKIN
EDGE.077NPC4	17/163,237 (Pat. No. 11,202,657)	Jan. 29, 2021	DEVICES, SYSTEMS AND METHODS FOR TREATING THE SKIN
EDGE.077NPC5	17/163,240 (Pat. No. 11,213,321)	Jan. 29, 2021	DEVICES, SYSTEMS AND METHODS FOR TREATING THE SKIN
EDGE.090A	14/998,375 (Pat. No. 9,498,610)	Dec. 23, 2015	DEVICES AND METHODS FOR TREATING THE SKIN USING A ROLLERBALL OR A WICKING MEMBER
EDGE.090C1	15/354,754 (Pat. No. 10,035,007)	Nov. 17, 2016	DEVICES AND METHODS FOR TREATING THE SKIN
EDGE.090C2	16/040,397	July 19, 2018	DEVICES AND METHODS FOR TREATING THE SKIN
EDGE.090C3	17/164,580	Feb. 1, 2021	DEVICES AND METHODS FOR TREATING THE SKIN
EDGE.090P1	15/498,416 (Pat. No. 10,179,229)	Apr. 26, 2017	DEVICES AND METHODS FOR TREATING THE SKIN USING A POROUS MEMBER
EDGE.090P1C1	16/246,306 (Pat. No. 11,224,728)	Jan. 11, 2019	DEVICES AND METHODS FOR TREATING THE SKIN USING A POROUS MEMBER
EDGE.090P1C2	17/576,888	Jan. 14, 2022	DEVICES AND METHODS FOR TREATING THE SKIN
EDGE.091A	15/204,939 (Pat. No. 11,241,357)	Jul. 7, 2016	DEVICES, SYSTEMS AND METHODS FOR PROMOTING HAIR GROWTH
EDGE.091C1	17/592,432	Feb. 3, 2022	DEVICES, SYSTEMS AND METHODS FOR IMPROVING SCALP HEALTH
EDGE.172DA	29/811,066	Oct. 11, 2021	SKIN TREATMENT SYSTEM
EDGE.173DA	29/807,430	Sep. 10, 2021	SKIN TREATMENT DEVICE
EDGE.174DA	29/807,428	Sep. 10, 2021	CONTAINER FOR A SKIN TREATMENT DEVICE
EDGE.180DA	29/811,070	Oct. 11, 2021	SKIN TREATMENT TIP

Copies of these patents and patent applications, including any pending claims, office actions, allowances and/or other communications, are available through PALM and/or PAIR. However, if the Examiner so requests, Applicant will be happy to provide the Examiner with copies of any applications, pending claims, office actions, allowances, communications or any other documents, at any time.

Further, Applicant notes for the record that the claims of the present application are different and may be broader in scope than the claims in any related patent or application. To the extent that any statements made in a related case (such as amendments or characterizations regarding the scope of a claim or prior art) could be construed as a disclaimer of any subject matter supported by the present disclosure, Applicant rescinds and retracts such disclaimer. Accordingly, any listed or referenced prior art may need to be re-visited. Further, any objections or rejections made by the Examiner in the issued and allowed cases identified above may need to be re-visited.

Timing of Disclosure

This Information Disclosure Statement is being filed within three months of the filing date or date of national phase entry, with an RCE or before receipt of a First Office Action after an RCE, and no fee is believed to be required. However, the Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment, to Account No. 11-1410.

Respectfully submitted,

KNOBBE, MARTENS, OLSON & BEAR, LLP

Dated: February 15, 2022

By: /Theodore G. Papagiannis/
Theodore G. Papagiannis
Registration No. 61,546
Registered Practitioner
(949) 760-0404

55106533

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
16/517,268	07/19/2019	Roger Ignon	EDGE.005C7	9432

20995 7590 01/05/2022

KNOBBE MARTENS OLSON & BEAR LLP
2040 MAIN STREET
FOURTEENTH FLOOR
IRVINE, CA 92614

EXAMINER	
KNAUSS, CHRISTIAN D	

ART UNIT	PAPER NUMBER
3771	

NOTIFICATION DATE	DELIVERY MODE
01/05/2022	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

efiling@knobbe.com
jayna.cartee@knobbe.com

Advisory Action Before the Filing of an Appeal Brief	**Application No.** 16/517,268	**Applicant(s)** Ignon et al.	
	Examiner CHRISTIAN D KNAUSS	**Art Unit** 3771	**AIA (FITF) Status** No

--The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

THE REPLY FILED 15 December 2021 FAILS TO PLACE THIS APPLICATION IN CONDITION FOR ALLOWANCE.

NO NOTICE OF APPEAL FILED

1. ☑ The reply was filed after a final rejection. No Notice of Appeal has been filed. To avoid abandonment of this application, applicant must timely file one of the following replies: (1) an amendment, affidavit, or other evidence, which places the application in condition for allowance; (2) a Notice of Appeal (with appeal fee) in compliance with 37 CFR 41.31; or (3) a Request for Continued Examination (RCE) in compliance with 37 CFR 1.114 if this is a utility or plant application. Note that RCEs are not permitted in design applications. The reply must be filed within one of the following time periods:
   a) ☑ The period for reply expires 3 months from the mailing date of the final rejection.
   b) ☐ The period for reply expires on: (1) the mailing date of this Advisory Action; or (2) the date set forth in the final rejection, whichever is later. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of the final rejection.
   c) ☐ A prior Advisory Action was mailed more than 3 months after the mailing date of the final rejection in response to a first after-final reply filed within 2 months of the mailing date of the final rejection.The current period for reply expires ____ months from the mailing date of *the prior Advisory Action* or SIX MONTHS from the mailing date of the final rejection, whichever is earlier.
   Examiner Note: If box 1 is checked, check either box (a), (b) or (c). ONLY CHECK BOX (b) WHEN THIS ADVISORY ACTION IS THE FIRST RESPONSE TO APPLICANTS FIRST AFTER-FINAL REPLY WHICH WAS FILED WITHIN TWO MONTHS OF THE FINAL REJECTION. ONLY CHECK BOX (c) IN THE LIMITED SITUATION SET FORTH UNDER BOX (c). See MPEP 706.07(f).

Extensions of time may be obtained under 37 CFR 1.136(a). The date on which the petition under 37 CFR 1.136(a) and the appropriate extension fee have been filed is the date for purposes of determining the period of extension and the corresponding amount of the fee. The appropriate extension fee under 37 CFR 1.17(a) is calculated from: (1) the expiration date of the shortened statutory period for reply originally set in the final Office action; or (2) as set forth in (b) or (c) above, if checked. Any reply received by the Office later than three months after the mailing date of the final rejection, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

NOTICE OF APPEAL

2. ☐ The Notice of Appeal was filed on _____. A brief in compliance with 37 CFR 41.37 must be filed within two months of the date of filing the Notice of Appeal (37 CFR 41.37(a)), or any extension thereof (37 CFR 41.37(e)), to avoid dismissal of the appeal. Since a Notice of Appeal has been filed, any reply must be filed within the time period set forth in 37CFR 41.37(a).

AMENDMENTS

3. ☑ The proposed amendments filed after a final rejection, but prior to the date of filing a brief, will not be entered because
   a) ☑ They raise new issues that would require further consideration and/or search (see NOTE below);
   b) ☐ They raise the issue of new matter (see NOTE below);
   c) ☐ They are not deemed to place the application in better form for appeal by materially reducing or simplifying the issues for appeal; and/or
   d) ☐ They present additional claims without canceling a corresponding number of finally rejected claims.
   NOTE: See Continuation Sheet (See 37CFR 1.116 and 41.33(a)).
4. ☐ The amendments are not in compliance with 37CFR 1.121. See attached Notice of Non-Compliant Amendment (PTOL-324).
5. ☑ Applicants reply has overcome the following rejection(s): See Continuation Sheet
6. ☐ Newly proposed or amended claim(s) _____ would be allowable if submitted in a separate, timely filed amendment canceling the non-allowable claim(s).
7. ☑ For purposes of appeal, the proposed amendment(s):(a) ☑ will not be entered, or (b) ☐ will be entered, and an explanation of how the new or amended claims would be rejected is provided below or appended.

AFFIDAVIT OR OTHER EVIDENCE

8. ☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on _____
9. ☐ The affidavit or other evidence filed after final action, but before or on the date of filing a Notice of Appeal will not be entered because applicant failed to provide a showing of good and sufficient reasons why the affidavit or other evidence is necessary and was not earlier presented. See 37 CFR 1.116(e).
10. ☐ The affidavit or other evidence filed after the date of filing the Notice of Appeal, but prior to the date of filing a brief, will not be entered because the affidavit or other evidence failed to overcome all rejections under appeal and/or appellant fails to provide a showing of good and sufficient reasons why it is necessary and was not earlier presented. See 37 CFR 41.33(d)(1).
11. ☐ The affidavit or other evidence is entered. An explanation of the status of the claims after entry is below or attached.

REQUEST FOR RECONSIDERATION/OTHER

12. ☑ The request for reconsideration has been considered but does NOT place the application in condition for allowance because: See Continuation Sheet.
13. ☑ Note the attached Information *Disclosure Statement*(s). (PTO/SB/08) Paper No(s). _____
14. ☑ Other: PTO-2323 attached, Interview Summary 20211222 attached, IDS.

STATUS OF CLAIMS

15. The status of the claim(s) is (or will be) as follows:
    Claim(s) allowed:_____.
    Claim(s) objected to:_____.
    Claim(s) rejected:2-21.
    Claim(s) withdrawn from consideration:_____.

/C.D.K/ Examiner, Art Unit 3771	/DIANE D YABUT/ Primary Examiner, Art Unit 3771

Continuation of 3 and 12. NOTE: in the AFCP response, claims 2, 10, and 16 were amended by the Applicant, altering the scope of the claims. The new claim scope necessitates an updated search and/or further consideration by the Examiner. The Examiner utilized the search/consideration time allocated under AFCP to consider the IDS forms submitted with the response and to do preliminary searching of the new claim scope. However, a determination on allowability could not be made within the guidelines of the program. Further search and consideration is required.

Continuation of AMENDMENTS 5. Applicant's reply has overcome the following rejection(s): The Examiner and the Applicant's representative agreed that the amendments to the claims would overcome the claim objections and rejections from the previous Office Action.

Examiner-Initiated Interview Summary	**Application No.** 16/517,268	**Applicant(s)** Ignon et al.		
	Examiner CHRISTIAN D KNAUSS	**Art Unit** 3771	**AIA (First Inventor to File) Status** No	**Page** 1 of 1

All Participants (applicant, applicants representative, PTO personnel)	**Title**	**Type**
CHRISTIAN D KNAUSS	Examiner	Telephonic
THEODORE PAPAGIANNIS	Attorney of Record	

Date of Interview: 30 December 2021

Issues Discussed:

Proposed Amendment(s)

The Examiner and the Applicant's representative discussed the AFCP response filed 12/15/21. The Examiner and the Applicant's representative agreed that the amendments to independent claims 2, 10, and 16 would overcome the rejections from the previous Office Action. The Examiner utilized the search/ consideration time allocated under the AFCP program to consider the IDS forms submitted with the response and to do preliminary searching of the new claim scope. However, a determination on allowability could not be made within the guidelines of the program. Further search and consideration is required. No allowable subject matter was agreed upon.

/CHRISTIAN D KNAUSS/ Examiner, Art Unit 3771	/DIANE D YABUT/ Primary Examiner, Art Unit 3771

Applicant is reminded that a complete written statement as to the substance of the interview must be made of record in the application file. It is the applicants responsibility to provide the written statement, unless the interview was initiated by the Examiner and the Examiner has indicated that a written summary will be provided. See MPEP 713.04
Please further see:
MPEP 713.04
Title 37 Code of Federal Regulations (CFR) § 1.133 Interviews, paragraph (b)
37 CFR § 1.2 Business to be transacted in writing

Applicant recordation instructions: It is not necessary for applicant to provide a separate record of the substance of interview.

Examiner recordation instructions: Examiners must summarize the substance of any interview of record. A complete and proper recordation of the substance of an interview should include the items listed in MPEP 713.04 for complete and proper recordation including the identification of the general thrust of each argument or issue discussed, a general indication of any other pertinent matters discussed regarding patentability and the general results or outcome of the interview, to include an indication as to whether or not agreement was reached on the issues raised.

AFCP 2.0 Decision	Application No.	Applicant(s)	
	16/517,268	Ignon et al.	
	Examiner	Art Unit	AIA (FITF) Status
	CHRISTIAN D KNAUSS	3771	No

This is in response to the After Final Consideration Pilot request filed 15 December 2021.

1. **Improper Request** – The AFCP 2.0 request is improper for the following reason(s) and the after final amendment submitted with the request will be treated under pre-pilot procedure.

   ☐ An AFCP 2.0 request form PTO/SB/434 (or equivalent document) was not submitted.

   ☐ A non-broadening amendment to at least one independent claim was not submitted.

   ☐ The request is not the first proper AFCP 2.0 request submitted in response to the most recent final rejection.

   ☐ Other: _____

2. **Proper Request**

   A. After final amendment submitted with the request will not be treated under AFCP 2.0.
   The after final amendment cannot be reviewed and a search conducted within the guidelines of the pilot program.

   ☐ The after final amendment will be treated under pre-pilot procedure.

   B. Updated search and/or completed additional consideration.
   The examiner performed an updated search and/or completed additional consideration of the after final amendment within the time authorized for the pilot program. The result(s) of the updated search and/or completed additional consideration are:

   ☐ 1. All of the rejections in the most recent final Office action are overcome and a Notice of Allowance is issued herewith.

   ☐ 2. The after final amendment would not overcome all of the rejections in the most recent final Office action . See attached interview summary for further details.

   ☐ 3. The after final amendment was reviewed, and it raises a new issue(s). See attached interview summary for further details.

   ☑ 4. The after final amendment raises new issues, but would overcome all of the rejections in the most recent final Office action. A decision on determining allowability could not be made within the guidelines of the pilot. See attached interview summary for further details, including any newly discovered prior art.

   ☐ 5. Other: _____

   Examiner Note: Please attach an interview summary when necessary as described above.

PTO/SB/08 Equivalent

INFORMATION DISCLOSURE STATEMENT BY APPLICANT	Application No.	16/517,268
	Filing Date	July 19, 2019
	First Named Inventor	Roger Ignon
	Art Unit	3771
(Multiple sheets used when necessary)	Examiner	Christian D. Knauss
SHEET 1 OF 1	Attorney Docket No.	EDGE.005C7

U.S. PATENT DOCUMENTS					
Examiner Initials	Cite No.	Document Number *Number - Kind Code (if known)* Example: 1,234,567 B1	Publication Date MM-DD-YYYY	Name of Patentee or Applicant	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear
	1	6,635,035	10-21-2003	Marasco et al.	
	2	2008/0200863	08-21-2008	Chomas et al.	

FOREIGN PATENT DOCUMENTS						
Examiner Initials	Cite No.	Foreign Patent Document *Country Code-Number-Kind Code* Example: JP 1234567 A1	Publication Date MM-DD-YYYY	Name of Patentee or Applicant	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear	**T[1]**

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	**T[1]**

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Examiner Signature	/CHRISTIAN D KNAUSS/	Date Considered	12/30/2021

***Examiner:** Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

T[1] - Place a check mark in this area when an English language Translation is attached.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /C.D.K/

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Inventor	:	Roger Ignon et al.
Appl. No.	:	16/517,268
Filed	:	July 19, 2019
For	:	DEVICES AND METHODS FOR TREATING SKIN
Examiner	:	Christian D. Knauss
Art Unit	:	3771
Conf. No.	:	9432

RESPONSE ACCOMPANYING AFCP 2.0 SUBMISSION

Mail Stop After Final
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Commissioner:

This response is being submitted with an accompanying After Final Consideration Program 2.0 following the Office Action mailed on September 15, 2021 for the above-captioned application (the "Office Action").

Amendments to the Claims are reflected in the listing of claims which begins on page 2 of this paper.

Remarks begin on page 6 of this paper.

DO NOT ENTER: /C.D.K/
12/30/2021

INFORMATION DISCLOSURE STATEMENT

Inventor	:	Ignon et al.
Appl. No.	:	16/517,268
Filed	:	July 19, 2019
For	:	DEVICES AND METHODS FOR TREATING SKIN
Examiner	:	Christian D. Knauss
Art Unit	:	3771
Conf. No.	:	9432

Mail Stop AF
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

References and Listing

Pursuant to 37 CFR 1.56, an Information Disclosure Statement listing references is provided herewith. Copies of any listed foreign and non-patent literature references are being submitted. Identification herein is not an admission that any of the references are prior art to the above captioned application.

No Disclaimers

To the extent that anything in the Information Disclosure Statement or the listed references could be construed as a disclaimer of any subject matter supported by the present application, Applicant hereby rescinds and retracts such disclaimer.

Co-Pending Applications of Assignee

Applicant wishes to draw the Examiner's attention to the following co-pending applications of the present application's assignee.

Attorney Docket No.	Country	Appl. No. (Pat. No., if appl.)	Filing Date	Title
EDGE.004A	US	09/648,025 (Pat. No. 6,641,591)	Aug. 25, 2000	INSTRUMENTS AND TECHNIQUES FOR CONTROLLED REMOVAL OF EPIDERMAL LAYERS
EDGE.004C1	US	10/699,747 (Pat. No. 7,789,886)	Nov. 3, 2003	INSTRUMENTS AND TECHNIQUES FOR CONTROLLED REMOVAL OF EPIDERMAL LAYERS
EDGE.004C1DV1	US	11/739,615 (Pat. No. 8,337,513)	Apr. 24, 2007	INSTRUMENTS AND TECHNIQUES FOR CONTROLLED REMOVAL OF EPIDERMAL LAYERS

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /C.D.K/

Attorney Docket No.	Country	Appl. No. (Pat. No., if appl.)	Filing Date	Title
EDGE.004C2	US	11/417,709 (Pat. No. 8,066,716)	May 3, 2006	INSTRUMENTS AND TECHNIQUES FOR CONTROLLED REMOVAL OF EPIDERMAL LAYERS
EDGE.004C3	US	11/417,396 (Pat. No. 7,678,120)	May 3, 2006	INSTRUMENTS AND TECHNIQUES FOR CONTROLLED REMOVAL OF EPIDERMAL LAYERS
EDGE.004C4	US	13/620,164	Sep. 14, 2012	INSTRUMENTS AND TECHNIQUES FOR CONTROLLED REMOVAL OF EPIDERMAL LAYERS
EDGE.004C5	US	14/702,509 (Pat. No. 9,775,646)	May 1, 2015	DEVICES AND SYSTEMS FOR TREATING THE SKIN USING VACUUM
EDGE.004C6	US	14/702,486 (Pat. No. 9,468,464)	May 1, 2015	METHODS FOR TREATING THE SKIN USING VACUUM
EDGE.004C7	US	15/953,337	Apr. 13, 2018	INSTRUMENTS AND TECHNIQUES FOR CONTROLLED REMOVAL OF EPIDERMAL LAYERS
EDGE.005A	US	11/392,348 (Pat. No. 8,048,089)	Mar. 29, 2006	APPARATUS AND METHODS FOR TREATING THE SKIN
EDGE.005C1	US	13/267,554 (Pat. No. 9,474,886)	Oct. 6, 2011	REMOVABLE TIPS FOR SKIN TREATMENT SYSTEMS
EDGE.005C2	US	14/698,673 (Pat No. 9,550,052)	Apr. 28, 2015	CONSOLE SYSTEM FOR THE TREATMENT OF SKIN
EDGE.005C3	US	14/698,713 (Pat. No. 9,662,482)	Apr. 28, 2015	METHODS AND SYSTEMS FOR EXTRACTION OF MATERIALS FROM SKIN
EDGE.005C4	US	14/700,789 (Pat. No. 9,814,868)	Apr. 30, 2015	TIP WITH EMBEDDED MATERIALS FOR SKIN TREATMENT
EDGE.005C5	US	15/660,750 (Pat. No. 10/357,641)	Jul. 26, 2017	TIPS FOR SKIN TREATMENT DEVICE
EDGE.005C6	US	15/660,777 (Pat. No. 10/357,642)	Jul. 26, 2017	REMOVABLE TIPS FOR USE WITH SKIN TREATMENT SYSTEMS
EDGE.005C7	**US**	**16/517,268 (*present application*)**	**July 19, 2019**	**DEVICES AND METHODS FOR TREATING SKIN**
EDGE.005C8	US	17/165,820	Feb. 2, 2021	DEVICES AND METHODS FOR TREATING SKIN
EDGE.005C9	US	17/165,807	Feb. 2, 2021	DEVICES AND METHODS FOR TREATING SKIN
EDGE.005DP1	US	29/679299	Feb. 4, 2019	SKIN TREATMENT SYSTEM
EDGE.005DP2	US	29/679,306	Feb. 4, 2019	HANDPIECE ASSEMBLY TIP
EDGE.005DP3	US	29/679302	Feb. 4, 2019	HANDPIECE ASSEMBLY TIP
EDGE.006A	US	09/294,254 (Pat. No. 6,162,232)	Apr. 19, 1999	INSTRUMENTS AND TECHNIQUES FOR HIGH-VELOCITY FLUID ABRASION OF EPIDERMAL LAYERS WITH SKIN COOLING
EDGE.007A	US	09/475480 (Pat. No. 6,299,620)	Dec. 30, 1999	INSTRUMENTS AND TECHNIQUES FOR INDUCING NEOCOLLAGENESIS IN SKIN TREATMENTS
EDGE.008A	US	09/475479 (Pat. No. 6,387,103)	Dec. 30, 1999	INSTRUMENTS AND TECHNIQUES FOR INDUCING NEOCOLLAGENESIS IN SKIN TREATMENTS
EDGE.022A	US	11/370,200	Mar. 7, 2006	MICRODERMABRASION METHOD AND APPARATUS
EDGE.044A	US	12/362,353 (Pat. No. 9,056,193)	Jan. 29, 2009	APPARATUS AND METHOD FOR TREATING THE SKIN

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /C.D.K/

Attorney Docket No.	Country	Appl. No. (Pat. No., if appl.)	Filing Date	Title
EDGE.044C1	US	14/734,995 (Pat. No. 11,020,577)	Jun. 9, 2015	DEVICES AND SYSTEMS FOR TREATING SKIN SURFACES
EDGE.044C2	US	17/332,897	May 27, 2021	DEVICES, SYSTEMS, AND METHODS FOR TREATING THE SKIN
EDGE.044CP1	US	12/832,663 (Pat. No. 8,814,836)	Jul 8, 2010	DEVICES, SYSTEMS AND METHODS FOR TREATING THE SKIN USING TIME-RELEASE SUBSTANCES
EDGE.044P1C1	US	14/455,762 (Pat. No. 9,642,997)	Aug. 8, 2014	DEVICES FOR TREATING SKIN USING TREATMENT MATERIALS LOCATED ALONG A TIP
EDGE.044P1C2	US	15/588,102 (Pat. No. 10,556,097)	May 5, 2017	DEVICES FOR TREATING SKIN USING TREATMENT MATERIALS LOCATED ALONG A TIP
EDGE.044P1C3	US	16/784,850	Feb. 7, 2020	DEVICES AND METHODS FOR TREATING SKIN
EDGE.047A	US	12/346,582 (Pat. No. 8,343,116)	Dec. 30, 2008	APPARATUS AND METHOD FOR TREATING THE SKIN
EDGE.047C1	US	13/620,376 (Pat. No. 9,486,615)	Sep. 14, 2012	MICRODERMABRASION APPARATUS AND METHOD
EDGE.047C2	US	15/344,357 (Pat. No. 10,556,096)	Nov. 4, 2016	DEVICES AND METHODS FOR SKIN TREATMENT
EDGE.047C3	US	16/784,044	Feb. 6, 2020	DEVICES AND METHODS FOR SKIN TREATMENT
EDGE.050A	US	09/540,945 (Pat. No. 6,592,595)	Mar. 31, 2000	MICRODERMABRASION AND SUCTION MASSAGE APPARATUS AND METHOD
EDGE.050C1	US	09/698,409 (Pat. No. 6,527,783)	Oct. 27, 2000	MICRODERMABRASION AND SUCTION MASSAGE APPARATUS AND METHOD
EDGE.050DV1	US	10/177,173 (Pat. No. 6,673,082)	Jun. 20, 2002	MICRODERMABRASION HANDPIECE WITH SUPPLY AND RETURN LUMENS
EDGE.051A	US	10/315,478 (Pat. No. 6,942,649)	Dec. 10, 2002	MICRODERMABRASION FLUID APPLICATION SYSTEM AND METHOD
EDGE.052A	US	09/699,220 (Pat. No. 6,629,983)	Oct. 27, 2000	APPARATUS AND METHOD FOR SKIN/SURFACE ABRASION
EDGE.065A	US	14/211,089 (Pat. No. 10,238,812)	Mar. 14, 2014	SKIN TREATMENT SYSTEMS AND METHODS USING NEEDLES
EDGE.065C1	US	16/363,310	Mar. 25, 2019	SKIN TREATMENT SYSTEMS AND METHODS USING NEEDLES
EDGE.077A	US	14/211,290 (Pat. No. 9,566,088)	Mar. 14, 2014	DEVICES, SYSTEMS AND METHODS FOR TREATING THE SKIN
EDGE.077C1	US	15/430,209 (Pat. No. 10,251,675)	Feb. 10, 2017	DEVICES, SYSTEMS AND METHODS FOR TREATING THE SKIN
EDGE.077C2	US	16/376,956	Apr. 5, 2019	DEVICES, SYSTEMS AND METHODS FOR TREATING THE SKIN
EDGE.077NP	US	14/774,641 (Pat. No. 10,172,644)	Sep. 10, 2015	DEVICES, SYSTEMS AND METHODS FOR TREATING THE SKIN
EDGE.077NPC1	US	16/241,572 (Pat. No. 10,993,743)	Jan. 7, 2019	DEVICES, SYSTEMS AND METHODS FOR TREATING THE SKIN
EDGE.077NPC2	US	17/163,128	Jan. 29, 2021	DEVICES, SYSTEMS AND METHODS FOR TREATING THE SKIN
EDGE.077NPC3	US	17/163,199	Jan. 29, 2021	DEVICES, SYSTEMS AND METHODS FOR TREATING THE SKIN
EDGE.077NPC4	US	17/163,237	Jan. 29, 2021	DEVICES, SYSTEMS AND METHODS FOR TREATING THE SKIN
EDGE.077NPC5	US	17/163,240	Jan. 29, 2021	DEVICES, SYSTEMS AND METHODS FOR TREATING THE SKIN

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /C.D.K/

Attorney Docket No.	Country	Appl. No. (Pat. No., if appl.)	Filing Date	Title
EDGE.090A	US	14/998,375 (Pat. No. 9,498,610)	Dec. 23, 2015	DEVICES AND METHODS FOR TREATING THE SKIN USING A ROLLERBALL OR A WICKING MEMBER
EDGE.090C1	US	15/354,754 (Pat. No. 10,035,007)	Nov. 17, 2016	DEVICES AND METHODS FOR TREATING THE SKIN
EDGE.090C2	US	16/040,397	July 19, 2018	DEVICES AND METHODS FOR TREATING THE SKIN
EDGE.090C3	US	17/164,580	Feb. 1, 2021	DEVICES AND METHODS FOR TREATING THE SKIN
EDGE.090P1	US	15/498,416 (Pat. No. 10,179,229)	Apr. 26, 2017	DEVICES AND METHODS FOR TREATING THE SKIN USING A POROUS MEMBER
EDGE.090P1C1	US	16/246,306	Jan. 11, 2019	DEVICES AND METHODS FOR TREATING THE SKIN USING A POROUS MEMBER
EDGE.091A	US	15/204,939	Jul. 7, 2016	DEVICES, SYSTEMS AND METHODS FOR PROMOTING HAIR GROWTH
EDGE.172DA	US	29/811,066	Oct. 11, 2021	SKIN TREATMENT SYSTEM
EDGE.173DA	US	29/807,430	Sep. 10, 2021	SKIN TREATMENT DEVICE
EDGE.174DA	US	29/807,428	Sep. 10, 2021	CONTAINER FOR A SKIN TREATMENT DEVICE
EDGE.180DA	US	29/811,070	Oct. 11, 2021	SKIN TREATMENT TIP

Copies of these patents and patent applications, including any pending claims, office actions, allowances and/or other communications, are available through PALM and/or PAIR. However, if the Examiner so requests, Applicant will be happy to provide the Examiner with copies of any applications, pending claims, office actions, allowances, communications or any other documents, at any time.

Further, Applicant notes for the record that the claims of the present application are different and may be broader in scope than the claims in any related patent or application. To the extent that any statements made in a related case (such as amendments or characterizations regarding the scope of a claim or prior art) could be construed as a disclaimer of any subject matter supported by the present disclosure, Applicant rescinds and retracts such disclaimer. Accordingly, any listed or referenced prior art may need to be re-visited. Further, any objections or rejections made by the Examiner in the issued and allowed cases identified above may need to be re-visited.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /C.D.K/

Timing of Disclosure

This Information Disclosure Statement is being filed after the mailing date of a final action, Notice of Allowance, or other action that closes prosecution. If these references are not officially considered in this application, please place these references in the file in accordance with 37 CFR 1.97(i).

Respectfully submitted,

KNOBBE, MARTENS, OLSON & BEAR, LLP

Dated: December 14, 2021

By: /Theodore G. Papagiannis/
Theodore G. Papagiannis
Registration No. 61,546
Registered Practitioner
(949) 760-0404

54754559

/CHRISTIAN D KNAUSS/
12/30/2021

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /C.D.K/

PTO/SB/08 Equivalent

INFORMATION DISCLOSURE STATEMENT BY APPLICANT	Application No.	16/517,268
	Filing Date	July 19, 2019
	First Named Inventor	Roger Ignon
	Art Unit	3771
(Multiple sheets used when necessary)	Examiner	Christian D. Knauss
SHEET 1 OF 1	Attorney Docket No.	EDGE.005C7

U.S. PATENT DOCUMENTS					
Examiner Initials	Cite No.	Document Number *Number - Kind Code (if known)* Example: 1,234,567 B1	Publication Date MM-DD-YYYY	Name of Patentee or Applicant	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear
	1	6,635,035	10-21-2003	Marasco et al.	
	2	2008/0200863	08-21-2008	Chomas et al.	

FOREIGN PATENT DOCUMENTS						
Examiner Initials	Cite No.	Foreign Patent Document *Country Code-Number-Kind Code* Example: JP 1234567 A1	Publication Date MM-DD-YYYY	Name of Patentee or Applicant	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear	**T[1]**

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	**T[1]**

54754507

Examiner Signature	Date Considered
***Examiner:** Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

T[1] - Place a check mark in this area when an English language Translation is attached.

Doc Code: A.NE.AFCP
Document Description: After Final Consideration Pilot Program Request

PTO/SB/434 (12-20)

CERTIFICATION AND REQUEST FOR CONSIDERATION UNDER THE AFTER FINAL CONSIDERATION PILOT PROGRAM 2.0

Practitioner Docket No.:	Application No.:	Filing Date:
EDGE.005C7	16/517,268	2019-07-19
First Named Inventor:	**Title:**	
Roger Ignon	DEVICES AND METHODS FOR TREATING SKIN	

APPLICANT HEREBY CERTIFIES THE FOLLOWING AND REQUESTS CONSIDERATION UNDER THE AFTER FINAL CONSIDERATION PILOT PROGRAM 2.0 (AFCP 2.0) OF THE ACCOMPANYING RESPONSE UNDER 37 CFR 1.116.

1. The above-identified application is (i) an original utility, plant, or design nonprovisional application filed under 35 U.S.C. 111(a) [a continuing application (*e.g.*, a continuation or divisional application) is filed under 35 U.S.C. 111(a) and is eligible under (i)], or (ii) an international application that has entered the national stage in compliance with 35 U.S.C. 371(c).
2. The above-identified application contains an outstanding final rejection.
3. Submitted herewith is a response under 37 CFR 1.116 to the outstanding final rejection. The response includes an amendment to at least one independent claim, and the amendment does not broaden the scope of the independent claim in any aspect.
4. This certification and request for consideration under AFCP 2.0 is the only AFCP 2.0 certification and request filed in response to the outstanding final rejection.
5. Applicant is willing and available to participate in any interview requested by the examiner concerning the present response.
6. This certification and request is being filed electronically using the Office's electronic filing system (EFS-Web).
7. Any fees that would be necessary consistent with current practice concerning responses after final rejection under 37 CFR 1.116, *e.g.*, extension of time fees, are being concurrently filed herewith. [There is no additional fee required to request consideration under AFCP 2.0.]
8. By filing this certification and request, applicant acknowledges the following:
    - Reissue applications and reexamination proceedings are not eligible to participate in AFCP 2.0.
    - The examiner will verify that the AFCP 2.0 submission is compliant, *i.e.*, that the requirements of the program have been met (see items 1 to 7 above). For compliant submissions:
        - The examiner will review the response under 37 CFR 1.116 to determine if additional search and/or consideration (i) is necessitated by the amendment and (ii) could be completed within the time allotted under AFCP 2.0. If additional search and/or consideration is required but cannot be completed within the allotted time, the examiner will process the submission consistent with current practice concerning responses after final rejection under 37 CFR 1.116, *e.g.*, by mailing an advisory action.
        - If the examiner determines that the amendment does not necessitate additional search and/or consideration, or if the examiner determines that additional search and/or consideration is required and could be completed within the allotted time, then the examiner will consider whether the amendment places the application in condition for allowance (after completing the additional search and/or consideration, if required). If the examiner determines that the amendment does not place the application in condition for allowance, then the examiner will contact the applicant and request an interview.
            - The interview will be conducted by the examiner, and if the examiner does not have negotiation authority, a primary examiner and/or supervisory patent examiner will also participate.
            - If the applicant declines the interview, or if the interview cannot be scheduled within ten (10) calendar days from the date that the examiner first contacts the applicant, then the examiner will proceed consistent with current practice concerning responses after final rejection under 37 CFR 1.116.

Signature	Date	Practitioner Registration No.
/Theodore G. Papagiannis/	December 14, 2021	61,546
Name (Print/Typed)	**Telephone Number**	
Theodore G. Papagiannis	949-760-0404	

***Note**: This form must be signed in accordance with 37 CFR 1.33. See 37 CFR 1.4(d) for signature requirements and certifications. Submit multiple forms if more than one signature is required, see below*.*

☑ * Total of 1 forms are submitted.

Privacy Act Statement

The **Privacy Act of 1974 (P.L. 93-579)** requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether disclosure of these records is required by the Freedom of Information Act.
2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (*i.e.*, GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspection or an issued patent.
9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Inventor	:	Roger Ignon et al.
Appl. No.	:	16/517,268
Filed	:	July 19, 2019
For	:	DEVICES AND METHODS FOR TREATING SKIN
Examiner	:	Christian D. Knauss
Art Unit	:	3771
Conf. No.	:	9432

RESPONSE ACCOMPANYING AFCP 2.0 SUBMISSION

Mail Stop After Final
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Commissioner:

This response is being submitted with an accompanying After Final Consideration Program 2.0 following the Office Action mailed on September 15, 2021 for the above-captioned application (the "Office Action").

Amendments to the Claims are reflected in the listing of claims which begins on page 2 of this paper.

Remarks begin on page 6 of this paper.

AMENDMENTS TO THE CLAIMS

The following listing of claims replaces all prior versions and listings of claims in the application. The listing of claims presents each claim with its respective status shown in parentheses.

1. (*Canceled*)

2. (*Currently Amended*) A skin treatment system comprising:

a manifold system in communication with a first container and at least a second container, wherein each of the first container and the at least second container is configured to contain a treatment material, the manifold system being positioned in or on a console;

a supply conduit placing the manifold system in fluid communication with a handpiece assembly;

wherein the handpiece assembly comprises a working end having a skin contact surface;

a vacuum source;

a waste conduit in fluid communication with the handpiece assembly and the vacuum source to move waste away from the working end of the handpiece assembly during a skin treatment procedure; and

at least one control to permit control of a flow of treatment material from the first container and the at least second container through the supply conduit to the handpiece assembly;

wherein the vacuum source is configured to create a suction force within the waste conduit and along the working end of the handpiece assembly to help remove waste from the handpiece assembly via the waste conduit and to help transfer at least one treatment material from the manifold system to the handpiece assembly.

3. (*Previously Presented*) The system of Claim 2, further comprising a computing device configured to control at least one function of the system.

4. (*Previously Presented*) The system of Claim 2, further comprising a user input device to facilitate control of a flow of treatment material from at least one of the first container and the at least second container to the handpiece assembly.

5. (*Previously Presented*) The system of Claim 4, wherein the user input device comprises a touch screen.

6. (*Previously Presented*) The system of Claim 2, further comprising a display.

7. (*Previously Presented*) The system of Claim 2, wherein the manifold system is in fluid communication with at least four containers.

8. (*Previously Presented*) The system of Claim 2, wherein the first container and the at least second container are configured to releasably couple to the manifold system.

9. (*Previously Presented*) The system of Claim 2, wherein treatment materials from the first container and the at least second container are configured to be delivered to the supply conduit sequentially or simultaneously.

10. (*Currently Amended*) A skin treatment system comprising:

a manifold system in communication with at least two containers that are configured to be secured to the manifold system, wherein each of the at least two containers is configured to contain a treatment material;

a handpiece assembly configured to contact a skin surface of a subject, wherein a supply conduit places the manifold system in fluid communication with the handpiece assembly;

a vacuum source; and

a waste conduit in fluid communication with the handpiece assembly and the vacuum source to move waste away from the handpiece assembly;

wherein the system is configured to deliver at least one treatment material from at least one of the at least two containers to the handpiece assembly via the supply conduit <u>using, at least in part, a vacuum created along a distal end of the handpiece assembly by the vacuum source</u>.

11. (*Previously Presented*) The system of Claim 10, wherein the manifold system is positioned in a console.

12. (*Previously Presented*) The system of Claim 10, further comprising a computing device configured to control at least one function of the system.

13. (*Currently Amended*) The system of Claim 10, further comprising a user input device to facilitate control of a flow of treatment materials from at least one of the at least two containers to the handpiece assembly.

14. (*Previously Presented*) The system of Claim 13, wherein the user input device comprises a touch screen.

15. (*Currently Amended*) The system of Claim 10, wherein treatment materials from a ~~the~~ first container and a ~~the at least~~ second container are configured to be delivered to the supply conduit sequentially or simultaneously.

16. (*Currently Amended*) A skin treatment system comprising:

a manifold system in communication with at least two containers, wherein each of the at least two containers is configured to contain a treatment material;

a handpiece assembly configured to contact a skin surface of a subject;

a supply conduit placing the manifold system, and thus the at least two containers, in fluid communication with the handpiece assembly; and

a waste conduit in fluid communication with the handpiece assembly and a vacuum source to move waste away from the handpiece assembly; and

wherein the system is configured to deliver treatment materials from at least one of the at least two containers to the handpiece assembly via the supply conduit using, at least in part, a vacuum created along a distal end of the handpiece assembly by the vacuum source.

17. (*Previously Presented*) The system of Claim 16, wherein the manifold system is positioned in a console.

18. (*Previously Presented*) The system of Claim 16, further comprising a computing device configured to control at least one function of the system.

19. (*Previously Presented*) The system of Claim 16, further comprising a user input device to facilitate control a flow of treatment materials from at least one of the at least two containers to the handpiece assembly.

20. (*Previously Presented*) The system of Claim 19, wherein the user input device comprises a touch screen.

21. (*Previously Presented*) The system of Claim 16, wherein treatment materials from the first container and the at least second container are configured to be delivered to the supply conduit sequentially or simultaneously.

REMARKS

The foregoing amendments and the following remarks are responsive to the Office Action. Claims 2 to 21 are currently pending in this application. As reflected in the foregoing listing of claims and as discussed in detail herein, in order to advance prosecution and pursuant to the After Final Consideration Program 2.0 ("AFCP 2.0"), clarifying amendments are presented herein to independent Claims 1 and 10 and 16. Also, clarifying amendments to address certain formalities raised in the Office Action are made to dependent Claims 13 and 15. Applicant submits that no new matter is added by the foregoing clarifying claim amendments. Applicant reserves the right to pursue claims similar to the original claims or previously-pending versions of the claims in a continuing application. Accordingly, Claims 2 to 21are presented for further consideration.

Claim Objections

According to the Office Action, Claims 13 and 15 are objected to based on certain formalities. In view of the clarifying amendments made herein, Applicant submits that these objections are now moot and should be withdrawn.

Claim Rejections

Claims 2, 4, 7, 9 to 11, 13, 15 to 17, 19 and 21 stand rejected under pre-AIA 35 U.S.C. §103(a) as being anticipated by U.S. Publ. No. 2001/0049511 to Coleman et al. ("Coleman") Further, Claims 3, 12 and 18 stand rejected under pre-AIA 35 U.S.C. §103(a) as being unpatentable over Coleman in view of U.S. Pat. No. 6,162,232 to Shadduck. In addition, Claims 5, 14 and 20 stand rejected under pre-AIA 35 U.S.C. §103(a) as being unpatentable over Coleman in view of U.S. Publ. No. 2003/0018252 to Duchon et al. Finally, Claims 6 and 8 stand rejected under pre-AIA 35 U.S.C. §103(a) as being unpatentable over Coleman in view of U.S. Publ. No. 2003/0093089 to Greenberg.

Applicant respectfully disagrees with and traverses these rejections. However, pursuant to the AFCP 2.0 program and in an effort to expedite allowance of the present application, Applicant is incorporating certain clarifying amendments to the claims herein. Although not

necessary for patentability, such amendments further clarify and distinguish the claims from the art of record, including Coleman, either alone or in combination.

For example, with respect to independent Claim 2, Applicant submits that the art of record, including Coleman, either alone or in combination with any other reference, fails to teach or suggest, *inter alia*, a skin treatment system comprising a manifold system in communication with a first container and at least a second container, wherein each of the first container and the at least second container is configured to contain a treatment material, the manifold system being positioned in or on a console, a supply conduit placing the manifold system in fluid communication with a handpiece assembly, wherein the handpiece assembly comprises a working end having a skin contact surface, a vacuum source, a waste conduit in fluid communication with the handpiece assembly and the vacuum source to move waste away from the working end of the handpiece assembly during a skin treatment procedure, and at least one control to permit control of a flow of treatment material from the first container and the at least second container through the supply conduit to the handpiece assembly, wherein the vacuum source is configured to create a suction force within the waste conduit and along the working end of the handpiece assembly to help remove waste from the handpiece assembly via the waste conduit and to help transfer at least one treatment material from the manifold system to the handpiece assembly.

Applicant submits that the claims as amended herein are novel, non-obvious and otherwise patentable for at least the reasons provided above. Further, the dependent claims are patentable because they depend from a patentable independent claim and in view of the additional language included therein. Accordingly, Applicant requests that the obviousness rejections presented in the Office Action be withdrawn.

Pursuant to the After Final Consideration Program 2.0 request filed concurrently with this response, Applicant respectfully asserts that the present application is in condition for allowance. If any issues remain, the Examiner is respectfully requested to contact the undersigned.

No Disclaimers or Disavowals

Although the present communication may include alterations to the application or claims, or characterizations of claim scope or referenced art, Applicant is not conceding in this application that previously pending claims are not patentable over the cited references. Rather, any alterations or characterizations are being made to facilitate expeditious prosecution of this application. Applicant reserves the right to pursue at a later date any previously pending or other broader or narrower claims that capture any subject matter supported by the present disclosure, including subject matter found to be specifically disclaimed herein or by any prior prosecution. Accordingly, reviewers of this or any parent, child or related prosecution history shall not reasonably infer that Applicant has made any disclaimers or disavowals of any subject matter supported by the present application.

Co-Pending Applications of Assignee

Applicant wishes to draw the Examiner's attention to the following co-pending U.S. applications of the present application's assignee.

Attorney Docket No.	Country	Appl. No. (Pat. No., if appl.)	Filing Date	Title
EDGE.004A	US	09/648,025 (Pat. No. 6,641,591)	Aug. 25, 2000	INSTRUMENTS AND TECHNIQUES FOR CONTROLLED REMOVAL OF EPIDERMAL LAYERS
EDGE.004C1	US	10/699,747 (Pat. No. 7,789,886)	Nov. 3, 2003	INSTRUMENTS AND TECHNIQUES FOR CONTROLLED REMOVAL OF EPIDERMAL LAYERS
EDGE.004C1DV1	US	11/739,615 (Pat. No. 8,337,513)	Apr. 24, 2007	INSTRUMENTS AND TECHNIQUES FOR CONTROLLED REMOVAL OF EPIDERMAL LAYERS
EDGE.004C2	US	11/417,709 (Pat. No. 8,066,716)	May 3, 2006	INSTRUMENTS AND TECHNIQUES FOR CONTROLLED REMOVAL OF EPIDERMAL LAYERS
EDGE.004C3	US	11/417,396 (Pat. No. 7,678,120)	May 3, 2006	INSTRUMENTS AND TECHNIQUES FOR CONTROLLED REMOVAL OF EPIDERMAL LAYERS
EDGE.004C4	US	13/620,164	Sep. 14, 2012	INSTRUMENTS AND TECHNIQUES FOR CONTROLLED REMOVAL OF EPIDERMAL LAYERS
EDGE.004C5	US	14/702,509 (Pat. No. 9,775,646)	May 1, 2015	DEVICES AND SYSTEMS FOR TREATING THE SKIN USING VACUUM
EDGE.004C6	US	14/702,486 (Pat. No. 9,468,464)	May 1, 2015	METHODS FOR TREATING THE SKIN USING VACUUM
EDGE.004C7	US	15/953,337	Apr. 13, 2018	INSTRUMENTS AND TECHNIQUES FOR CONTROLLED REMOVAL OF EPIDERMAL LAYERS
EDGE.005A	US	11/392,348 (Pat. No. 8,048,089)	Mar. 29, 2006	APPARATUS AND METHODS FOR TREATING THE SKIN
EDGE.005C1	US	13/267,554 (Pat. No. 9,474,886)	Oct. 6, 2011	REMOVABLE TIPS FOR SKIN TREATMENT SYSTEMS
EDGE.005C2	US	14/698,673 (Pat No. 9,550,052)	Apr. 28, 2015	CONSOLE SYSTEM FOR THE TREATMENT OF SKIN

Application No.: 16/517,268
Filing Date: July 19, 2019

Attorney Docket No.	Country	Appl. No. (Pat. No., if appl.)	Filing Date	Title
EDGE.005C3	US	14/698,713 (Pat. No. 9,662,482)	Apr. 28, 2015	METHODS AND SYSTEMS FOR EXTRACTION OF MATERIALS FROM SKIN
EDGE.005C4	US	14/700,789 (Pat. No. 9,814,868)	Apr. 30, 2015	TIP WITH EMBEDDED MATERIALS FOR SKIN TREATMENT
EDGE.005C5	US	15/660,750 (Pat. No. 10/357,641)	Jul. 26, 2017	TIPS FOR SKIN TREATMENT DEVICE
EDGE.005C6	US	15/660,777 (Pat. No. 10/357,642)	Jul. 26, 2017	REMOVABLE TIPS FOR USE WITH SKIN TREATMENT SYSTEMS
EDGE.005C7	**US**	**16/517,268** ***(present application)***	**July 19, 2019**	**DEVICES AND METHODS FOR TREATING SKIN**
EDGE.005C8	US	17/165,820	Feb. 2, 2021	DEVICES AND METHODS FOR TREATING SKIN
EDGE.005C9	US	17/165,807	Feb. 2, 2021	DEVICES AND METHODS FOR TREATING SKIN
EDGE.005DP1	US	29/679299	Feb. 4, 2019	SKIN TREATMENT SYSTEM
EDGE.005DP2	US	29/679,306	Feb. 4, 2019	HANDPIECE ASSEMBLY TIP
EDGE.005DP3	US	29/679302	Feb. 4, 2019	HANDPIECE ASSEMBLY TIP
EDGE.006A	US	09/294,254 (Pat. No. 6,162,232)	Apr. 19, 1999	INSTRUMENTS AND TECHNIQUES FOR HIGH-VELOCITY FLUID ABRASION OF EPIDERMAL LAYERS WITH SKIN COOLING
EDGE.007A	US	09/475,480 (Pat. No. 6,299,620)	Dec. 30, 1999	INSTRUMENTS AND TECHNIQUES FOR INDUCING NEOCOLLAGENESIS IN SKIN TREATMENTS
EDGE.008A	US	09/475,479 (Pat. No. 6,387,103)	Dec. 30, 1999	INSTRUMENTS AND TECHNIQUES FOR INDUCING NEOCOLLAGENESIS IN SKIN TREATMENTS
EDGE.022A	US	11/370,200	Mar. 7, 2006	MICRODERMABRASION METHOD AND APPARATUS
EDGE.044A	US	12/362,353 (Pat. No. 9,056,193)	Jan. 29, 2009	APPARATUS AND METHOD FOR TREATING THE SKIN
EDGE.044C1	US	14/734,995 (Pat. No. 11,020,577)	Jun. 9, 2015	DEVICES AND SYSTEMS FOR TREATING SKIN SURFACES
EDGE.044C2	US	17/332,897	May 27, 2021	DEVICES, SYSTEMS, AND METHODS FOR TREATING THE SKIN
EDGE.044CP1	US	12/832,663 (Pat. No. 8,814,836)	Jul 8, 2010	DEVICES, SYSTEMS AND METHODS FOR TREATING THE SKIN USING TIME-RELEASE SUBSTANCES
EDGE.044P1C1	US	14/455,762 (Pat. No. 9,642,997)	Aug. 8, 2014	DEVICES FOR TREATING SKIN USING TREATMENT MATERIALS LOCATED ALONG A TIP
EDGE.044P1C2	US	15/588,102 (Pat. No. 10,556,097)	May 5, 2017	DEVICES FOR TREATING SKIN USING TREATMENT MATERIALS LOCATED ALONG A TIP
EDGE.044P1C3	US	16/784,850	Feb. 7, 2020	DEVICES AND METHODS FOR TREATING SKIN
EDGE.047A	US	12/346,582 (Pat. No. 8,343,116)	Dec. 30, 2008	APPARATUS AND METHOD FOR TREATING THE SKIN
EDGE.047C1	US	13/620,376 (Pat. No. 9,486,615)	Sep. 14, 2012	MICRODERMABRASION APPARATUS AND METHOD
EDGE.047C2	US	15/344,357 (Pat. No. 10,556,096)	Nov. 4, 2016	DEVICES AND METHODS FOR SKIN TREATMENT
EDGE.047C3	US	16/784,044	Feb. 6, 2020	DEVICES AND METHODS FOR SKIN TREATMENT
EDGE.050A	US	09/540,945 (Pat. No. 6,592,595)	Mar. 31, 2000	MICRODERMABRASION AND SUCTION MASSAGE APPARATUS AND METHOD
EDGE.050C1	US	09/698,409 (Pat. No. 6,527,783)	Oct. 27, 2000	MICRODERMABRASION AND SUCTION MASSAGE APPARATUS AND METHOD
EDGE.050DV1	US	10/177,173 (Pat. No. 6,673,082)	Jun. 20, 2002	MICRODERMABRASION HANDPIECE WITH SUPPLY AND RETURN LUMENS
EDGE.051A	US	10/315,478 (Pat. No. 6,942,649)	Dec. 10, 2002	MICRODERMABRASION FLUID APPLICATION SYSTEM AND METHOD

Attorney Docket No.	Country	Appl. No. (Pat. No., if appl.)	Filing Date	Title
EDGE.052A	US	09/699,220 (Pat. No. 6,629,983)	Oct. 27, 2000	APPARATUS AND METHOD FOR SKIN/SURFACE ABRASION
EDGE.065A	US	14/211,089 (Pat. No. 10,238,812)	Mar. 14, 2014	SKIN TREATMENT SYSTEMS AND METHODS USING NEEDLES
EDGE.065C1	US	16/363,310	Mar. 25, 2019	SKIN TREATMENT SYSTEMS AND METHODS USING NEEDLES
EDGE.077A	US	14/211,290 (Pat. No. 9,566,088)	Mar. 14, 2014	DEVICES, SYSTEMS AND METHODS FOR TREATING THE SKIN
EDGE.077C1	US	15/430,209 (Pat. No. 10,251,675)	Feb. 10, 2017	DEVICES, SYSTEMS AND METHODS FOR TREATING THE SKIN
EDGE.077C2	US	16/376,956	Apr. 5, 2019	DEVICES, SYSTEMS AND METHODS FOR TREATING THE SKIN
EDGE.077NP	US	14/774,641 (Pat. No. 10,172,644)	Sep. 10, 2015	DEVICES, SYSTEMS AND METHODS FOR TREATING THE SKIN
EDGE.077NPC1	US	16/241,572 (Pat. No. 10,993,743)	Jan. 7, 2019	DEVICES, SYSTEMS AND METHODS FOR TREATING THE SKIN
EDGE.077NPC2	US	17/163,128	Jan. 29, 2021	DEVICES, SYSTEMS AND METHODS FOR TREATING THE SKIN
EDGE.077NPC3	US	17/163,199	Jan. 29, 2021	DEVICES, SYSTEMS AND METHODS FOR TREATING THE SKIN
EDGE.077NPC4	US	17/163,237	Jan. 29, 2021	DEVICES, SYSTEMS AND METHODS FOR TREATING THE SKIN
EDGE.077NPC5	US	17/163,240	Jan. 29, 2021	DEVICES, SYSTEMS AND METHODS FOR TREATING THE SKIN
EDGE.090A	US	14/998,375 (Pat. No. 9,498,610)	Dec. 23, 2015	DEVICES AND METHODS FOR TREATING THE SKIN USING A ROLLERBALL OR A WICKING MEMBER
EDGE.090C1	US	15/354,754 (Pat. No. 10,035,007)	Nov. 17, 2016	DEVICES AND METHODS FOR TREATING THE SKIN
EDGE.090C2	US	16/040,397	July 19, 2018	DEVICES AND METHODS FOR TREATING THE SKIN
EDGE.090C3	US	17/164,580	Feb. 1, 2021	DEVICES AND METHODS FOR TREATING THE SKIN
EDGE.090P1	US	15/498,416 (Pat. No. 10,179,229)	Apr. 26, 2017	DEVICES AND METHODS FOR TREATING THE SKIN USING A POROUS MEMBER
EDGE.090P1C1	US	16/246,306	Jan. 11, 2019	DEVICES AND METHODS FOR TREATING THE SKIN USING A POROUS MEMBER
EDGE.091A	US	15/204,939	Jul. 7, 2016	DEVICES, SYSTEMS AND METHODS FOR PROMOTING HAIR GROWTH
EDGE.172DA	US	29/811,066	Oct. 11, 2021	SKIN TREATMENT SYSTEM
EDGE.173DA	US	29/807,430	Sep. 10, 2021	SKIN TREATMENT DEVICE
EDGE.174DA	US	29/807,428	Sep. 10, 2021	CONTAINER FOR A SKIN TREATMENT DEVICE
EDGE.180DA	US	29/811,070	Oct. 11, 2021	SKIN TREATMENT TIP

Copies of these patents and patent applications, including any pending claims, office actions, allowances and/or other communications, are available through PALM and/or PAIR. However, if the Examiner so requests, Applicant will be happy to provide the Examiner with copies of any applications, pending claims, office actions, allowances, communications or any other documents, at any time.

Further, Applicant notes for the record that the claims of the present application are different and may be broader in scope than the claims in any related patent or application. To the extent that any statements made in a related case (such as amendments or characterizations regarding the scope of a claim or prior art) could be construed as a disclaimer of any subject matter supported by the present disclosure, Applicant rescinds and retracts such disclaimer. Accordingly, any listed or referenced prior art may need to be re-visited. Further, any objections or rejections made by the Examiner in the issued and allowed cases identified above may need to be re-visited.

CONCLUSION

In view of the foregoing amendments and remarks, Applicant respectfully submits that the claims are now in condition for allowance. Accordingly, Applicant respectfully requests reconsideration of the claims in light of the foregoing amendments and remarks.

Applicant has made a good faith effort to place the application in condition for immediate allowance. Nevertheless, if any issues remain or otherwise require clarification, the Examiner is respectfully requested to contact Applicant's attorney at the below-listed telephone number to promptly resolve such issues.

Please charge any additional fees, including any fees for additional extension of time, or credit overpayment to Deposit Account No. 11-1410.

Respectfully submitted,

KNOBBE, MARTENS, OLSON & BEAR, LLP

Dated: December 15, 2021

By:/Theodore G. Papagiannis/
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54762753

Electronic Acknowledgement Receipt	
EFS ID:	44516716
Application Number:	16517268
International Application Number:	
Confirmation Number:	9432
Title of Invention:	DEVICES AND METHODS FOR TREATING SKIN
First Named Inventor/Applicant Name:	Roger Ignon
Customer Number:	20995
Filer:	Theodore G. Papagiannis/Wendy Castorena
Filer Authorized By:	Theodore G. Papagiannis
Attorney Docket Number:	EDGE.005C7
Receipt Date:	15-DEC-2021
Filing Date:	19-JUL-2019
Time Stamp:	19:46:42
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1		EDGE005C7_IDS.pdf	73651 ca5820eeb1f3da04e36c245f15eb47a5d1b80b56	yes	6

	Multipart Description/PDF files in .zip description		
	Document Description	**Start**	**End**
	Transmittal Letter	1	5
	Information Disclosure Statement (IDS) Form (SB08)	6	6

Warnings:					
Information:					
2	After Final Consideration Program Request	EDGE005C7_AFCP2.pdf	216142 f9d2f31cfba9e8bb9c58c75952db4999d143cb1c	no	2
Warnings:					
Information:					
3		EDGE005C7_OAR.pdf	77005 44e306e11cabfa75a50502a487de9dfc7a6f9539	yes	11

	Multipart Description/PDF files in .zip description		
	Document Description	**Start**	**End**
	Response After Final Action	1	1
	Claims	2	5
	Applicant Arguments/Remarks Made in an Amendment	6	11

Warnings:	
Information:	
Total Files Size (in bytes):	366798

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

INFORMATION DISCLOSURE STATEMENT

Inventor	:	Ignon et al.
Appl. No.	:	16/517,268
Filed	:	July 19, 2019
For	:	DEVICES AND METHODS FOR TREATING SKIN
Examiner	:	Christian D. Knauss
Art Unit	:	3771
Conf. No.	:	9432

Mail Stop AF
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

References and Listing

Pursuant to 37 CFR 1.56, an Information Disclosure Statement listing references is provided herewith. Copies of any listed foreign and non-patent literature references are being submitted. Identification herein is not an admission that any of the references are prior art to the above captioned application.

No Disclaimers

To the extent that anything in the Information Disclosure Statement or the listed references could be construed as a disclaimer of any subject matter supported by the present application, Applicant hereby rescinds and retracts such disclaimer.

Co-Pending Applications of Assignee

Applicant wishes to draw the Examiner's attention to the following co-pending applications of the present application's assignee.

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EDGE.005C4	US	14/700,789 (Pat. No. 9,814,868)	Apr. 30, 2015	TIP WITH EMBEDDED MATERIALS FOR SKIN TREATMENT
EDGE.005C5	US	15/660,750 (Pat. No. 10/357,641)	Jul. 26, 2017	TIPS FOR SKIN TREATMENT DEVICE
EDGE.005C6	US	15/660,777 (Pat. No. 10/357,642)	Jul. 26, 2017	REMOVABLE TIPS FOR USE WITH SKIN TREATMENT SYSTEMS
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EDGE.005DP2	US	29/679,306	Feb. 4, 2019	HANDPIECE ASSEMBLY TIP
EDGE.005DP3	US	29/679302	Feb. 4, 2019	HANDPIECE ASSEMBLY TIP
EDGE.006A	US	09/294,254 (Pat. No. 6,162,232)	Apr. 19, 1999	INSTRUMENTS AND TECHNIQUES FOR HIGH-VELOCITY FLUID ABRASION OF EPIDERMAL LAYERS WITH SKIN COOLING
EDGE.007A	US	09/475480 (Pat. No. 6,299,620)	Dec. 30, 1999	INSTRUMENTS AND TECHNIQUES FOR INDUCING NEOCOLLAGENESIS IN SKIN TREATMENTS
EDGE.008A	US	09/475479 (Pat. No. 6,387,103)	Dec. 30, 1999	INSTRUMENTS AND TECHNIQUES FOR INDUCING NEOCOLLAGENESIS IN SKIN TREATMENTS
EDGE.022A	US	11/370,200	Mar. 7, 2006	MICRODERMABRASION METHOD AND APPARATUS
EDGE.044A	US	12/362,353 (Pat. No. 9,056,193)	Jan. 29, 2009	APPARATUS AND METHOD FOR TREATING THE SKIN

Attorney Docket No.	Country	Appl. No. (Pat. No., if appl.)	Filing Date	Title
EDGE.044C1	US	14/734,995 (Pat. No. 11,020,577)	Jun. 9, 2015	DEVICES AND SYSTEMS FOR TREATING SKIN SURFACES
EDGE.044C2	US	17/332,897	May 27, 2021	DEVICES, SYSTEMS, AND METHODS FOR TREATING THE SKIN
EDGE.044CP1	US	12/832,663 (Pat. No. 8,814,836)	Jul 8, 2010	DEVICES, SYSTEMS AND METHODS FOR TREATING THE SKIN USING TIME-RELEASE SUBSTANCES
EDGE.044P1C1	US	14/455,762 (Pat. No. 9,642,997)	Aug. 8, 2014	DEVICES FOR TREATING SKIN USING TREATMENT MATERIALS LOCATED ALONG A TIP
EDGE.044P1C2	US	15/588,102 (Pat. No. 10,556,097)	May 5, 2017	DEVICES FOR TREATING SKIN USING TREATMENT MATERIALS LOCATED ALONG A TIP
EDGE.044P1C3	US	16/784,850	Feb. 7, 2020	DEVICES AND METHODS FOR TREATING SKIN
EDGE.047A	US	12/346,582 (Pat. No. 8,343,116)	Dec. 30, 2008	APPARATUS AND METHOD FOR TREATING THE SKIN
EDGE.047C1	US	13/620,376 (Pat. No. 9,486,615)	Sep. 14, 2012	MICRODERMABRASION APPARATUS AND METHOD
EDGE.047C2	US	15/344,357 (Pat. No. 10,556,096)	Nov. 4, 2016	DEVICES AND METHODS FOR SKIN TREATMENT
EDGE.047C3	US	16/784,044	Feb. 6, 2020	DEVICES AND METHODS FOR SKIN TREATMENT
EDGE.050A	US	09/540,945 (Pat. No. 6,592,595)	Mar. 31, 2000	MICRODERMABRASION AND SUCTION MASSAGE APPARATUS AND METHOD
EDGE.050C1	US	09/698,409 (Pat. No. 6,527,783)	Oct. 27, 2000	MICRODERMABRASION AND SUCTION MASSAGE APPARATUS AND METHOD
EDGE.050DV1	US	10/177,173 (Pat. No. 6,673,082)	Jun. 20, 2002	MICRODERMABRASION HANDPIECE WITH SUPPLY AND RETURN LUMENS
EDGE.051A	US	10/315,478 (Pat. No. 6,942,649)	Dec. 10, 2002	MICRODERMABRASION FLUID APPLICATION SYSTEM AND METHOD
EDGE.052A	US	09/699,220 (Pat. No. 6,629,983)	Oct. 27, 2000	APPARATUS AND METHOD FOR SKIN/SURFACE ABRASION
EDGE.065A	US	14/211,089 (Pat. No. 10,238,812)	Mar. 14, 2014	SKIN TREATMENT SYSTEMS AND METHODS USING NEEDLES
EDGE.065C1	US	16/363,310	Mar. 25, 2019	SKIN TREATMENT SYSTEMS AND METHODS USING NEEDLES
EDGE.077A	US	14/211,290 (Pat. No. 9,566,088)	Mar. 14, 2014	DEVICES, SYSTEMS AND METHODS FOR TREATING THE SKIN
EDGE.077C1	US	15/430,209 (Pat. No. 10,251,675)	Feb. 10, 2017	DEVICES, SYSTEMS AND METHODS FOR TREATING THE SKIN
EDGE.077C2	US	16/376,956	Apr. 5, 2019	DEVICES, SYSTEMS AND METHODS FOR TREATING THE SKIN
EDGE.077NP	US	14/774,641 (Pat. No. 10,172,644)	Sep. 10, 2015	DEVICES, SYSTEMS AND METHODS FOR TREATING THE SKIN
EDGE.077NPC1	US	16/241,572 (Pat. No. 10,993,743)	Jan. 7, 2019	DEVICES, SYSTEMS AND METHODS FOR TREATING THE SKIN
EDGE.077NPC2	US	17/163,128	Jan. 29, 2021	DEVICES, SYSTEMS AND METHODS FOR TREATING THE SKIN
EDGE.077NPC3	US	17/163,199	Jan. 29, 2021	DEVICES, SYSTEMS AND METHODS FOR TREATING THE SKIN
EDGE.077NPC4	US	17/163,237	Jan. 29, 2021	DEVICES, SYSTEMS AND METHODS FOR TREATING THE SKIN
EDGE.077NPC5	US	17/163,240	Jan. 29, 2021	DEVICES, SYSTEMS AND METHODS FOR TREATING THE SKIN

Attorney Docket No.	Country	Appl. No. (Pat. No., if appl.)	Filing Date	Title
EDGE.090A	US	14/998,375 (Pat. No. 9,498,610)	Dec. 23, 2015	DEVICES AND METHODS FOR TREATING THE SKIN USING A ROLLERBALL OR A WICKING MEMBER
EDGE.090C1	US	15/354,754 (Pat. No. 10,035,007)	Nov. 17, 2016	DEVICES AND METHODS FOR TREATING THE SKIN
EDGE.090C2	US	16/040,397	July 19, 2018	DEVICES AND METHODS FOR TREATING THE SKIN
EDGE.090C3	US	17/164,580	Feb. 1, 2021	DEVICES AND METHODS FOR TREATING THE SKIN
EDGE.090P1	US	15/498,416 (Pat. No. 10,179,229)	Apr. 26, 2017	DEVICES AND METHODS FOR TREATING THE SKIN USING A POROUS MEMBER
EDGE.090P1C1	US	16/246,306	Jan. 11, 2019	DEVICES AND METHODS FOR TREATING THE SKIN USING A POROUS MEMBER
EDGE.091A	US	15/204,939	Jul. 7, 2016	DEVICES, SYSTEMS AND METHODS FOR PROMOTING HAIR GROWTH
EDGE.172DA	US	29/811,066	Oct. 11, 2021	SKIN TREATMENT SYSTEM
EDGE.173DA	US	29/807,430	Sep. 10, 2021	SKIN TREATMENT DEVICE
EDGE.174DA	US	29/807,428	Sep. 10, 2021	CONTAINER FOR A SKIN TREATMENT DEVICE
EDGE.180DA	US	29/811,070	Oct. 11, 2021	SKIN TREATMENT TIP

Copies of these patents and patent applications, including any pending claims, office actions, allowances and/or other communications, are available through PALM and/or PAIR. However, if the Examiner so requests, Applicant will be happy to provide the Examiner with copies of any applications, pending claims, office actions, allowances, communications or any other documents, at any time.

Further, Applicant notes for the record that the claims of the present application are different and may be broader in scope than the claims in any related patent or application. To the extent that any statements made in a related case (such as amendments or characterizations regarding the scope of a claim or prior art) could be construed as a disclaimer of any subject matter supported by the present disclosure, Applicant rescinds and retracts such disclaimer. Accordingly, any listed or referenced prior art may need to be re-visited. Further, any objections or rejections made by the Examiner in the issued and allowed cases identified above may need to be re-visited.

Timing of Disclosure

This Information Disclosure Statement is being filed after the mailing date of a final action, Notice of Allowance, or other action that closes prosecution. If these references are not officially considered in this application, please place these references in the file in accordance with 37 CFR 1.97(i).

Respectfully submitted,

KNOBBE, MARTENS, OLSON & BEAR, LLP

Dated: December 14, 2021

By: /Theodore G. Papagiannis/
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PTO/SB/06 (09-11)
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PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875	Application or Docket Number 16/517,268	Filing Date 07/19/2019	☐ To be Mailed

ENTITY: ☐ LARGE ☑ SMALL ☐ MICRO

APPLICATION AS FILED - PART I

FOR	(Column 1) NUMBER FILED	(Column 2) NUMBER EXTRA		RATE ($)	FEE ($)
☐ BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A		N/A	
☐ SEARCH FEE (37 CFR 1.16(k), (i), or (m))	N/A	N/A		N/A	
☐ EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A		N/A	
TOTAL CLAIMS (37 CFR 1.16(i))	minus 20 =	*		x $50 =	
INDEPENDENT CLAIMS (37 CFR 1.16(h))	minus 3 =	*		x $230 =	
☐ APPLICATION SIZE FEE (37 CFR 1.16(s))	If the specification and drawings exceed 100 sheets of paper, the application size fee due is $310 ($155 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).				
☐ MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))					
* If the difference in column 1 is less than zero, enter "0" in column 2.				TOTAL	

APPLICATION AS AMENDED - PART II

		(Column 1)		(Column 2)	(Column 3)			
AMENDMENT	12/15/2021	CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA		RATE ($)	ADDITIONAL FEE ($)
	Total (37 CFR 1.16(i))	* 20	Minus	** 20	= 0		x $50 =	0
	Independent (37 CFR 1.16(h))	* 3	Minus	*** 3	= 0		x $240 =	0
	☐ Application Size Fee (37 CFR 1.16(s))							
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))							
							TOTAL ADD'L FEE	0

		(Column 1)		(Column 2)	(Column 3)			
AMENDMENT		CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA		RATE ($)	ADDITIONAL FEE ($)
	Total (37 CFR 1.16(i))	*	Minus	**	=		x $0 =	
	Independent (37 CFR 1.16(h))	*	Minus	***	=		x $0 =	
	☐ Application Size Fee (37 CFR 1.16(s))							
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))							
							TOTAL ADD'L FEE	

* If the entry in column 1 is less than the entry in column 2, write "0" in column 3.	LIE
** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20".	/TRACEY M YOUNG/
*** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3".	
The "Highest Number Previously Paid For" (Total or Independent) is the highest number found in the appropriate box in column 1.	

This collection of information is required by 37 CFR 1.16. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
16/517,268	07/19/2019	Roger Ignon	EDGE.005C7	9432

20995 7590 09/15/2021

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EXAMINER
KNAUSS, CHRISTIAN D

ART UNIT	PAPER NUMBER
3771	

NOTIFICATION DATE	DELIVERY MODE
09/15/2021	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

efiling@knobbe.com
jayna.cartee@knobbe.com

Office Action Summary	Application No. 16/517,268	Applicant(s) Ignon et al.	
	Examiner CHRISTIAN D KNAUSS	Art Unit 3771	AIA (FITF) Status No

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTHS FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☑ Responsive to communication(s) filed on 20 August 2021.

☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on _____.

2a)☑ This action is **FINAL.** 2b) ☐ This action is non-final.

3)☐ An election was made by the applicant in response to a restriction requirement set forth during the interview on _____; the restriction requirement and election have been incorporated into this action.

4)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims*

5) ☑ Claim(s) 2-21 is/are pending in the application.

5a) Of the above claim(s) _____ is/are withdrawn from consideration.

6) ☐ Claim(s) _____ is/are allowed.

7) ☑ Claim(s) 2-21 is/are rejected.

8) ☐ Claim(s) _____ is/are objected to.

9) ☐ Claim(s) _____ are subject to restriction and/or election requirement

* If any claims have been determined allowable, you may be eligible to benefit from the **Patent Prosecution Highway** program at a participating intellectual property office for the corresponding application. For more information, please see http://www.uspto.gov/patents/init_events/pph/index.jsp or send an inquiry to **PPHfeedback@uspto.gov.**

Application Papers

10)☐ The specification is objected to by the Examiner.

11)☑ The drawing(s) filed on 19 July 2019 is/are: a)☑ accepted or b)☐ objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

Priority under 35 U.S.C. § 119

12)☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

Certified copies:

a)☐ All b)☐ Some** c)☐ None of the:

1.☐ Certified copies of the priority documents have been received.

2.☐ Certified copies of the priority documents have been received in Application No. _____.

3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

** See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) ☑ Notice of References Cited (PTO-892)

2) ☑ Information Disclosure Statement(s) (PTO/SB/08a and/or PTO/SB/08b) Paper No(s)/Mail Date _____.

3) ☐ Interview Summary (PTO-413) Paper No(s)/Mail Date _____.

4) ☐ Other: _____.

DETAILED ACTION

Notice of Pre-AIA or AIA Status

1. The present application is being examined under the pre-AIA first to invent provisions.

Response to Amendment

2. Claims 2-21 are pending in the application. Claim 1 has been canceled. Claims 2-21 are new. Claims 2, 7-10, 15, 16, and 21 have been amended.

Information Disclosure Statement

3. The information disclosure statements (IDS) submitted on 3/18/21, 3/19/21, and 8/18/21 are in compliance with the provisions of 37 CFR 1.97. Accordingly, the information disclosure statements are being considered by the examiner.

Claim Objections

3. Claim 13 is objected to because of the following informalities: in line 2, "control a flow" should read --control of a flow--. Appropriate correction is required.

4. Claim 15 is objected to because of the following informalities: in line 2, "the first container and the at least second container" should read --a first container and a second container--. Appropriate correction is required.

5. Claim 15 is objected to because of the following informalities: in line 2, "the first container and the at least second container" should read --a first container and a second container--. Appropriate correction is required.

Claim Rejections - 35 USC § 102

6. The following is a quotation of the appropriate paragraphs of pre-AIA 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

> A person shall be entitled to a patent unless –
>
> (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

7. Claims 2, 4, 7, 9-11, 13, 15-17, 19, and 21 are rejected under pre-AIA 35 U.S.C. 102(b) as being anticipated by Coleman et al. (US 2001/0049511 A1) ("Coleman").

Regarding claim 2, Coleman discloses (Figures 4A-6) a skin treatment system comprising: a manifold system (62A-62D) in communication with a first container (60A) and at least a second container (60B), wherein each of the first container and the at least second container is configured to contain a treatment material (paragraph 0058), the manifold system being positioned in or on a console (Figure 6); a supply conduit (51A) placing the manifold system in fluid communication with a handpiece assembly (50); wherein the handpiece assembly comprises a working end (distal end) having a skin contact surface (53); a vacuum source (65A; paragraph 0061); a waste conduit (51B) in fluid communication with the handpiece assembly and the vacuum source to move waste away from the working end of the handpiece assembly during a skin treatment procedure (paragraph 0061); and at least one control (67) to permit control of a flow of treatment material from the first container and the at least second container through the supply conduit to the handpiece assembly (paragraphs 0059, 0062, 0063); wherein the vacuum source is capable of creating a suction force within the waste

conduit and along the working end of the handpiece assembly to help remove waste from the handpiece assembly via the waste conduit (paragraphs 0055 and 0061).

Regarding claim 4, Coleman discloses (Figures 5A and 5B) a user input device (59A, 59B) to facilitate control of a flow of treatment material from at least one of the first container and the at least second container to the handpiece assembly (paragraphs 0052, 0056, 0063).

Regarding claim 7, Coleman discloses (Figure 6) that the manifold system is in fluid communication with at least four containers (60A, 60B, 60C, 61A).

Regarding claim 9, the treatment materials from the first container and the at least second container are capable of being delivered to the supply conduit sequentially or simultaneously (paragraph 0060).

Regarding claim 10, Coleman discloses (Figures 4-6) a skin treatment system comprising: a manifold system (62A-62D) in communication with at least two containers (60A, 60B) that are configured to be secured to the manifold system (shown secured in Figure 6), wherein each of the at least two containers is configured to contain a treatment material (paragraph 0058); a handpiece assembly (50) configured to contact a skin surface of a subject, wherein a supply conduit (51A) places the manifold system in fluid communication with the handpiece assembly; a vacuum source 65A); and a waste conduit (51B) in fluid communication with the handpiece assembly and the vacuum source to move waste away from the handpiece assembly (paragraph 0061); wherein the system is configured to deliver at least one treatment material from at least one of the at least two containers to the handpiece assembly via the supply conduit (paragraph 0060).

Regarding claim 11, Coleman discloses (Figure 6) that the manifold system is positioned in a console.

Regarding claim 13, Coleman discloses (Figures 5A and 5B) a user input device (59A, 59B) to facilitate control of a flow of treatment material from at least one of the first container and the at least second container to the handpiece assembly (paragraphs 0052, 0056, 0063).

Regarding claim 15, Coleman discloses that treatment materials from the first container and the at least second container are capable of being delivered to the supply conduit sequentially or simultaneously (paragraph 0060).

Regarding claim 16, Coleman discloses (Figures 4-6) a skin treatment system comprising: a manifold system (62A-62D) in communication with at least two containers (60A, 60B), wherein each of the at least two containers is configured to contain a treatment material (paragraph 0058); a handpiece assembly (50) configured to contact a skin surface of a subject; a supply conduit (51A) placing the manifold system, and thus the at least two containers, in fluid communication with the handpiece assembly; and a waste conduit (51B) in fluid communication with the handpiece assembly and a vacuum source (65A) to move waste away from the handpiece assembly; and wherein the system is configured to deliver treatment materials from at least one of the at least two containers to the handpiece assembly via the supply conduit (paragraph 0060).

Regarding claim 17, Coleman discloses (Figure 6) that the manifold system is positioned in a console.

Regarding claim 19, Coleman discloses (Figures 5A and 5B) a user input device (59A, 59B) to facilitate control of a flow of treatment material from at least one of the at least two containers to the handpiece assembly (paragraphs 0052, 0056, 0063).

Regarding claim 21, Coleman discloses that treatment materials from the first container and the at least second container are capable of being delivered to the supply conduit sequentially or simultaneously (paragraph 0060).

Claim Rejections - 35 USC § 103

8. The following is a quotation of pre-AIA 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

> (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

9. Claims 3, 12, and 18 are rejected under pre-AIA 35 U.S.C. 103(a) as being unpatentable over Coleman et al. (US 2001/0049511 A1) ("Coleman") in view of Shadduck (US 6,162,232).

Regarding claims 3, 12, and 18, Coleman discloses the invention substantially as claimed. However, Coleman fails to explicitly disclose a computing device configured to control at least one function of the system.

In the same field of endeavor, Shadduck discloses (Figures 2A and 2B) a skin treatment system (5) comprising a computing system (25) to control and modulate the introduction and termination fluid flows into the working end of a handpiece assembly,

as well as aspiration power settings, to insure optimal abrasion effects and the capture of spent fluids (Column 5, lines 33-37).

It would have been obvious to one having ordinary skill in the art before the invention was made to modify the skin treatment system disclosed by Coleman to comprise a computing device control and modulate the introduction and termination fluid flows into the working end of a handpiece assembly, as well as aspiration power settings, as taught by Shadduck. This modification would insure optimal abrasion effects and the capture of spent fluids (Shadduck, Column 5, lines 33-37).

10. Claims 5, 14, and 20 are rejected under pre-AIA 35 U.S.C. 103(a) as being unpatentable over Coleman et al. (US 2001/0049511 A1) ("Coleman") in view of Duchon et al. (US 2003/0018252 A1) ("Duchon").

Regarding claims 5, 14, and 20, Coleman discloses the invention substantially as claimed. However, Coleman fails to disclose that the user input device comprises a touch screen.

Duchon teaches (Figures 9A, 9B, 11A) that it was well-known in the art at the time the invention was made for a console to include a touch screen user input (432). Duchon teaches that a touch screen is an equivalent structure to a selector dial, keypad, button, etc. (paragraph 0123).

It would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the user input device disclosed by Coleman to be a touch screen user input on the console, as taught by Duchon. Duchon teaches that a touch screen is an equivalent structure to an input knob, button, keypad, dial, etc. that is

known in the art for entering control settings and monitoring the operational state of a console system (Duchon, paragraph 0123).

11. Claims 6 and 8 are rejected under pre-AIA 35 U.S.C. 103(a) as being unpatentable over Coleman et al. (US 2001/0049511 A1) ("Coleman") in view of Greenberg (US 2003/0093089 A1).

Regarding claim 6, Coleman discloses the invention substantially as claimed. However, Coleman fails to disclose a display.

In the same field of endeavor, Greenberg teaches (Figures 1-6) a skin treatment system with a console (10) comprising a display (66).

It would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the console disclosed by Coleman to include a display, as taught by Greenberg. This modification would allow the operator to monitor parameters of the procedure, such as the amount of time the machine has been used for (Greenberg, paragraph 0063).

Regarding claim 8, Coleman discloses the invention substantially as claimed. However, Coleman fails to explicitly disclose that the first container and the at least second container are configured to releasably couple to the manifold system.

In the same field of endeavor, Greenberg discloses (Figures 1 and 2) a system for performing a skin treatment procedure, the system comprising: a console (10) including a manifold, a container (18), a handpiece assembly (16), a supply conduit (20), and a waste conduit (20). Greenberg teaches that the container is releasably

coupled to the manifold to allow an operator to change the treatment material at his/her discretion (paragraph 0079).

It would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the containers disclosed by Coleman to be configured to releasably couple to the manifold system, as taught by Greenberg. This modification would allow the operator to change the treatment material at his/her discretion (Greenberg, paragraph 0079).

Response to Arguments

12. Applicant's arguments filed 8/20/21 have been fully considered but they are not persuasive. In the reply, the Applicant states that Coleman fails to teach or suggest a skin treatment system comprising the features of claim 2. The Examiner respectfully disagrees (see rejections above). Claim 2, as currently written, is anticipated by the Coleman reference.

Conclusion

13. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not

mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

14. Any inquiry concerning this communication or earlier communications from the examiner should be directed to CHRISTIAN D KNAUSS whose telephone number is (571)272-8641. The examiner can normally be reached on M-F 12:30-8:30.

Examiner interviews are available via telephone, in-person, and video conferencing using a USPTO supplied web-based collaboration tool. To schedule an interview, applicant is encouraged to use the USPTO Automated Interview Request (AIR) at http://www.uspto.gov/interviewpractice.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Darwin Erezo can be reached on 571-272-4695. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see https://ppair-my.uspto.gov/pair/PrivatePair. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access

to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/C.D.K/
Examiner, Art Unit 3771
/ERICH G HERBERMANN/
Primary Examiner, Art Unit 3771

Notice of References Cited	Application/Control No. 16/517,268	Applicant(s)/Patent Under Reexamination Ignon et al.	
	Examiner CHRISTIAN D KNAUSS	Art Unit 3771	Page 1 of 1

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	CPC Classification	US Classification
*	A	US-6162232-A	12-2000	Shadduck; John H.	A61B17/545	604/289
*	B	US-20030018252-A1	01-2003	Duchon, Douglas J.	A61B6/481	600/432
*	C	US-20030093089-A1	05-2003	Greenberg, Ronald Allan	A61B17/545	606/131
	D					
	E					
	F					
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	I					
	J					
	K					
	L					
	M					

FOREIGN PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	CPC Classification
	N					
	O					
	P					
	Q					
	R					
	S					
	T					

NON-PATENT DOCUMENTS

*		Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)
	U	
	V	
	W	
	X	

*A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).)
Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.

Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	16/517,268	Ignon et al.
	Examiner	Art Unit
	CHRISTIAN D KNAUSS	3771

CPC - Searched*		
Symbol	**Date**	**Examiner**
A61B17/50, 54, 545	03/12/2021	CDK
A61B2017/00017, 00199, 00743, 00747, 00761	03/12/2021	CDK
A61B19/0248	03/12/2021	CDK
A61B2019/025	03/12/2021	CDK
A61B2217/005, 007	03/12/2021	CDK
A61M35/003	03/12/2021	CDK
A61N5/0616	03/12/2021	CDK
A61B50/10, 13	03/12/2021	CDK

CPC Combination Sets - Searched*		
Symbol	**Date**	**Examiner**

US Classification - Searched*			
Class	**Subclass**	**Date**	**Examiner**

* See search history printout included with this form or the SEARCH NOTES box below to determine the scope of the search.

/C.D.K/ Examiner, Art Unit 3771	/ERICH G HERBERMANN/ Primary Examiner, Art Unit 3771

Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	16/517,268	Ignon et al.
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	CHRISTIAN D KNAUSS	3771

Search Notes		
Search Notes	**Date**	**Examiner**
Performed inventor and assignee searches	03/12/2021	CDK
Performed SEARCH	03/12/2021	CDK
Performed backward/forward searches	03/12/2021	CDK
Performed CPC subgroup/text searches and combinations	03/12/2021	CDK
Updated SEARCH	09/08/2021	CDK

Interference Search			
US Class/CPC Symbol	**US Subclass/CPC Group**	**Date**	**Examiner**

/C.D.K/ Examiner, Art Unit 3771	/ERICH G HERBERMANN/ Primary Examiner, Art Unit 3771

INFORMATION DISCLOSURE STATEMENT

Inventor	:	Ignon et al.
Appl. No.	:	16/517,268
Filed	:	July 19, 2019
For	:	DEVICES AND METHODS FOR TREATING SKIN
Examiner	:	Christian D. Knauss
Art Unit	:	3771
Conf. No.	:	9432

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Background

Note that Applicant submitted an Information Disclosure Statement ("IDS") on March 18, 2021 for the subject application. In the transmittal of that IDS, Applicant inadvertently indicated that the present application claims the priority benefit of U.S. Pat. Appl. No. 15/660,777. However, the present application is a continuation of another application in the patent family, i.e., U.S. Pat. Appl. No. 15/660,750. Accordingly, Applicant is filing the present IDS to correct this oversight.

References and Listing

Pursuant to 37 CFR 1.56, an IDS listing references is provided herewith. References numbered 1 to 102, 104 to 277, 281, 284 to 295, 297 to 345, 347 to 384, 386 to 415 and 422 to 476 are of record in U.S. patent application No. 15/660,750, filed July 26, 2017, which is relied upon for an earlier filing date under 35 USC 120. Accordingly, copies of any foreign or non-patent literature references cited in the parent application are not being submitted pursuant to 37 CFR 1.98(d). If the Examiner would like additional information regarding any references or if anything is unclear, the Examiner is invited to contact the undersigned for assistance. Identification herein is not an admission that any of the references are prior art to the above captioned application.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /C.D.K/

No Disclaimers

To the extent that anything in the IDS or the listed references could be construed as a disclaimer of any subject matter supported by the present application, Applicant hereby rescinds and retracts such disclaimer.

Co-Pending Applications of Assignee

Applicant wishes to draw the Examiner's attention to the following co-pending applications of the present application's assignee.

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EDGE.004C1	US	10/699,747 (Pat. No. 7,789,886)	Nov. 3, 2003	INSTRUMENTS AND TECHNIQUES FOR CONTROLLED REMOVAL OF EPIDERMAL LAYERS
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EDGE.004C2	US	11/417,709 (Pat. No. 8,066,716)	May 3, 2006	INSTRUMENTS AND TECHNIQUES FOR CONTROLLED REMOVAL OF EPIDERMAL LAYERS
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EDGE.004C6	US	14/702,486 (Pat. No. 9,468,464)	May 1, 2015	METHODS FOR TREATING THE SKIN USING VACUUM
EDGE.004C7	US	15/953,337	Apr. 13, 2018	INSTRUMENTS AND TECHNIQUES FOR CONTROLLED REMOVAL OF EPIDERMAL LAYERS
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EDGE.005C1	US	13/267,554 (Pat. No. 9,474,886)	Oct. 6, 2011	REMOVABLE TIPS FOR SKIN TREATMENT SYSTEMS
EDGE.005C2	US	14/698,673 (Pat No. 9,550,052)	Apr. 28, 2015	CONSOLE SYSTEM FOR THE TREATMENT OF SKIN
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EDGE.005C5	US	15/660,750 (Pat. No. 10/357,641)	Jul. 26, 2017	TIPS FOR SKIN TREATMENT DEVICE
EDGE.005C6	US	15/660,777 (Pat. No. 10/357,642)	Jul. 26, 2017	REMOVABLE TIPS FOR USE WITH SKIN TREATMENT SYSTEMS

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /C.D.K/

Attorney Docket No.	Country	App. No. (Pat. No., if appl.)	Filing Date	Title
EDGE.005C7	**US**	**16/517,268 *(present application)***	**Jul. 19, 2019**	**DEVICES AND METHODS FOR TREATING SKIN**
EDGE.005C8	US	17/165,820	Feb. 2, 2021	DEVICES AND METHODS FOR TREATING SKIN
EDGE.005C9	US	17/165,807	Feb. 2, 2021	DEVICES AND METHODS FOR TREATING SKIN
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EDGE.005DP3	US	29/679302	Feb. 4, 2019	HANDPIECE ASSEMBLY TIP
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EDGE.050C1	US	09/698,409 (Pat. No. 6,527,783)	Oct. 27, 2000	MICRODERMABRASION AND SUCTION MASSAGE APPARATUS AND METHOD
EDGE.050DV1	US	10/177,173 (Pat. No. 6,673,082)	Jun. 20, 2002	MICRODERMABRASION HANDPIECE WITH SUPPLY AND RETURN LUMENS
EDGE.051A	US	10/315,478 (Pat. No. 6,942,649)	Dec. 10, 2002	MICRODERMABRASION FLUID APPLICATION SYSTEM AND METHOD
EDGE.052A	US	09/699,220 (Pat. No. 6,629,983)	Oct. 27, 2000	APPARATUS AND METHOD FOR SKIN/SURFACE ABRASION
EDGE.065A	US	14/211,089 (Pat. No. 10,238,812)	Mar. 14, 2014	SKIN TREATMENT SYSTEMS AND METHODS USING NEEDLES
EDGE.065C1	US	16/363,310	Mar. 25, 2019	SKIN TREATMENT SYSTEMS AND METHODS USING NEEDLES
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Attorney Docket No.	Country	App. No. (Pat. No., if appl.)	Filing Date	Title
EDGE.077C1	US	15/430,209 (Pat. 10,251,675)	Feb. 10, 2017	DEVICES, SYSTEMS AND METHODS FOR TREATING THE SKIN
EDGE.077C2	US	16/376,956	Apr. 5, 2019	DEVICES, SYSTEMS AND METHODS FOR TREATING THE SKIN
EDGE.077NP	US	14/774,641 (Pat. 10,172,644)	Sep. 10, 2015	DEVICES, SYSTEMS AND METHODS FOR TREATING THE SKIN
EDGE.077NPC1	US	16/241,572	Jan. 7, 2019	DEVICES, SYSTEMS AND METHODS FOR TREATING THE SKIN
EDGE.077NPC2	US	17/163,128	Jan. 29, 2021	DEVICES, SYSTEMS AND METHODS FOR TREATING THE SKIN
EDGE.077NPC3	US	17/163,199	Jan. 29, 2021	DEVICES, SYSTEMS AND METHODS FOR TREATING THE SKIN
EDGE.077NPC4	US	17/163,237	Jan. 29, 2021	DEVICES, SYSTEMS AND METHODS FOR TREATING THE SKIN
EDGE.077NPC5	US	17/163,240	Jan. 29, 2021	DEVICES, SYSTEMS AND METHODS FOR TREATING THE SKIN
EDGE.090A	US	14/998,375 (Pat. No. 9,498,610)	Dec. 23, 2015	DEVICES AND METHODS FOR TREATING THE SKIN USING A ROLLERBALL OR A WICKING MEMBER
EDGE.090C1	US	15/354,754 (Pat. No. 10,035,007)	Nov. 17, 2016	DEVICES AND METHODS FOR TREATING THE SKIN
EDGE.090C2	US	16/040,397	Jul. 19, 2018	DEVICES AND METHODS FOR TREATING THE SKIN
EDGE.090C3	US	17/164,580	Feb. 1, 2021	DEVICES AND METHODS FOR TREATING THE SKIN
EDGE.090P1	US	15/498,416 (Pat. No. 10,179,229)	Apr. 26, 2017	DEVICES AND METHODS FOR TREATING THE SKIN USING A POROUS MEMBER
EDGE.090P1C1	US	16/246306	Jan. 11, 2019	DEVICES AND METHODS FOR TREATING THE SKIN USING A POROUS MEMBER
EDGE.091A	US	15/204,939	Jul. 7, 2016	DEVICES, SYSTEMS AND METHODS FOR PROMOTING HAIR GROWTH

Timing of Disclosure

This IDS is being filed before the receipt of a First Office Action on the merits, and presumably no fee is required. If a First Office Action on the merits was mailed before the mailing date of this Statement, the Commissioner is authorized to charge the fee set forth in 37 CFR 1.17(p) to Deposit Account No. 11-1410.

Respectfully submitted,

KNOBBE, MARTENS, OLSON & BEAR, LLP

Dated: March 19, 2021

By: /Theodore G. Papagiannis/
Theodore G. Papagiannis
Registration No. 61546
Registered Practitioner
(949) 760-0404

/CHRISTIAN D KNAUSS/
09/08/2021

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ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /C.D.K/

INFORMATION DISCLOSURE STATEMENT

Inventor	:	Ignon et al.
Appl. No.	:	16/517,268
Filed	:	July 19, 2019
For	:	DEVICES AND METHODS FOR TREATING SKIN
Examiner	:	Christian D. Knauss
Art Unit	:	3771
Conf. No.	:	9432

Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

References and Listing

Pursuant to 37 CFR 1.56, an Information Disclosure Statement listing references is provided herewith. References numbered 1 to 102, 104 to 277, 284 to 295, 297 to 345, 347 to 384, 386 to 415 and 422 to 476 are of record in U.S. patent application No. 15/660,777, filed July 26, 2017, which is relied upon for an earlier filing date under 35 USC 120. Accordingly, copies of any foreign or non-patent literature references cited in the parent application are not being submitted pursuant to 37 CFR 1.98(d). If the Examiner would like additional information regarding any references or if anything is unclear, the Examiner is invited to contact the undersigned for assistance. Identification herein is not an admission that any of the references are prior art to the above captioned application.

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EDGE.077NPC3	US	17/163,199	Jan. 29, 2021	DEVICES, SYSTEMS AND METHODS FOR TREATING THE SKIN
EDGE.077NPC4	US	17/163,237	Jan. 29, 2021	DEVICES, SYSTEMS AND METHODS FOR TREATING THE SKIN

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Attorney Docket No.	Country	App. No. (Pat. No., if appl.)	Filing Date	Title
EDGE.077NPC5	US	17/163,240	Jan. 29, 2021	DEVICES, SYSTEMS AND METHODS FOR TREATING THE SKIN
EDGE.090A	US	14/998,375 (Pat. No. 9,498,610)	Dec. 23, 2015	DEVICES AND METHODS FOR TREATING THE SKIN USING A ROLLERBALL OR A WICKING MEMBER
EDGE.090C1	US	15/354,754 (Pat. No. 10,035,007)	Nov. 17, 2016	DEVICES AND METHODS FOR TREATING THE SKIN
EDGE.090C2	US	16/040,397	Jul. 19, 2018	DEVICES AND METHODS FOR TREATING THE SKIN
EDGE.090C3	US	17/164,580	Feb. 1, 2021	DEVICES AND METHODS FOR TREATING THE SKIN
EDGE.090P1	US	15/498,416 (Pat. No. 10,179,229)	Apr. 26, 2017	DEVICES AND METHODS FOR TREATING THE SKIN USING A POROUS MEMBER
EDGE.090P1C1	US	16/246306	Jan. 11, 2019	DEVICES AND METHODS FOR TREATING THE SKIN USING A POROUS MEMBER
EDGE.091A	US	15/204,939	Jul. 7, 2016	DEVICES, SYSTEMS AND METHODS FOR PROMOTING HAIR GROWTH

Timing of Disclosure

This Information Disclosure Statement is being filed before the receipt of a First Office Action on the merits, and presumably no fee is required. If a First Office Action on the merits was mailed before the mailing date of this Statement, the Commissioner is authorized to charge the fee set forth in 37 CFR 1.17(p) to Deposit Account No. 11-1410.

Respectfully submitted,

KNOBBE, MARTENS, OLSON & BEAR, LLP

Dated: March 18, 2021

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/CHRISTIAN D KNAUSS/
09/08/2021

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PTO/SB/08 Equivalent

INFORMATION DISCLOSURE STATEMENT BY APPLICANT	Application No.	16/517,268
	Filing Date	July 19, 2019
	First Named Inventor	Ignon, Roger
	Art Unit	3771
(Multiple sheets used when necessary)	Examiner	Christian D. Knauss
SHEET 1 OF 19	Attorney Docket No.	EDGE.005C7

U.S. PATENT DOCUMENTS					
Examiner Initials	Cite No.	Document Number *Number - Kind Code (if known)* Example: 1,234,567 B1	Publication Date MM-DD-YYYY	Name of Patentee or Applicant	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear
	1	1,651,585	12-06-1927	Clair	
	2	2,608,032	08-26-1952	Garver	
	3	2,631,583	03-17-1953	Lavergne	
	4	2,701,559	02-05-1955	Cooper	
	5	2,712,823	07-12-1955	Kurtin	
	6	2,867,214	01-06-1959	Wilson	
	7	2,881,763	04-14-1959	Robbins	
	8	2,921,585	01-19-1960	Schumann	
	9	3,037,509	06-05-1962	Schutz	
	10	3,085,573	04-16-1963	Meyer et al.	
	11	3,214,869	11-02-1965	Stryker	
	12	3,468,079	09-23-1969	Kaufman	
	13	3,476,112	11-04-1969	Elstein	
	14	3,481,677	12-02-1969	Abrahamson	
	15	3,505,993	04-14-1970	Lewes et al.	
	16	3,574,239	04-13-1971	Sollerud	
	17	3,715,838	02-13-1973	Young et al.	
	18	3,865,352	02-11-1975	Nelson et al.	
	19	3,866,264	02-18-1975	Engquist	
	20	3,948,265	04-06-1976	Al Ani	
	21	3,964,212	06-22-1976	Karden	
	22	3,968,789	07-13-1976	Simoncini	
	23	3,977,084	08-31-1976	Sloan	
	24	4,121,388	10-24-1978	Wilson	
	25	4,155,721	05-22-1979	Fletcher	
	26	4,170,821	10-16-1979	Booth	
	27	4,182,329	01-08-1980	Smit et al.	

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SHEET 2 OF 19	Attorney Docket No.	EDGE.005C7

U.S. PATENT DOCUMENTS					
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	28	4,203,431	05-20-1980	Abura et al.	
	29	4,216,233	08-05-1980	Stein	
	30	4,225,254	09-30-1980	Holberg et al.	
	31	4,289,158	09-15-1981	Nehring	
	32	4,299,219	11-10-1981	Norris, Jr.	
	33	4,378,804	04-05-1983	Cortese	
	34	4,560,373	12-24-1985	Sugino et al.	
	35	4,646,480	03-03-1987	Williams	
	36	4,646,482	03-03-1987	Chitjian	
	37	4,655,743	04-07-1987	Hyde	
	38	4,676,749	06-30-1987	Mabille	
	39	4,706,676	11-17-1987	Peck	
	40	4,718,467	01-12-1988	Di Gianfilippo et al.	
	41	4,754,756	07-05-1988	Shelanski	
	42	4,757,814	07-19-1988	Wang et al.	
	43	4,764,362	08-16-1988	Barchas	
	44	4,795,421	01-03-1989	Blasius, Jr., et al.	
	45	4,811,734	03-14-1989	McGurk-Burleson et al	
	46	4,836,192	06-06-1989	Abbate	
	47	4,875,287	10-24-1989	Creasy et al.	
	48	4,886,078	12-12-1989	Shiffman	
	49	4,887,994	12-12-1989	Bedford	
	50	4,900,316	02-13-1990	Yamamoto	
	51	4,917,086	04-17-1990	Feltovich et al.	
	52	4,925,450	05-15-1990	Imonti et al.	
	53	4,940,350	07-10-1990	Kim	
	54	4,957,747	09-18-1990	Stiefel	

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SHEET 3 OF 19	Attorney Docket No.	EDGE.005C7

U.S. PATENT DOCUMENTS					
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	55	5,006,004	04-09-1991	Dirksing et al.	
	56	5,006,339	04-09-1991	Bargery et al.	
	57	5,012,797	05-07-1991	Liang et al.	
	58	5,035,089	07-30-1991	Tillman et al.	
	59	5,037,431	08-06-1991	Summers et al.	
	60	5,037,432	08-06-1991	Molinari	
	61	5,054,339	10-08-1991	Yacowitz	
	62	5,100,412	03-31-1992	Rosso	
	63	5,100,424	03-31-1992	Jang	
	64	5,119,839	06-09-1992	Rudolph	
	65	5,122,153	06-16-1992	Harrel	
	66	5,171,215	12-15-1992	Flanagan	
	67	5,192,269	03-09-1993	Poli et al.	
	68	5,207,234	05-04-1993	Rosso	
	69	5,222,956	06-29-1993	Waldron	
	70	5,242,433	09-07-1993	Smith et al.	
	71	5,254,109	10-19-1993	Smith et al.	
	72	5,368,581	11-29-1994	Smith et al.	
	73	5,387,215	02-07-1995	Fisher	
	74	5,391,151	02-21-1995	Wilmot	
	75	5,417,674	05-23-1995	Smith et al.	
	76	5,419,772	05-30-1995	Teitz et al.	
	77	5,441,490	08-15-1995	Svedman	
	78	5,460,620	10-24-1995	Smith et al.	
	79	5,470,323	11-28-1995	Smith et al.	
	80	5,484,427	01-16-1996	Gibbons	
	81	5,490,736	02-13-1996	Haber et al.	

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SHEET 4 OF 19	Attorney Docket No.	EDGE.005C7

U.S. PATENT DOCUMENTS					
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	82	5,512,044	04-30-1996	Duer	
	83	5,562,642	10-08-1996	Smith et al.	
	84	5,562,643	10-08-1996	Johnson	
	85	5,611,687	03-18-1997	Wagner	
	86	5,612,797	03-18-1997	Clarke	
	87	5,674,235	10-07-1997	Parisi	
	88	5,676,643	10-14-1997	Cann et al.	
	89	5,676,648	10-14-1997	Henley	
	90	5,683,971	11-04-1997	Rose et al.	
	91	5,697,920	12-16-1997	Gibbons	
	92	5,707,383	01-13-1998	Bays	
	93	5,713,785	02-03-1998	Nishio	
	94	5,735,833	04-07-1998	Olson	
	95	5,759,185	06-02-1998	Grinberg	
	96	5,762,640	06-09-1998	Kajiwara et al.	
	97	5,779,519	07-14-1998	Oliver	
	98	5,800,446	09-01-1998	Banuchi	
	99	5,807,353	09-15-1998	Schmitz	
	100	5,810,842	09-22-1998	Di Fiore at al.	
	101	5,813,416	09-29-1998	Rudolph	
	102	5,817,050	10-06-1998	Klein	
	103	5,834,510	11-10-1998	Yu et al.	
	104	5,846,215	12-08-1998	Zygmont	
	105	5,848,998	12-15-1998	Marasco, Jr.	
	106	5,857,995	01-12-1999	Thomas et al.	
	107	5,861,142	01-19-1999	Schick	
	108	5,873,881	02-23-1999	McEwen et al.	

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U.S. PATENT DOCUMENTS					
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	109	5,879,323	03-09-1999	Henley	
	110	5,882,201	03-16-1999	Salem	
	111	5,885,260	03-23-1999	Mehl, Sr., et al.	
	112	5,908,401	06-01-1999	Henley	
	113	5,919,152	07-06-1999	Zygmont	
	114	5,954,730	09-21-1999	Bernabei	
	115	5,971,999	10-26-1999	Naldoni	
	116	5,980,555	11-09-1999	Barbut et al.	
	117	6,019,749	02-01-2000	Fields et al.	
	118	6,024,733	02-15-2000	Eggers et al.	
	119	6,027,402	02-22-2000	Oliver	
	120	6,039,745	03-21-2000	Di Fiore et al.	
	121	6,042,552	03-28-2000	Cornier	
	122	6,080,165	06-27-2000	DeJacma	
	123	6,080,166	06-27-2000	McEwen et al.	
	124	6,090,085	07-18-2000	Mehl, Sr. Et al.	
	125	6,120,512	09-19-2000	Bernabei	
	126	6,023,639	02-08-2000	Hakky et al.	
	127	6,129,701	10-10-2000	Cimino	
	128	6,136,008	10-24-2000	Becker et al.	
	129	6,139,553	10-31-2000	Dotan	
	130	6,139,554	10-31-2000	Karkar et al.	
	131	6,142,155	11-07-2000	Rudolph	
	132	6,149,634	11-21-2000	Bernabei	
	133	6,159,226	12-12-2000	Kim	
	134	6,162,218	12-19-2000	Elbrecht et al.	
	135	6,162,232	12-19-2000	Shadduck	

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SHEET 6 OF 19	Attorney Docket No.	EDGE.005C7

U.S. PATENT DOCUMENTS					
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	136	6,165,059	12-26-2000	Parkin et al.	
	137	6,183,451	02-06-2001	Mehl, Sr., et al.	
	138	6,183,483	02-06-2001	Chang	
	139	6,193,589	02-27-2001	Khalaj	
	140	6,196,982	03-06-2001	Ball	
	141	6,231,593	05-15-2001	Meserol	
	142	6,235,039	05-22-2001	Parkin et al.	
	143	6,238,275	05-29-2001	Metcalf et al.	
	144	6,241,739	06-05-2001	Waldron	
	145	6,264,666	07-24-2001	Coleman et al.	
	146	6,277,128	08-21-2001	Muldner	
	147	6,283,978	09-04-2001	Cheski et al.	
	148	6,299,620	10-09-2001	Shadduck	
	149	6,306,119	10-23-2001	Weber et al.	
	150	6,306,147	10-23-2001	Bernabei et al.	
	151	6,322,548	11-27-2001	Payne et al.	
	152	6,322,568	11-27-2001	Bernabei et al.	
	153	6,332,886	12-25-2001	Green et al.	
	154	6,368,333	04-09-2002	Bernabei et al.	
	155	6,387,103	05-14-2002	Shadduck	
	156	6,401,289	06-11-2002	Herbert	
	157	6,409,736	06-25-2002	Bernabei	
	158	6,410,599	06-25-2002	Johnson	
	159	6,414,032	07-02-2002	Johnson	
	160	6,420,431	07-16-2002	Johnson	
	161	6,423,078	07-23-2002	Bays et al.	
	162	6,423,750	07-23-2002	Johnson	

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U.S. PATENT DOCUMENTS					
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	163	RE 37,796	07-23-2002	Henley	
	164	6,432,113	08-13-2002	Parkin et al.	
	165	6,432,114	08-13-2002	Rosso	
	166	6,471,712	10-29-2002	Burres	
	167	6,477,410	11-05-2002	Henley et al.	
	168	6,482,212	11-19-2002	Bernabei et al.	
	169	6,488,646	12-03-2002	Zygmont	
	170	6,494,856	12-17-2002	Zygmont	
	171	6,500,183	12-31-2002	Waldron	
	172	6,503,256	01-07-2003	Parkin et al.	
	173	6,511,486	01-28-2003	Mercier et al.	
	174	6,514,262	02-04-2003	Di Fiore, et al.	
	175	6,527,783	03-04-2003	Ignon	
	176	6,535,761	03-18-2003	Bernabei	
	177	6,540,757	04-01-2003	Hruska et al.	
	178	6,562,013	05-13-2003	Marasco, Jr.	
	179	6,562,050	05-13-2003	Owen	
	180	6,564,093	05-13-2003	Ostrow et al.	
	181	6,565,535	05-20-2003	Zaias et al.	
	182	6,582,442	06-24-2003	Simon et al.	
	183	6,589,218	07-08-2003	Garcia	
	184	6,592,595	07-15-2003	Mallett et al.	
	185	6,629,983	10-07-2003	Ignon	
	186	6,641,591	11-04-2003	Shadduck	
	187	6,645,184	11-11-2003	Zelickson et al.	
	188	6,652,888	11-25-2003	Rhoades	
	189	6,666,874	12-23-2003	Heitzmann et al.	

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U.S. PATENT DOCUMENTS					
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	190	6,673,081	01-06-2004	Tavger et al.	
	191	6,673,082	01-06-2004	Mallett et al.	
	192	6,685,853	02-03-2004	Angelopoulous et al.	
	193	6,687,537	02-03-2004	Bernabei	
	194	6,695,853	02-24-2004	Karasiuk	
	195	6,735,470	05-11-2004	Henley et al.	
	196	6,743,211	06-01-2004	Prausnitz et al.	
	197	6,743,215	06-01-2004	Bernabei	
	198	6,764,493	07-20-2004	Weber et al.	
	199	6,800,083	10-05-2004	Hiblar et al.	
	200	6,869,611	03-22-2005	Kligman et al.	
	201	6,905,487	06-14-2005	Zimmerman	
	202	6,911,031	06-28-2005	Muldner	
	203	6,926,681	08-09-2005	Ramey, et al.	
	204	6,942,649	09-13-2005	Ignon et al.	
	205	6,960,206	11-01-2005	Keane	
	206	7,001,355	02-21-2006	Nunomura et al.	
	207	7,004,933	02-28-2006	McDaniel	
	208	7,044,938	05-16-2006	La Bianco et al.	
	209	7,052,503	05-30-2006	Bernabei	
	210	7,069,073	06-27-2006	Henley et al.	
	211	7,070,488	07-04-2006	Suissa et al.	
	212	7,083,580	08-01-2006	Bernabei	
	213	7,087,063	08-08-2006	Carson et al.	
	214	7,094,252	08-22-2006	Koop	
	215	7,115,275	10-03-2006	Clarot et al.	
	216	7,135,011	11-14-2006	Powers et al.	

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	217	7,153,311	12-26-2006	Chung	
	218	7,197,359	03-27-2007	Tokudome et al.	
	219	7,198,623	04-03-2007	Fischer et al.	
	220	7,232,444	06-19-2007	Chang	
	221	7,241,208	07-10-2007	Suissa et al.	
	222	7,276,051	10-02-2007	Henley et al.	
	223	7,293,930	11-13-2007	Chuang	
	224	7,314,326	01-01-2008	Rosenberg	
	225	7,316,657	01-08-2008	Kleinhenz et al.	
	226	7,318,828	01-15-2008	Revivo	
	227	7,320,691	01-22-2008	Pilcher et al.	
	228	7,320,801	01-22-2008	Kelly	
	229	7,354,423	04-08-2008	Zelickson et al.	
	230	7,364,565	04-29-2008	Freeman	
	231	7,384,405	06-10-2008	Rhoades	
	232	7,427,273	09-23-2008	Mitsui	
	233	7,458,944	12-02-2008	Liste et al.	
	234	7,476,205	01-13-2009	Erdmann	
	235	7,477,938	01-13-2009	Sun et al.	
	236	7,482,314	01-27-2009	Grimes et al.	
	237	7,485,125	02-03-2009	Sjostrom	
	238	7,489,989	02-10-2009	Sukhanov et al.	
	239	7,507,228	03-24-2009	Sun et al.	
	240	7,582,067	09-01-2009	Van Acker	
	241	7,597,900	10-06-2009	Zimmer et al.	
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Examiner Signature	/CHRISTIAN D KNAUSS/	Date Considered	09/08/2021

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT	Application No.	16/517,268
	Filing Date	July 19, 2019
	First Named Inventor	Ignon, Roger
	Art Unit	3771
(Multiple sheets used when necessary)	Examiner	Christian D. Knauss
SHEET 10 OF 19	Attorney Docket No.	EDGE.005C7

U.S. PATENT DOCUMENTS					
Examiner Initials	Cite No.	Document Number *Number - Kind Code (if known)* Example: 1,234,567 B1	Publication Date MM-DD-YYYY	Name of Patentee or Applicant	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear
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	245	7,744,582	06-29-2010	Sadowski et al.	
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	247	7,837,695	11-23-2010	Hart et al.	
	248	7,901,373	03-08-2011	Tavger	
	249	7,951,156	05-31-2011	Karasiuk	
	250	7,993,333	08-09-2011	Oral et al.	
	251	8,025,669	09-27-2011	David et al.	
	252	8,048,089	11-01-2011	Ignon et al.	
	253	RE 42,960	11-22-2011	Waldron	
	254	8,066,716	11-29-2011	Shadduck	
	255	8,088,085	01-03-2012	Thiebaut et al.	
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	261	8,337,513	12-25-2012	Shadduck	
	262	8,343,116	01-01-2013	Ignon et al.	
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	Filing Date	July 19, 2019
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U.S. PATENT DOCUMENTS					
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	273	9,775,646	10-03-2017	Shadduck	
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	292	2002/0133110	09-19-2002	Citow	
	293	2002/0133176	09-19-2002	Parkin et al.	
	294	2002/0151826	10-17-2002	Ramey et al	
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	299	2003/0018252	01-23-2003	Duchon et al.	
	300	2003/0060834	03-27-2003	Muldner	
	301	2003/0093040	05-15-2003	Mikszta et al.	
	302	2003/0093089	05-15-2003	Greenberg	
	303	2003/0097139	05-22-2003	Karasiuk	
	304	2003/0167032	09-04-2003	Ignon	
	305	2003/0187462	10-14-2003	Chang	
	306	2003/0208159	11-06-2003	Ignon, et al.	
	307	2003/0212127	11-13-2003	Glassman et al.	
	308	2003/0212415	11-13-2003	Karasiuk	
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	310	2004/0010269	01-15-2004	Grimes et al.	
	311	2004/0015139	01-22-2004	La Bianco	
	312	2004/0087972	05-06-2004	Mulholland, et al.	
	313	2004/0092895	05-13-2004	Harmon	
	314	2004/0092959	05-13-2004	Bernaz	
	315	2004/0097967	05-20-2004	Ignon	
	316	2004/0122447	06-24-2004	Harmon et al.	
	317	2004/0127914	07-01-2004	Chung	
	318	2004/0143274	07-22-2004	Shadduck	
	319	2004/0162565	08-19-2004	Carson et al.	
	320	2004/0166172	08-26-2004	Rosati et al.	
	321	2004/0219179	11-04-2004	McDaniel	
	322	2004/0236291	11-25-2004	Zelickson et al.	
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U.S. PATENT DOCUMENTS					
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	326	2005/0037034	02-17-2005	Rhoades	
	327	2005/0038448	02-17-2005	Chung	
	328	2005/0059940	03-17-2005	Weber et al.	
	329	2005/0084509	04-21-2005	Bernstein	
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	332	2005/0209611	09-22-2005	Greenberg	
	333	2005/0283176	12-22-2005	Law	
	334	2006/0002960	01-05-2006	Zoeteweij et al.	
	335	2006/0116674	06-01-2006	Goble et al.	
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	337	2006/0189964	08-24-2006	Anderson	
	338	2006/0191562	08-31-2006	Numomura	
	339	2006/0200099	09-07-2006	La Bianco et al.	
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	342	2006/0212029	09-21-2006	Villacampa et al.	
	343	2006/0222445	10-05-2006	Chuang	
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	346	2006/0269580	11-30-2006	Cole et al.	
	347	2007/0005078	01-04-2007	Hart et al.	
	348	2007/0043382	02-22-2007	Cheney	
	349	2007/0065515	03-22-2007	Key	
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	353	2007/0156124	07-05-2007	Ignon et al.	
	354	2007/0178121	08-02-2007	First et al.	
	355	2007/0198031	08-23-2007	Kellogg	
	356	2007/0208353	09-06-2007	Shadduck	
	357	2007/0239173	10-11-2007	Khalaj	
	358	2008/0027328	01-31-2008	Klopotek et al.	
	359	2008/0091179	04-17-2008	Durkin et al.	
	360	2008/0103563	05-01-2008	Powell	
	361	2008/0119781	05-22-2008	King	
	362	2008/0132914	06-05-2008	Bossard et al.	
	363	2008/0139974	06-12-2008	Da Silva	
	364	2008/0154161	06-26-2008	Abbott	
	365	2008/0193493	08-14-2008	Rhoades	
	366	2008/0200861	08-21-2008	Shalev et al.	
	367	2008/0208146	08-28-2008	Brandwein et al.	
	368	2008/0214987	09-04-2008	Xu	
	369	2008/0215068	09-04-2008	Hart et al.	
	370	2008/0221548	09-11-2008	Danenberg et al.	
	371	2008/0243039	10-02-2008	Rhoades	
	372	2008/0287864	11-20-2008	Rosenberg	
	373	2008/0300529	12-04-2008	Reinstein	
	374	2008/0300552	12-04-2008	Cichocki et al.	
	375	2009/0048557	02-19-2009	Yeshurun et al.	
	376	2009/0053390	02-26-2009	Sakou et al.	
	377	2009/0062815	03-05-2009	Karasiuk et al.	
	378	2009/0099091	04-16-2009	Hantash	

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	Art Unit	3771
(Multiple sheets used when necessary)	Examiner	Christian D. Knauss
SHEET 15 OF 19	Attorney Docket No.	EDGE.005C7

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	380	2009/0124985	05-14-2009	Hasenoehrl et al.	
	381	2009/0138026	05-28-2009	Wu	
	382	2009/0177171	07-09-2009	Ignon et al.	
	383	2009/0192442	07-30-2009	Ignon et al.	
	384	2009/0222023	09-03-2009	Boone, III et al.	
	385	2010/0023003	01-28-2010	Mulholland	
	386	2010/0045427	02-25-2010	Boone, III et al.	
	387	2010/0049177	02-25-2010	Boone, III et al.	
	388	2010/0049210	02-25-2010	Boone, III et al.	
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	390	2010/0305495	12-02-2010	Anderson et al.	
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	392	2011/0066162	03-17-2011	Cohen	
	393	2011/0082415	04-07-2011	Ignon et al.	
	394	2012/0022435	01-26-2012	Ignon et al.	
	395	2012/0041338	02-16-2012	Chickering III et al.	
	396	2012/0136374	05-31-2012	Karasiuk	
	397	2013/0004230	01-03-2013	Kirk, III et al.	
	398	2013/0018317	01-17-2013	Bobroff et al.	
	399	2013/0066336	03-14-2013	Boone, III et al.	
	400	2013/0096577	04-18-2013	Shadduck	
	401	2013/0102978	04-25-2013	Ignon et al.	
	402	2013/0144280	06-06-2013	Eckhouse et al.	
	403	2013/0158547	06-20-2013	David	
	404	2014/0343574	11-20-2014	Ignon et al.	
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	Art Unit	3771
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U.S. PATENT DOCUMENTS

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	407	2015/0230825	08-20-2015	Shadduck	
	408	2015/0231379	08-20-2015	Ignon et al.	
	409	2015/0265822	09-24-2015	Ignon et al.	
	410	2015/0272623	10-01-2015	Ignon et al.	
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Examiner Initials	Cite No.	Foreign Patent Document *Country Code-Number-Kind Code* Example: JP 1234567 A1	Publication Date MM-DD-YYYY	Name of Patentee or Applicant	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear	T[1]
	422	AT 400 305	12-27-1995	Devida Ges MBH		
	423	AU 1 014 299	05-31-1999	Greenberg		
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	425	DD 234 608	04-09-1986	Rath		
	426	DE 59 95 21	07-04-1934	Strickler et al.		
	427	DE 24 15 633	10-16-1975	Nubert Geb KG		X Abstract
	428	DE 33 38 057	08-09-1984	Krueger-Beuster		X Abstract

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	430	DE 35 03 343	08-14-1986	Frenkel		X Abstract
	431	DE 83 30 191	06-04-1987	Krueger-Beuster		
	432	DE 37 40 902	12-22-1988	Schlicksupp		X Abstract
	433	DE 42 37 940	05-19-1993	Berens et al.		X Abstract
	434	DE 298 08 395	08-27-1998	Ionto-Comed GmbH		
	435	DE 10 2004 015815	11-03-2005	Bundersrepublik Deutschland		
	436	EP 0 258 901	09-03-1987	Tonokura Ika Kogyo Co. LTD		
	437	EP 0 564 392	03-03-1993	Fructuoso Martinez		
	438	EP 0 784 997	07-23-1997	Koblinger Gerald Ing		X Abstract
	439	EP 2 106 780	03-09-2016	Pomar		
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	441	FR 2 712 172	05-19-1995	Rabier		X Abstract
	442	FR 2 773 461	07-16-1999	Favie Alain		X Abstract
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	445	IT 553 076	12-01-1956	Facconi		
	446	IT 118 49 22	03-22-1985	Porqueddu		
	447	JP H05-042060	02-23-1993	Hara		X
	448	JP1993-088552	12-03-1993	Sumitomo Bakelite Co., Ltd.		

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Examiner Initials	Cite No.	Foreign Patent Document *Country Code-Number-Kind Code* Example: JP 1234567 A1	Publication Date MM-DD-YYYY	Name of Patentee or Applicant	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear	T[1]
	449	JP 1997-294747	11-18-1997	Fukutaro, Yamazaki		
	450	JP2003-339713	12-02-2003	Twinbird Corp		
	451	JP2003-534881	11-25-2003	Becton, Dickinson and Company		X Abstract
	452	JP2004-275721	10-07-2004	Matsushita Electric Works		
	453	JP2006-503627 (English abstract of WO 2004/037098)	02-02-2006	Bionoface		
	454	JP2006-204767	10-08-2006	Matsushita Electric Works		
	455	KR 20-0280320 (with English machine translation obtained from Korean Intellectual Property Office website, http://eng.kipris.or.kr/enghome/main.jsp)	07-02-2002	Lee		
	456	KR 10-20070070173	07-03-2007	Dermanew Inc.		X Abstract
	457	WO 1994/024980	11-10-1994	D+P Cosmetics AG		
	458	WO 1997/011650	03-04-1997	Cawley		
	459	WO 2000/015300	03-23-2000	Ultra Cure Ltd		
	460	WO 2001/93931	12-13-2001	Becton, Dickinson and Company		
	461	WO 2003/073917	09-12-2003	Edge Systems		
	462	WO 2004/037098	05-06-2004	Bionoface		
	463	WO 2005/070313	08-04-2005	Crystal Clear International Limited		
	464	WO 2006/018731	02-23-2006	Mc Anton Holding SA		
	465	WO 2006/031413	03-23-2006	Dermanew Inc.		

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PTO/SB/08 Equivalent

INFORMATION DISCLOSURE STATEMENT BY APPLICANT	Application No.	16/517,268
	Filing Date	July 19, 2019
	First Named Inventor	Ignon, Roger
	Art Unit	3771
(Multiple sheets used when necessary)	Examiner	Christian D. Knauss
SHEET 19 OF 19	Attorney Docket No.	EDGE.005C7

FOREIGN PATENT DOCUMENTS						
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	466	WO 2007/114904	10-11-2007	Amcol International Corporation		
	467	WO 2009/088884	07-16-2009	Edge Systems Corporation		
	468	WO 2009/097451	08-06-2009	Edge Systems Corporation		
	469	WO 2012/145667	10-26-2012	Sun-Less, Inc.		
	470	WO 2014/151104	09-25-2014	Edge Systems LLC		
	471	WO 2016/106396	06-30-2016	Edge Systems LLC		
	472	WO 2017/007939	01-12-2017	Edge Systems LLC		

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T[1]
	473	Cox III et al., Decreased Splatter in Dermabrasion, Arch Facial Plastic Surgery, Jan-Mar 2000, Vol. 2, pp. 23-26	
	474	Ditre et al., Effect of α-hydroxy acids on photoaged skin: A pilot clinical, histologic, and ultrastructural study, Journal of American Academy of Dermatology, February 1996, Vol. 34, No. 2, Part 1, pp.187-195.	
	475	Harris et al., Combining Manual Dermasanding with Low Strength Trichloroacetic Acid to Improve Antinically Injured Skin, The Journal of Dermatologic Surgery and Oncology, July 1994, Vol. 20, No. 7, pp. 436-442.	
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U.S. PATENT DOCUMENTS					
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	1	1,651,585	12-06-1927	Clair	
	2	2,608,032	08-26-1952	Garver	
	3	2,631,583	03-17-1953	Lavergne	
	4	2,701,559	02-05-1955	Cooper	
	5	2,712,823	07-12-1955	Kurtin	
	6	2,867,214	01-06-1959	Wilson	
	7	2,881,763	04-14-1959	Robbins	
	8	2,921,585	01-19-1960	Schumann	
	9	3,037,509	06-05-1962	Schutz	
	10	3,085,573	04-16-1963	Meyer et al.	
	11	3,214,869	11-02-1965	Stryker	
	12	3,468,079	09-23-1969	Kaufman	
	13	3,476,112	11-04-1969	Elstein	
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	15	3,505,993	04-14-1970	Lewes et al.	
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	27	4,182,329	01-08-1980	Smit et al.	

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U.S. PATENT DOCUMENTS					
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	28	4,203,431	05-20-1980	Abura et al.	
	29	4,216,233	08-05-1980	Stein	
	30	4,225,254	09-30-1980	Holberg et al.	
	31	4,289,158	09-15-1981	Nehring	
	32	4,299,219	11-10-1981	Norris, Jr.	
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	34	4,560,373	12-24-1985	Sugino et al.	
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	37	4,655,743	04-07-1987	Hyde	
	38	4,676,749	06-30-1987	Mabille	
	39	4,706,676	11-17-1987	Peck	
	40	4,718,467	01-12-1988	Di Gianfilippo et al.	
	41	4,754,756	07-05-1988	Shelanski	
	42	4,757,814	07-19-1988	Wang et al.	
	43	4,764,362	08-16-1988	Barchas	
	44	4,795,421	01-03-1989	Blasius, Jr., et al.	
	45	4,811,734	03-14-1989	McGurk-Burleson et al	
	46	4,836,192	06-06-1989	Abbate	
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	50	4,900,316	02-13-1990	Yamamoto	
	51	4,917,086	04-17-1990	Feltovich et al.	
	52	4,925,450	05-15-1990	Imonti et al.	
	53	4,940,350	07-10-1990	Kim	
	54	4,957,747	09-18-1990	Stiefel	

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U.S. PATENT DOCUMENTS					
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	55	5,006,004	04-09-1991	Dirksing et al.	
	56	5,006,339	04-09-1991	Bargery et al.	
	57	5,012,797	05-07-1991	Liang et al.	
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	64	5,119,839	06-09-1992	Rudolph	
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	79	5,470,323	11-28-1995	Smith et al.	
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	81	5,490,736	02-13-1996	Haber et al.	

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SHEET 4 OF 19	Attorney Docket No.	EDGE.005C7

U.S. PATENT DOCUMENTS					
Examiner Initials	Cite No.	Document Number *Number - Kind Code (if known)* Example: 1,234,567 B1	Publication Date MM-DD-YYYY	Name of Patentee or Applicant	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear
	82	5,512,044	04-30-1996	Duer	
	83	5,562,642	10-08-1996	Smith et al.	
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	87	5,674,235	10-07-1997	Parisi	
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	96	5,762,640	06-09-1998	Kajiwara et al.	
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	103	5,834,510	11-10-1998	Yu et al.	
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	105	5,848,998	12-15-1998	Marasco, Jr.	
	106	5,857,995	01-12-1999	Thomas et al.	
	107	5,861,142	01-19-1999	Schick	
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SHEET 5 OF 19	Attorney Docket No.	EDGE.005C7

U.S. PATENT DOCUMENTS

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	132	6,149,634	11-21-2000	Bernabei	
	133	6,159,226	12-12-2000	Kim	
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	140	6,196,982	03-06-2001	Ball	
	141	6,231,593	05-15-2001	Meserol	
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	148	6,299,620	10-09-2001	Shadduck	
	149	6,306,119	10-23-2001	Weber et al.	
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	153	6,332,886	12-25-2001	Green et al.	
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	156	6,401,289	06-11-2002	Herbert	
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	158	6,410,599	06-25-2002	Johnson	
	159	6,414,032	07-02-2002	Johnson	
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	164	6,432,113	08-13-2002	Parkin et al.	
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	166	6,471,712	10-29-2002	Burres	
	167	6,477,410	11-05-2002	Henley et al.	
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	178	6,562,013	05-13-2003	Marasco, Jr.	
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	181	6,565,535	05-20-2003	Zaias et al.	
	182	6,582,442	06-24-2003	Simon et al.	
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	186	6,641,591	11-04-2003	Shadduck	
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	195	6,735,470	05-11-2004	Henley et al.	
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	197	6,743,215	06-01-2004	Bernabei	
	198	6,764,493	07-20-2004	Weber et al.	
	199	6,800,083	10-05-2004	Hiblar et al.	
	200	6,869,611	03-22-2005	Kligman et al.	
	201	6,905,487	06-14-2005	Zimmerman	
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	205	6,960,206	11-01-2005	Keane	
	206	7,001,355	02-21-2006	Nunomura et al.	
	207	7,004,933	02-28-2006	McDaniel	
	208	7,044,938	05-16-2006	La Bianco et al.	
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	214	7,094,252	08-22-2006	Koop	
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	216	7,135,011	11-14-2006	Powers et al.	

Examiner Signature	/CHRISTIAN D KNAUSS/	Date Considered	09/08/2021

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PTO/SB/08 Equivalent

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	Filing Date	July 19, 2019
	First Named Inventor	Roger Ignon
	Art Unit	3771
(Multiple sheets used when necessary)	Examiner	Christian D. Knauss
SHEET 9 OF 19	Attorney Docket No.	EDGE.005C7

U.S. PATENT DOCUMENTS					
Examiner Initials	Cite No.	Document Number *Number - Kind Code (if known)* Example: 1,234,567 B1	Publication Date MM-DD-YYYY	Name of Patentee or Applicant	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear
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	218	7,197,359	03-27-2007	Tokudome et al.	
	219	7,198,623	04-03-2007	Fischer et al.	
	220	7,232,444	06-19-2007	Chang	
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	223	7,293,930	11-13-2007	Chuang	
	224	7,314,326	01-01-2008	Rosenberg	
	225	7,316,657	01-08-2008	Kleinhenz et al.	
	226	7,318,828	01-15-2008	Revivo	
	227	7,320,691	01-22-2008	Pilcher et al.	
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	229	7,354,423	04-08-2008	Zelickson et al.	
	230	7,364,565	04-29-2008	Freeman	
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	233	7,458,944	12-02-2008	Liste et al.	
	234	7,476,205	01-13-2009	Erdmann	
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U.S. PATENT DOCUMENTS					
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	244	7,678,120	03-16-2010	Shadduck	
	245	7,744,582	06-29-2010	Sadowski et al.	
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	251	8,025,669	09-27-2011	David et al.	
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	253	RE 42,960	11-22-2011	Waldron	
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U.S. PATENT DOCUMENTS					
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	299	2003/0018252	01-23-2003	Duchon et al.	
	300	2003/0060834	03-27-2003	Muldner	
	301	2003/0093040	05-15-2003	Mikszta et al.	
	302	2003/0093089	05-15-2003	Greenberg	
	303	2003/0097139	05-22-2003	Karasiuk	
	304	2003/0167032	09-04-2003	Ignon	
	305	2003/0187462	10-14-2003	Chang	
	306	2003/0208159	11-06-2003	Ignon, et al.	
	307	2003/0212127	11-13-2003	Glassman et al.	
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	314	2004/0092959	05-13-2004	Bernaz	
	315	2004/0097967	05-20-2004	Ignon	
	316	2004/0122447	06-24-2004	Harmon et al.	
	317	2004/0127914	07-01-2004	Chung	
	318	2004/0143274	07-22-2004	Shadduck	
	319	2004/0162565	08-19-2004	Carson et al.	
	320	2004/0166172	08-26-2004	Rosati et al.	
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	322	2004/0236291	11-25-2004	Zelickson et al.	
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	325	2004/0267285	12-30-2004	Chang	
	326	2005/0037034	02-17-2005	Rhoades	
	327	2005/0038448	02-17-2005	Chung	
	328	2005/0059940	03-17-2005	Weber et al.	
	329	2005/0084509	04-21-2005	Bernstein	
	330	2005/0148958	07-07-2005	Rucinski	
	331	2005/0203111	09-15-2005	David	
	332	2005/0209611	09-22-2005	Greenberg	
	333	2005/0283176	12-22-2005	Law	
	334	2006/0002960	01-05-2006	Zoeteweij et al.	
	335	2006/0116674	06-01-2006	Goble et al.	
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	337	2006/0189964	08-24-2006	Anderson	
	338	2006/0191562	08-31-2006	Numomura	
	339	2006/0200099	09-07-2006	La Bianco et al.	
	340	2006/0200172	09-07-2006	Shadduck	
	341	2006/0200173	09-07-2006	Shadduck	
	342	2006/0212029	09-21-2006	Villacampa et al.	
	343	2006/0222445	10-05-2006	Chuang	
	344	2006/0253125	11-09-2006	Ignon	
	345	2006/0264893	11-23-2006	Sage, Jr. et al.	
	346	2006/0269580	11-30-2006	Cole et al.	
	347	2007/0005078	01-04-2007	Hart et al.	
	348	2007/0043382	02-22-2007	Cheney	
	349	2007/0065515	03-22-2007	Key	
	350	2007/0088371	04-19-2007	Karasiuk	
	351	2007/0123808	05-31-2007	Rhoades	

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(Multiple sheets used when necessary)	Examiner	Christian D. Knauss
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U.S. PATENT DOCUMENTS					
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	352	2007/0154502	07-05-2007	Hattendorf et al.	
	353	2007/0156124	07-05-2007	Ignon et al.	
	354	2007/0178121	08-02-2007	First et al.	
	355	2007/0198031	08-23-2007	Kellogg	
	356	2007/0208353	09-06-2007	Shadduck	
	357	2007/0239173	10-11-2007	Khalaj	
	358	2008/0027328	01-31-2008	Klopotek et al.	
	359	2008/0091179	04-17-2008	Durkin et al.	
	360	2008/0103563	05-01-2008	Powell	
	361	2008/0119781	05-22-2008	King	
	362	2008/0132914	06-05-2008	Bossard et al.	
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	364	2008/0154161	06-26-2008	Abbott	
	365	2008/0193493	08-14-2008	Rhoades	
	366	2008/0200861	08-21-2008	Shalev et al.	
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	368	2008/0214987	09-04-2008	Xu	
	369	2008/0215068	09-04-2008	Hart et al.	
	370	2008/0221548	09-11-2008	Danenberg et al.	
	371	2008/0243039	10-02-2008	Rhoades	
	372	2008/0287864	11-20-2008	Rosenberg	
	373	2008/0300529	12-04-2008	Reinstein	
	374	2008/0300552	12-04-2008	Cichocki et al.	
	375	2009/0048557	02-19-2009	Yeshurun et al.	
	376	2009/0053390	02-26-2009	Sakou et al.	
	377	2009/0062815	03-05-2009	Karasiuk et al.	
	378	2009/0099091	04-16-2009	Hantash	

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SHEET 15 OF 19	Attorney Docket No.	EDGE.005C7

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	380	2009/0124985	05-14-2009	Hasenoehrl et al.	
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	383	2009/0192442	07-30-2009	Ignon et al.	
	384	2009/0222023	09-03-2009	Boone, III et al.	
	385	2010/0023003	01-28-2010	Mulholland	
	386	2010/0045427	02-25-2010	Boone, III et al.	
	387	2010/0049177	02-25-2010	Boone, III et al.	
	388	2010/0049210	02-25-2010	Boone, III et al.	
	389	2010/0217357	08-26-2010	Da Silva	
	390	2010/0305495	12-02-2010	Anderson et al.	
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	392	2011/0066162	03-17-2011	Cohen	
	393	2011/0082415	04-07-2011	Ignon et al.	
	394	2012/0022435	01-26-2012	Ignon et al.	
	395	2012/0041338	02-16-2012	Chickering III et al.	
	396	2012/0136374	05-31-2012	Karasiuk	
	397	2013/0004230	01-03-2013	Kirk, III et al.	
	398	2013/0018317	01-17-2013	Bobroff et al.	
	399	2013/0066336	03-14-2013	Boone, III et al.	
	400	2013/0096577	04-18-2013	Shadduck	
	401	2013/0102978	04-25-2013	Ignon et al.	
	402	2013/0144280	06-06-2013	Eckhouse et al.	
	403	2013/0158547	06-20-2013	David	
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U.S. PATENT DOCUMENTS

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	407	2015/0230825	08-20-2015	Shadduck	
	408	2015/0231379	08-20-2015	Ignon et al.	
	409	2015/0265822	09-24-2015	Ignon et al.	
	410	2015/0272623	10-01-2015	Ignon et al.	
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	413	2017/0065801	03-09-2017	Ignon et al.	
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	415	2018/0318568	11-08-2018	Ignon et al.	
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	422	AT 400 305	12-27-1995	Devida Ges MBH		
	423	AU 1 014 299	05-31-1999	Greenberg		
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	425	DD 234 608	04-09-1986	Rath		
	426	DE 59 95 21	07-04-1934	Strickler et al.		
	427	DE 24 15 633	10-16-1975	Nubert Geb KG		X Abstract
	428	DE 33 38 057	08-09-1984	Krueger-Beuster		X Abstract

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	429	DE 34 21 390	12-12-1985	Schubert		
	430	DE 35 03 343	08-14-1986	Frenkel		X Abstract
	431	DE 83 30 191	06-04-1987	Krueger-Beuster		
	432	DE 37 40 902	12-22-1988	Schlicksupp		X Abstract
	433	DE 42 37 940	05-19-1993	Berens et al.		X Abstract
	434	DE 298 08 395	08-27-1998	Ionto-Comed GmbH		
	435	DE 10 2004 015815	11-03-2005	Bundersrepublik Deutschland		
	436	EP 0 258 901	09-03-1987	Tonokura Ika Kogyo Co. LTD		
	437	EP 0 564 392	03-03-1993	Fructuoso Martinez		
	438	EP 0 784 997	07-23-1997	Koblinger Gerald Ing		X Abstract
	439	EP 2 106 780	03-09-2016	Pomar		
	440	ES 1 037 776	04-01-1998	Concustell Gonfaus		X Abstract
	441	FR 2 712 172	05-19-1995	Rabier		X Abstract
	442	FR 2 773 461	07-16-1999	Favie Alain		X Abstract
	443	GB 1 372 609	10-30-1974	Forenade Fabrik-Sverken		
	444	GB 2306351	05-07-1997	Inahara		
	445	IT 553 076	12-01-1956	Facconi		
	446	IT 118 49 22	03-22-1985	Porqueddu		
	447	JP H05-042060	02-23-1993	Hara		X
	448	JP1993-088552	12-03-1993	Sumitomo Bakelite Co., Ltd.		

Examiner Signature	/CHRISTIAN D KNAUSS/	Date Considered	09/08/2021

***Examiner:** Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

T[1] - Place a check mark in this area when an English language Translation is attached.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /C.D.K/

PTO/SB/08 Equivalent

INFORMATION DISCLOSURE STATEMENT BY APPLICANT	Application No.	16/517,268
	Filing Date	July 19, 2019
	First Named Inventor	Roger Ignon
	Art Unit	3771
(Multiple sheets used when necessary)	Examiner	Christian D. Knauss
SHEET 18 OF 19	Attorney Docket No.	EDGE.005C7

FOREIGN PATENT DOCUMENTS

Examiner Initials	Cite No.	Foreign Patent Document *Country Code-Number-Kind Code* Example: JP 1234567 A1	Publication Date MM-DD-YYYY	Name of Patentee or Applicant	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear	T[1]
	449	JP 1997-294747	11-18-1997	Fukutaro, Yamazaki		
	450	JP2003-339713	12-02-2003	Twinbird Corp		
	451	JP2003-534881	11-25-2003	Becton, Dickinson and Company		X Abstract
	452	JP2004-275721	10-07-2004	Matsushita Electric Works		
	453	JP2006-503627 (English abstract of WO 2004/037098)	02-02-2006	Bionoface		
	454	JP2006-204767	10-08-2006	Matsushita Electric Works		
	455	KR 20-0280320 (with English machine translation obtained from Korean Intellectual Property Office website, http://eng.kipris.or.kr/enghome/main.jsp)	07-02-2002	Lee		
	456	KR 10-20070070173	07-03-2007	Dermanew Inc.		X Abstract
	457	WO 1994/024980	11-10-1994	D+P Cosmetics AG		
	458	WO 1997/011650	03-04-1997	Cawley		
	459	WO 2000/015300	03-23-2000	Ultra Cure Ltd		
	460	WO 2001/93931	12-13-2001	Becton, Dickinson and Company		
	461	WO 2003/073917	09-12-2003	Edge Systems		
	462	WO 2004/037098	05-06-2004	Bionoface		
	463	WO 2005/070313	08-04-2005	Crystal Clear International Limited		
	464	WO 2006/018731	02-23-2006	Mc Anton Holding SA		
	465	WO 2006/031413	03-23-2006	Dermanew Inc.		

Examiner Signature	/CHRISTIAN D KNAUSS/	Date Considered	09/08/2021

***Examiner:** Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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PTO/SB/08 Equivalent

INFORMATION DISCLOSURE STATEMENT BY APPLICANT	Application No.	16/517,268
	Filing Date	July 19, 2019
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(Multiple sheets used when necessary)	Examiner	Christian D. Knauss
SHEET 19 OF 19	Attorney Docket No.	EDGE.005C7

FOREIGN PATENT DOCUMENTS						
Examiner Initials	Cite No.	Foreign Patent Document *Country Code-Number-Kind Code* Example: JP 1234567 A1	Publication Date MM-DD-YYYY	Name of Patentee or Applicant	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear	T[1]
	466	WO 2007/114904	10-11-2007	Amcol International Corporation		
	467	WO 2009/088884	07-16-2009	Edge Systems Corporation		
	468	WO 2009/097451	08-06-2009	Edge Systems Corporation		
	469	WO 2012/145667	10-26-2012	Sun-Less, Inc.		
	470	WO 2014/151104	09-25-2014	Edge Systems LLC		
	471	WO 2016/106396	06-30-2016	Edge Systems LLC		
	472	WO 2017/007939	01-12-2017	Edge Systems LLC		

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T[1]
	473	Cox III et al., Decreased Splatter in Dermabrasion, Arch Facial Plastic Surgery, Jan-Mar 2000, Vol. 2, pp. 23-26	
	474	Ditre et al., Effect of α-hydroxy acids on photoaged skin: A pilot clinical, histologic, and ultrastructural study, Journal of American Academy of Dermatology, February 1996, Vol. 34, No. 2, Part 1, pp.187-195.	
	475	Harris et al., Combining Manual Dermasanding with Low Strength Trichloroacetic Acid to Improve Antinically Injured Skin, The Journal of Dermatologic Surgery and Oncology, July 1994, Vol. 20, No. 7, pp. 436-442.	
	476	Microdermabrader Pepita Instruction Manual, Mattioli Engineering S.R.L., PEP_USA2.doc Rev 1.1, 09-29-1997	

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Examiner Signature	/CHRISTIAN D KNAUSS/	Date Considered	09/08/2021

***Examiner:** Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

T[1] - Place a check mark in this area when an English language Translation is attached.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /C.D.K/

INFORMATION DISCLOSURE STATEMENT

Inventor	:	Ignon et al.
Appl. No.	:	16/517,268
Filed	:	July 19, 2019
For	:	DEVICES AND METHODS FOR TREATING SKIN
Examiner	:	Christian D. Knauss
Art Unit	:	3771
Conf. No.	:	9432

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

References and Listing

Pursuant to 37 CFR 1.56, an Information Disclosure Statement listing references is provided herewith. Copies of any listed foreign and non-patent literature references are being submitted. Any foreign references may also include English abstract(s) and/or machine translation(s), but no representation is made as to their accuracy. Identification herein is not an admission that any of the references are prior art to the above captioned application.

Applicant respectfully requests the Examiner to inform the undersigned representative if copies of any references or if any additional information is needed for a complete review of the references listed on the attached PTO/SB/08 form.

No Disclaimers

To the extent that anything in the Information Disclosure Statement or the listed references could be construed as a disclaimer of any subject matter supported by the present application, Applicant hereby rescinds and retracts such disclaimer.

Co-Pending Applications and Issued Patents of Assignee

Applicant wishes to draw the Examiner's attention to the following co-pending applications and issued patents of the present application's assignee.

Attorney Docket No.	Country	App. No. (Pat. No., if appl.)	Filing Date	Title
EDGE.004A	US	09/648,025 (Pat. No. 6,641,591)	Aug. 25, 2000	INSTRUMENTS AND TECHNIQUES FOR CONTROLLED REMOVAL OF EPIDERMAL LAYERS

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /C.D.K/

Attorney Docket No.	Country	App. No. (Pat. No., if appl.)	Filing Date	Title
EDGE.004C1	US	10/699,747 (Pat. No. 7,789,886)	Nov. 3, 2003	INSTRUMENTS AND TECHNIQUES FOR CONTROLLED REMOVAL OF EPIDERMAL LAYERS
EDGE.004C1DV1	US	11/739,615 (Pat. No. 8,337,513)	Apr. 24, 2007	INSTRUMENTS AND TECHNIQUES FOR CONTROLLED REMOVAL OF EPIDERMAL LAYERS
EDGE.004C2	US	11/417,709 (Pat. No. 8,066,716)	May 3, 2006	INSTRUMENTS AND TECHNIQUES FOR CONTROLLED REMOVAL OF EPIDERMAL LAYERS
EDGE.004C3	US	11/417,396 (Pat. No. 7,678,120)	May 3, 2006	INSTRUMENTS AND TECHNIQUES FOR CONTROLLED REMOVAL OF EPIDERMAL LAYERS
EDGE.004C4	US	13/620,164	Sep. 14, 2012	INSTRUMENTS AND TECHNIQUES FOR CONTROLLED REMOVAL OF EPIDERMAL LAYERS
EDGE.004C5	US	14/702,509 (Pat. No. 9,775,646)	May 1, 2015	DEVICES AND SYSTEMS FOR TREATING THE SKIN USING VACUUM
EDGE.004C6	US	14/702,486 (Pat. No. 9,468,464)	May 1, 2015	METHODS FOR TREATING THE SKIN USING VACUUM
EDGE.004C7	US	15/953,337	Apr. 13, 2018	INSTRUMENTS AND TECHNIQUES FOR CONTROLLED REMOVAL OF EPIDERMAL LAYERS
EDGE.005A	US	11/392,348 (Pat. No. 8,048,089)	Mar. 29, 2006	APPARATUS AND METHODS FOR TREATING THE SKIN
EDGE.005C1	US	13/267,554 (Pat. No. 9,474,886)	Oct. 6, 2011	REMOVABLE TIPS FOR SKIN TREATMENT SYSTEMS
EDGE.005C2	US	14/698,673 (Pat No. 9,550,052)	Apr. 28, 2015	CONSOLE SYSTEM FOR THE TREATMENT OF SKIN
EDGE.005C3	US	14/698,713 (Pat. No. 9,662,482)	Apr. 28, 2015	METHODS AND SYSTEMS FOR EXTRACTION OF MATERIALS FROM SKIN
EDGE.005C4	US	14/700,789 (Pat. No. 9,814,868)	Apr. 30, 2015	TIP WITH EMBEDDED MATERIALS FOR SKIN TREATMENT
EDGE.005C5	US	15/660,750 (Pat. No. 10/357,641)	Jul. 26, 2017	TIPS FOR SKIN TREATMENT DEVICE
EDGE.005C6	US	15/660,777 (Pat. No. 10/357,642)	Jul. 26, 2017	REMOVABLE TIPS FOR USE WITH SKIN TREATMENT SYSTEMS
EDGE.005C7	**US**	**16/517,268 (*present application*)**	**July 19, 2019**	**DEVICES AND METHODS FOR TREATING SKIN**
EDGE.005C8	US	17/165,820	Feb. 2, 2021	DEVICES AND METHODS FOR TREATING SKIN
EDGE.005C9	US	17/165,807	Feb. 2, 2021	DEVICES AND METHODS FOR TREATING SKIN
EDGE.005DP1	US	29/679299	Feb. 4, 2019	SKIN TREATMENT SYSTEM
EDGE.005DP2	US	29/679,306	Feb. 4, 2019	HANDPIECE ASSEMBLY TIP
EDGE.005DP3	US	29/679302	Feb. 4, 2019	HANDPIECE ASSEMBLY TIP
EDGE.006A	US	09/294,254 (Pat. No. 6,162,232)	Apr. 19, 1999	INSTRUMENTS AND TECHNIQUES FOR HIGH-VELOCITY FLUID ABRASION OF EPIDERMAL LAYERS WITH SKIN COOLING
EDGE.007A	US	09/475480 (Pat. No. 6,299,620)	Dec. 30, 1999	INSTRUMENTS AND TECHNIQUES FOR INDUCING NEOCOLLAGENESIS IN SKIN TREATMENTS
EDGE.008A	US	09/475479 (Pat. No. 6,387,103)	Dec. 30, 1999	INSTRUMENTS AND TECHNIQUES FOR INDUCING NEOCOLLAGENESIS IN SKIN TREATMENTS

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /C.D.K/

Attorney Docket No.	Country	App. No. (Pat. No., if appl.)	Filing Date	Title
EDGE.022A	US	11/370,200	Mar. 7, 2006	MICRODERMABRASION METHOD AND APPARATUS
EDGE.044A	US	12/362,353 (Pat. No. 9,056,193)	Jan. 29, 2009	APPARATUS AND METHOD FOR TREATING THE SKIN
EDGE.044C1	US	14/734,995 (Pat. No. 11,020,577)	Jun. 9, 2015	DEVICES AND SYSTEMS FOR TREATING SKIN SURFACES
EDGE.044C2	US	17/332,897	May 27, 2021	DEVICES, SYSTEMS, AND METHODS FOR TREATING THE SKIN
EDGE.044CP1	US	12/832,663 (Pat. No. 8,814,836)	Jul 8, 2010	DEVICES, SYSTEMS AND METHODS FOR TREATING THE SKIN USING TIME-RELEASE SUBSTANCES
EDGE.044P1C1	US	14/455,762 (Pat. No. 9,642,997)	Aug. 8, 2014	DEVICES FOR TREATING SKIN USING TREATMENT MATERIALS LOCATED ALONG A TIP
EDGE.044P1C2	US	15/588,102 (Pat. No. 10,556,097)	May 5, 2017	DEVICES FOR TREATING SKIN USING TREATMENT MATERIALS LOCATED ALONG A TIP
EDGE.044P1C3	US	16/784,850	Feb. 7, 2020	DEVICES AND METHODS FOR TREATING SKIN
EDGE.047A	US	12/346,582 (Pat. No. 8,343,116)	Dec. 30, 2008	APPARATUS AND METHOD FOR TREATING THE SKIN
EDGE.047C1	US	13/620,376 (Pat. No. 9,486,615)	Sep. 14, 2012	MICRODERMABRASION APPARATUS AND METHOD
EDGE.047C2	US	15/344,357 (Pat. No. 10,556,096)	Nov. 4, 2016	DEVICES AND METHODS FOR SKIN TREATMENT
EDGE.047C3	US	16/784,044	Feb. 6, 2020	DEVICES AND METHODS FOR SKIN TREATMENT
EDGE.050A	US	09/540,945 (Pat. No. 6,592,595)	Mar. 31, 2000	MICRODERMABRASION AND SUCTION MASSAGE APPARATUS AND METHOD
EDGE.050C1	US	09/698,409 (Pat. No. 6,527,783)	Oct. 27, 2000	MICRODERMABRASION AND SUCTION MASSAGE APPARATUS AND METHOD
EDGE.050DV1	US	10/177,173 (Pat. No. 6,673,082)	Jun. 20, 2002	MICRODERMABRASION HANDPIECE WITH SUPPLY AND RETURN LUMENS
EDGE.051A	US	10/315,478 (Pat. No. 6,942,649)	Dec. 10, 2002	MICRODERMABRASION FLUID APPLICATION SYSTEM AND METHOD
EDGE.052A	US	09/699,220 (Pat. No. 6,629,983)	Oct. 27, 2000	APPARATUS AND METHOD FOR SKIN/SURFACE ABRASION
EDGE.065A	US	14/211,089 (Pat. No. 10,238,812)	Mar. 14, 2014	SKIN TREATMENT SYSTEMS AND METHODS USING NEEDLES
EDGE.065C1	US	16/363,310	Mar. 25, 2019	SKIN TREATMENT SYSTEMS AND METHODS USING NEEDLES
EDGE.077A	US	14/211,290 (Pat. No. 9,566,088)	Mar. 14, 2014	DEVICES, SYSTEMS AND METHODS FOR TREATING THE SKIN
EDGE.077C1	US	15/430,209 (Pat. No. 10,251,675)	Feb. 10, 2017	DEVICES, SYSTEMS AND METHODS FOR TREATING THE SKIN
EDGE.077C2	US	16/376,956	Apr. 5, 2019	DEVICES, SYSTEMS AND METHODS FOR TREATING THE SKIN
EDGE.077NP	US	14/774,641 (Pat. 10,172,644)	Sep. 10, 2015	DEVICES, SYSTEMS AND METHODS FOR TREATING THE SKIN
EDGE.077NPC1	US	16/241,572 (Pat. No. 10,993,743)	Jan. 7, 2019	DEVICES, SYSTEMS AND METHODS FOR TREATING THE SKIN
EDGE.077NPC2	US	17/163,128	Jan. 29, 2021	DEVICES, SYSTEMS AND METHODS FOR TREATING THE SKIN
EDGE.077NPC3	US	17/163,199	Jan. 29, 2021	DEVICES, SYSTEMS AND METHODS FOR TREATING THE SKIN

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /C.D.K/

Attorney Docket No.	Country	App. No. (Pat. No., if appl.)	Filing Date	Title
EDGE.077NPC4	US	17/163,237	Jan. 29, 2021	DEVICES, SYSTEMS AND METHODS FOR TREATING THE SKIN
EDGE.077NPC5	US	17/163,240	Jan. 29, 2021	DEVICES, SYSTEMS AND METHODS FOR TREATING THE SKIN
EDGE.090A	US	14/998,375 (Pat. No. 9,498,610)	Dec. 23, 2015	DEVICES AND METHODS FOR TREATING THE SKIN USING A ROLLERBALL OR A WICKING MEMBER
EDGE.090C1	US	15/354,754 (Pat. No. 10,035,007)	Nov. 17, 2016	DEVICES AND METHODS FOR TREATING THE SKIN
EDGE.090C2	US	16/040,397	July 19, 2018	DEVICES AND METHODS FOR TREATING THE SKIN
EDGE.090C3	US	17/164,580	Feb. 1, 2021	DEVICES AND METHODS FOR TREATING THE SKIN
EDGE.090P1	US	15/498,416 (Pat. No. 10,179,229)	Apr. 26, 2017	DEVICES AND METHODS FOR TREATING THE SKIN USING A POROUS MEMBER
EDGE.090P1C1	US	16/246306	Jan. 11, 2019	DEVICES AND METHODS FOR TREATING THE SKIN USING A POROUS MEMBER
EDGE.091A	US	15/204,939	Jul. 7, 2016	DEVICES, SYSTEMS AND METHODS FOR PROMOTING HAIR GROWTH

Copies of these patents and patent applications, including any pending claims, office actions, allowances and/or other communications, are available through PALM and/or PAIR. However, if the Examiner so requests, Applicant will be happy to provide the Examiner with copies of any applications, pending claims, office actions, allowances, communications or any other documents, at any time.

Further, Applicant notes for the record that the claims of the present application are different and may be broader in scope than the claims in any related patent or application. To the extent that any statements made in a related case (such as amendments or characterizations regarding the scope of a claim or prior art) could be construed as a disclaimer of any subject matter supported by the present disclosure, Applicant rescinds and retracts such disclaimer. Accordingly, any listed or referenced prior art may need to be re-visited. Further, any objections or rejections made by the Examiner in the issued and allowed cases identified above may need to be re-visited.

Timing of Disclosure

This Information Disclosure Statement is being filed after receipt of a First Office Action, but before the mailing date of a Final Action and before the mailing date of a Notice of Allowance.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /C.D.K/

This Statement is accompanied by the fees set forth in 37 CFR 1.17(p). The Commissioner is hereby authorized to charge any additional fees which may be required or to credit any overpayment to Account No. 11-1410.

Respectfully submitted,

KNOBBE, MARTENS, OLSON & BEAR, LLP

Dated: Aug. 16, 2021

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53919496

/CHRISTIAN D KNAUSS/
09/08/2021

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PE2E SEARCH - Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	British Equivalents	Time Stamp
L1	29	(roger near2 ignon).in.	(US-PGPUB; USPAT)	OR	OFF	OFF	2015/07/21 04:00 AM
L2	101	(scott near2 mallett).in.	(US-PGPUB; USPAT)	OR	OFF	OFF	2015/07/21 04:04 AM
L3	3	(abraham near2 solano).in.	(US-PGPUB; USPAT)	OR	OFF	OFF	2015/07/21 04:06 AM
L4	100	(william near2 cohen).in.	(US-PGPUB; USPAT)	OR	OFF	OFF	2015/07/21 04:07 AM
L5	24	(edge near2 systems).as.	(US-PGPUB; USPAT)	OR	OFF	OFF	2015/07/21 04:09 AM
L6	310	US-1234567-$.DID. OR US-2608032-$.DID. OR US-2701559-$.DID. OR US-2712823-$.DID. OR US-2867214-$.DID. OR US-2881763-$.DID. OR US-2921585-$.DID. OR US-3085573-$.DID. OR US-3214869-$.DID. OR US-3476112-$.DID. OR US-3574239-$.DID. OR US-3715838-$.DID. OR US-3948265-$.DID. OR US-3964212-$.DID. OR US-3977084-$.DID. OR US-4121388-$.DID. OR US-4155721-$.DID. OR US-4182329-$.DID. OR US-4203431-$.DID. OR US-4216233-$.DID. OR US-4299219-$.DID. OR US-4378804-$.DID. OR US-4560373-$.DID. OR US-4646480-$.DID. OR US-4646482-$.DID. OR US-4655743-$.DID. OR US-4676749-$.DID. OR US-4706676-$.DID. OR US-4754756-$.DID. OR US-4757814-$.DID. OR US-4764362-$.DID. OR US-4795421-$.DID. OR US-4875287-$.DID. OR US-4886078-$.DID. OR US-4887994-$.DID. OR US-4900316-$.DID. OR US-4917086-$.DID. OR US-4925450-$.DID. OR US-4957747-$.DID. OR US-5006004-$.DID. OR US-5006339-$.DID. OR	(US-PGPUB; USPAT)	OR	OFF	OFF	2015/07/21 04:14 AM

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L21	51	("20010023351" | "2701559" | "2712823" | "2867214" | "2881763" | "2921585" | "3964212" | "4378804" | "4957747" | "5012797" | "5037431" | "5037432" | "5100412" | "5207034" | "5207234" | "5620414" | "5800446" | "5810842" | "5954730" | "5971999" | "6019749" | "6039745" | "6042552" | "6080165" | "6120512" | "6238275" | "6303119").PN. OR ("6527783").URPN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2015/07/22 04:09 AM
L22	32	("20010023351" | "5037432" | "5100412" | "5207034" | "5207234" | "5620414" | "5810842" | "5954730" | "5971999" | "6019749" | "6039745" | "6080165" | "6120512" | "6139554" | "6196982" | "6235039" | "6238275" | "6241739" | "6250996" | "6277003" | "6306119" | "6390899").PN. OR ("6673082").URPN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2015/07/22 04:09 AM
L23	42	("20010023351" | "4572187" | "5037432" | "5100412" | "5154696" | "5207234" | "5354307" | "5810842" | "5954730" | "5971999" | "6019749" | "6039745" | "6080165" | "6162232" | "6196982" | "6235039" | "6241739" | "6250996" | "6299620" | "6319211" | "6391034" | "6423078" | "6432113" | "6629983" | "6652888").PN. OR ("6942649").URPN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2015/07/22 04:16 AM
L24	38	("5037432" | "5100412" | "5810842" | "5971999").PN. OR ("6080165").URPN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2015/07/22 04:17 AM
L25	43	("20010023351" | "2701559" | "2712823" | "2867214" | "2881763" | "2921585" | "3964212" |	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2015/07/22 04:21 AM

		"4378804" | "4957747" | "5012797" | "5037431" | "5037432" | "5100412" | "5154696" | "5207234" | "5800446" | "5810842" | "5954730" | "5971999" | "6019749" | "6039745" | "6042552" | "6080165" | "6196982" | "6235039" | "6241739" | "6250996" | "6319211").PN. OR ("6592595").URPN.					
L26	32	("20010023351" | "5037432" | "5100412" | "5207034" | "5207234" | "5620414" | "5810842" | "5954730" | "5971999" | "6019749" | "6039745" | "6080165" | "6120512" | "6139554" | "6196982" | "6235039" | "6238275" | "6241739" | "6250996" | "6277003" | "6306119" | "6390899").PN. OR ("6673082").URPN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2015/07/22 04:21 AM
L27	19	("3815286" | "5037432" | "5207234" | "5971999").PN. OR ("6238275").URPN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2015/07/22 04:37 AM
L28	38	("4183470" | "5186625" | "5240842" | "5350299" | "5362494" | "5441174" | "5547376" | "5591184" | "5634791" | "5657760" | "5752829" | "Re31887").PN. OR ("6264666").URPN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2015/07/22 04:38 AM
L29	38	("2608032" | "2921585" | "3574239" | "3715838" | "4375740" | "4482322" | "4560373" | "4646480" | "4671867" | "4676749" | "4757814" | "4765099" | "5037431" | "5037432" | "5100412" | "5207234" | "5309683" | "5460604" | "5547376" | "5765759" | "5810587" | "5810842" | "6039745").PN. OR ("6277128").URPN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2015/07/22 04:39 AM
L30	14	("3815286" | "5037431" | "6183148" | "6193589" | "6235039" | "6238275" | "6322568").PN. OR ("6503256").URPN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2015/07/22 04:41 AM
L31	59	("1772545" | "2109259"	(US-PGPUB; USPAT;	OR	OFF	OFF	2015/07/22

		| "2453080" | "2547823" | "2618410" | "2711268" | "2962193" | "3217887" | "3647118").PN. OR ("3930598").URPN.	USOCR)				04:44 AM
L32	82	("0882532" | "1882040" | "1898652" | "2228676" | "2266931" | "2338339" | "2655146" | "2701559" | "2712823" | "2867214" | "2881763" | "2921585" | "3236231" | "3736921" | "3818904" | "3841322" | "3841323" | "3964212" | "4003373" | "4241499" | "4378804" | "4560373" | "4572187" | "4646480" | "4836192" | "4957747" | "5012797" | "5037431" | "5037432" | "5100412" | "5207234" | "5377701" | "5699810" | "5800440" | "5810842" | "5954730" | "5971999" | "6039745" | "6042552" | "6080165" | "6120512" | "6139554" | "6149634" | "6196982" | "6241739" | "6283078" | "6299620" | "6319211" | "6500183" | "6511486").PN. OR ("6695853").URPN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2015/07/22 04:46 AM
L33	107	("2608032" | "2921585" | "3085573" | "3574239" | "3715838" | "4560373" | "4646480" | "4676749" | "4757814").PN. OR ("5037432").URPN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2015/07/22 04:53 AM
L34	33	("20030093089" | "2701559" | "2712823" | "2867214" | "2881763" | "2921585" | "3964312" | "4378804" | "5012797" | "5037431" | "5037432" | "5100412" | "5800446" | "5971999" | "6039745" | "6241739" | "6277128" | "6299620" | "6432114" | "6500183" | "6582442" | "6592595" | "6629983" | "6695853" | "6911031" | "7070488").PN. OR ("7651508").URPN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2015/07/22 04:55 AM
L35	38	("4183470" | "5186625" | "5240842" | "5350299" | "5362494" | "5441174" | "5547376" | "5591184"	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2015/07/22 08:45 AM

		| "5634791" | "5657760" | "5752829" | "Re31887").PN. OR ("6264666").URPN.					
L36	6	(manifold same container same (antimicrobial disenfect$4))	(US-PGPUB; USPAT; EPO; JPO)	OR	OFF	OFF	2015/07/22 10:29 AM
L37	140	(manifold same container same (antimicrobial disenfect$4 surfactant sanitiz$5))	(US-PGPUB; USPAT; EPO; JPO)	OR	OFF	OFF	2015/07/22 10:32 AM
L38	378	(manifold with (clean$4 sanitiz$4) with container)	(US-PGPUB; USPAT; EPO; JPO)	OR	OFF	OFF	2015/07/23 02:44 AM
L39	12	(manifold with (clean$4 sanitiz$4) with container) and (abrasion or microabrasion)	(US-PGPUB; USPAT; EPO; JPO)	OR	OFF	OFF	2015/07/23 02:45 AM
L40	17	("2894732" | "3378234" | "3468637").PN. OR ("3865352").URPN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2015/07/23 03:24 AM
L41	33	("20030093089" | "2701559" | "2712823" | "2867214" | "2881763" | "2921585" | "3964312" | "4378804" | "5012797" | "5037431" | "5037432" | "5100412" | "5800446" | "5971999" | "6039745" | "6241739" | "6277128" | "6299620" | "6432114" | "6500183" | "6582442" | "6592595" | "6629983" | "6695853" | "6911031" | "7070488").PN. OR ("7651508").URPN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2015/07/23 04:06 AM
L42	15	("20010023351" | "20030093089" | "20060116674" | "20070156124" | "6250996" | "7232444" | "7651508" | "D286920" | "D286921" | "D321340" | "D326920" | "D489816" | "D548326").PN. OR ("D627876").URPN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2015/07/23 04:12 AM
L43	15	("5037432" | "5971999").PN. OR ("6250996").URPN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2015/07/23 04:13 AM
L44	8	("20010023351" | "20030093089" |	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2015/07/23 04:14 AM

		"20030212415" | "6250996" | "D450842").PN. OR ("D503979").URPN.					
L45	16	("20010023351" | "20030093089" | "20070156124" | "4653474" | "6250996" | "7232444" | "D192841" | "D224070" | "D249550" | "D326920" | "D475463" | "D489816" | "D627876").PN. OR ("D682414").URPN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2015/07/23 04:15 AM
L46	47	("7083580"|"7087063"|"7094252"|"7115275"|"7135011"|"7153311"|"7197359"|"7198623"|"7241208"|"7276051"|"7314326"|"7316657"|"7318828"|"7320691"|"7352801"|"7354423"|"7364565"|"7384405"|"7427273"|"7458944"|"7476205"|"7477938"|"7482314"|"7489989"|"7507067"|"7579900"|"7597901"|"7658742"|"7678120"|"7744582"|"7789886"|"7837695"|"7901373"|"7951156"|"8025669"|"8048089"|"8066716"|"8088085"|"8128638"|"8221437"|"8236008"|"8277287"|"8337513"|"8343116"|"8814836"|"RE37796"|"RE42960").PN.	(US-PGPUB; USPAT)	OR	OFF	OFF	2016/02/23 07:32 AM
L47	3	("20080154161"|"20080208146"|"20160038183").PN.	(US-PGPUB; USPAT)	OR	OFF	OFF	2016/08/17 04:17 AM
L48	5577	A61B17/54,545.cpc. or A61B19/0248.cpc. or A61B2019/025.cpc. or A61B2017/00199.cpc. or A61B2017/00017.cpc. or A61B2217/005,007.cpc.	(US-PGPUB; USPAT)	OR	OFF	OFF	2016/08/17 04:39 AM
L49	442	L48 and (manifold)	(US-PGPUB; USPAT)	OR	OFF	OFF	2016/08/17 04:39 AM
L50	250	L48 and (manifold) and liquid	(US-PGPUB; USPAT)	OR	OFF	OFF	2016/08/17 04:42 AM
L51	11	("5037431" | "5037432" | "5100412" | "5810842").PN. OR ("6562050").URPN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2016/08/17 04:45 AM

L52	40	("4183470" | "5186625" | "5240842" | "5350299" | "5362494" | "5441174" | "5547376" | "5591184" | "5634791" | "5657760" | "5752829" | "Re31887").PN. OR ("6264666").URPN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2016/08/17 05:14 AM
L53	83	("0882532" | "1882040" | "1898652" | "2228676" | "2266931" | "2338339" | "2655146" | "2701559" | "2712823" | "2867214" | "2881763" | "2921585" | "3236231" | "3736921" | "3818904" | "3841322" | "3841323" | "3964212" | "4003373" | "4241499" | "4378804" | "4560373" | "4572187" | "4646480" | "4836192" | "4957747" | "5012797" | "5037431" | "5037432" | "5100412" | "5207234" | "5377701" | "5699810" | "5800440" | "5810842" | "5954730" | "5971999" | "6039745" | "6042552" | "6080165" | "6120512" | "6139554" | "6149634" | "6196982" | "6241739" | "6283078" | "6299620" | "6319211" | "6500183" | "6511486").PN. OR ("6695853").URPN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2016/08/17 05:15 AM
L54	13	("20010023351" | "20020133176" | "20020169461" | "20020183702" | "20030097139" | "20050277950" | "20060086634" | "20060129140" | "20060161178" | "20070156124" | "20070265586" | "20100030132" | "6846218").PN. OR ("8986323").URPN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2016/08/17 05:19 AM
L55	7	("20030208159"|"6322568"|"8236008"|"20020151908"|"20090125023"|"20110009882"|"20120136374").PN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2016/08/17 05:55 AM
L56	879	microdermabrasion	(US-PGPUB; USPAT)	OR	OFF	OFF	2016/08/17 06:14 AM

L57	0	14/698,67.	(US-PGPUB; USPAT; EPO; JPO)	OR	OFF	OFF	2016/08/17 08:22 AM
L58	1	14/698,673	(US-PGPUB; USPAT; EPO; JPO)	OR	OFF	OFF	2016/08/17 08:22 AM
L59	406	A61B17/50.cpc.	(US-PGPUB; USPAT)	OR	OFF	OFF	2016/08/17 08:25 AM
L60	1002	A61M35/003.cpc.	(US-PGPUB; USPAT)	OR	OFF	OFF	2016/08/17 09:03 AM
L61	453	A61B2017/00761.cpc.	(US-PGPUB; USPAT)	OR	OFF	OFF	2016/08/17 09:04 AM
L62	1533	A61N5/0616.cpc.	(US-PGPUB; USPAT)	OR	OFF	OFF	2016/08/17 09:05 AM
L63	952	A61B2017/320004.cpc.	(US-PGPUB; USPAT)	OR	OFF	OFF	2016/08/17 09:05 AM
L64	641	A61B50/10.cpc.	(US-PGPUB; USPAT; EPO; JPO)	OR	OFF	OFF	2016/08/18 07:47 AM
L65	16	A61B50/10.cpc. and (microdermabra$5 or abra$5)	(US-PGPUB; USPAT; EPO; JPO)	OR	OFF	OFF	2016/08/18 08:00 AM
L66	622	A61B50/13.cpc.	(US-PGPUB; USPAT; EPO; JPO)	OR	OFF	OFF	2016/08/18 08:02 AM
L67	252	L66 not L64	(US-PGPUB; USPAT; EPO; JPO)	OR	OFF	OFF	2016/08/18 08:02 AM
L68	17	11/392,348	(US-PGPUB; USPAT)	OR	OFF	OFF	2016/08/18 08:12 AM
L77	400	A61B17/3205.cpc.	(US-PGPUB; USPAT)	OR	OFF	OFF	2016/08/18 09:19 AM
L78	4	(skin AND console AND input$4 AND hand$7 AND fluid AND manifold AND source).clm.	(US-PGPUB; USPAT; USOCR; FIT (CN, FR, WO); FPRS; EPO)	OR	ON	ON	2021/02/27 08:40 PM
L79	89	(console WITH input$4) AND skin AND hand$7 AND (manifold WITH fluid)	(US-PGPUB; USPAT; USOCR; FIT (CN, FR, WO); FPRS; EPO)	OR	ON	ON	2021/02/27 08:45 PM
L80	1	09/271,012	(US-PGPUB; USPAT; USOCR; FIT (CN, FR, WO); FPRS; EPO)	OR	ON	ON	2021/02/27 08:49 PM
L81	59	("Re31887" | "4183470" | "5186625" | "5240842" | "5350299" | "5362494" | "5441174" | "5547376" | "5591184" | "5634791" | "5657760" | "5752829").pn. OR ("6264666").urpn. AND (PGPB | USPT | USOC).dbnm.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/03/01 01:18 PM
L82	58	("2608032" | "2921585" | "3574239" | "3715838" | "4375740" | "4482322" | "4560373" | "4646480"	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/03/01 01:49 PM

		| "4671867" | "4676749" | "4757814" | "4765099" | "5037431" | "5037432" | "5100412" | "5207234" | "5309683" | "5460604" | "5547376" | "5765759" | "5810587" | "5810842" | "6039745").pn. OR ("6277128").urpn. AND (PGPB | USPT | USOC).dbnm.					
L83	56	(console SAME (handle handpiece)) AND (dermabrasion skin) AND (manifold SAME fluid SAME console)	(US-PGPUB; USPAT; USOCR; FIT (CN, FR, WO); FPRS; EPO)	OR	ON	ON	2021/03/01 01:53 PM
L84	116	("6024733"|"6139553"|"20070088371"|"5800446"|"5810842"|"6039745"|"6042552"|"6183483"|"6238275"|"6241739"|"6423078"|"6471712"|"6527783"|"6673082"|"6869611"|"3574239"|"5100412"|"6695853"|"20020128663"|"20090192442"|"20100049177"|"3964212"|"4378804"|"6090085"|"6942649"|"7789886"|"4182329"|"6299620"|"6277128"|"20030060834"|"20040127914"|"20070208353"|"20090177171"|"20090222023"|"5122153"|"5882201"|"7318828"|"20060200172"|"6629983"|"2712823"|"20020107527"|"20110054490"|"4121388"|"4706676"|"4957747"|"5037432"|"5674235"|"6592595"|"6641591"|"6926681"|"7678120"|"2921585"|"20030212415"|"6019749"|"2608032"|"20050283176"|"20070005078"|"20100045427"|"4203431"|"4676749"|"5873881"|"6283978"|"6685853"|"7087063"|"7153311"|"7482314"|"7837695"|"20060200173"|"3476112"|"2867214"|"2701559"|"20060253125"|"3715838"|"4155721"|"4216233"|"4560373"|"4646482"|"4757814"|"5012797"|"50	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/03/09 05:55 PM

		35089"|"5037431"|"5207234"|"5222956"|"6080166"|"6306119"|"6387103"|"7354423"|"7658742"|"4900316"|"6139554"|"20030097139"|"4917086"|"5759185"|"3085573"|"2881763"|"3214869"|"4646480"|"4754756"|"5612797"|"5971999"|"6080165"|"6136008"|"6149634"|"6162232"|"6500183"|"6582442"|"6911031").PN.					
L85	58	("2608032" | "2921585" | "3574239" | "3715838" | "4375740" | "4482322" | "4560373" | "4646480" | "4671867" | "4676749" | "4757814" | "4765099" | "5037431" | "5037432" | "5100412" | "5207234" | "5309683" | "5460604" | "5547376" | "5765759" | "5810587" | "5810842" | "6039745").pn. OR ("6277128").urpn. AND (PGPB | USPT | USOC).dbnm.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/03/09 06:01 PM
L86	4	(console AND (skin dermis derma$7) AND input AND (handle handpiece) AND (fluid water) AND manifold AND source).clm.	(US-PGPUB; USPAT; USOCR; FIT (CN, FR, WO); FPRS; EPO)	OR	ON	ON	2021/03/09 06:10 PM
L87	368	("2608032" | "2631583" | "2701559" | "2712823" | "2867214" | "2881763" | "2921585" | "3085573" | "3214869" | "3476112" | "3574239" | "3715838" | "3865352" | "3948265" | "3964212" | "3977084" | "4121388" | "4155721" | "4170821" | "4182329" | "4203431" | "4216233" | "4299219" | "4378804" | "4560373" | "4646480" | "4646482" | "4655743" | "4676749" | "4706676" | "4754756" | "4757814" | "4764362" | "4795421" | "4875287" | "4886078" | "4887994" | "4900316" | "4917086" | "4925450" | "4957747" | "5006004" | "5006339" | "5012797"	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/03/09 06:10 PM

		| "5035089" | "5037431" | "5037432" | "5100412" | "5100424" | "5119839" | "5122153" | "5207234" | "5222956" | "5242433" | "5254109" | "5368581" | "5391151" | "5417674" | "5419772" | "5460620" | "5470323" | "5484427" | "5562642" | "5611687" | "5674235" | "5676643" | "5676648" | "5683971" | "5697920" | "5707383" | "5713785" | "5735833" | "5759185" | "5779519" | "5800446" | "5807353" | "5810842" | "5813416" | "5817050" | "5846215" | "5848998" | "5861142" | "5873881" | "5879323" | "5882201" | "5885260" | "5908401" | "5919152" | "5954730" | "5971999" | "5980555" | "6019749" | "6024733" | "6027402" | "6039745" | "6042552" | "6080165" | "6080166" | "6090085" | "6120512" | "6129701" | "6136008" | "6139553" | "6139554" | "6142155" | "6149634" | "6159226" | "6162218" | "6162232" | "6183451" | "6183483" | "6193589" | "6231593" | "6235039" | "6238275" | "6241739" | "6264666" | "6277128" | "6283978" | "6299620" | "6306119" | "6306147" | "6322568" | "6368333" | "6387103" | "6409736" | "6410599" | "RE37796" | "6414032" | "6420431" | "6423078" | "6423750" | "6432113" | "6432114" | "6471712" | "6477410" | "6482212" | "6488646" | "6494856" | "6500183" | "6503256" | "6511486" | "6514262" | "6527783" | "6535761" | "6540757" | "6562013" | "6562050" | "6564093" | "6565535" | "6582442" | "6589218" | "6592595" | "6629983" | "6641591" | "6645184" | "6652888" | "6673081" | "6673082"					

		| "6685853" | "6687537" | "6695853" | "6735470" | "6743211" | "6743215" | "6764493" | "6869611" | "6905487" | "6911031" | "6924649" | "6926681" | "6942649" | "7001355" | "7004933" | "7044938" | "7052503" | "7069073" | "7070488" | "7083580" | "7087063" | "7094252" | "7115275" | "7135011" | "7153311" | "7197359" | "7198623" | "7232444" | "7241208" | "7276051" | "7314326" | "7316657" | "7318828" | "7320691" | "7320801" | "7354423" | "7364565" | "7384405" | "7427273" | "7458944" | "7476205" | "7477938" | "7482314" | "7489989" | "7507228" | "7582067" | "7597900" | "7597901" | "7658742" | "7678120" | "7744582" | "7789886" | "7837695" | "7901373" | "7951156" | "8025669" | "RE42960" | "8048089" | "8066716" | "8088085" | "8128638" | "8221437" | "8236008" | "8277287" | "8337513" | "8343116" | "8814836" | "9056193" | "20010023351" | "20010037118" | "20010049511" | "20020016601" | "20020041891" | "20020058952" | "20020107527" | "20020133110" | "20020133176" | "20020151826" | "20020151908" | "20020188261" | "20030012415" | "20030018252" | "20030060834" | "20030093040" | "20030093089" | "20030097139" | "20030167032" | "20030187462" | "20030208159" | "20030212127" | "20030212415" |				

		"20040010222" | "20040010269" | "20040087972" | "20040092895" | "20040092959" | "20040097967" | "20040122447" | "20040143274" | "20040162565" | "20040166172" | "20040219179" | "20040236291" | "20040243149" | "20040254587" | "20040267285" | "20050037034" | "20050038448" | "20050059940" | "20050084509" | "20050148958" | "20050203111" | "20050209611" | "20050283176" | "20060002960" | "20060116674" | "20060161178" | "20060189964" | "20060191562" | "20060200099" | "20060200172" | "20060200173" | "20060212029" | "20060253125" | "20060264893" | "20070005078" | "20070043382" | "20070065515" | "20070088371" | "20070123808" | "20070154502" | "20070156124" | "20070178121" | "20070198031" | "20070208353" | "20070239173" | "20080027328" | "20080091179" | "20080103563" | "20080119781" | "20080132914" | "20080139974" | "20080154161" | "20080193493" | "20080200861" | "20080208146" | "20080214987" | "20080215068" | "20080221548" |				

		"20080243039" | "20080287864" | "20080300529" | "20080300552" | "20090048557" | "20090053390" | "20090062815" | "20090099091" | "20090099093" | "20090124985" | "20090138026" | "20090177171" | "20090192442" | "20090222023" | "20100045427" | "20100049177" | "20100049210" | "20100217357" | "20110054490" | "20110066162" | "20110082415" | "20120022435" | "20120041338" | "20120136374" | "20130018317" | "20130066336" | "20130096577" | "20130102978" | "20130144280" | "20130158547" | "20140343481" | "20140343574" | "20150032047" | "20150230824" | "20150230825" | "20150231379" | "20150265822" | "20150290442" | "20160038183").pn. OR ("9550052").urpn. AND (PGPB | USPT | USOC).dbnm.					
L88	28	("10485983" "8518001" "9084587" "10220122" "7384405" "6283978" "6471712" "9005173" "20170245876" "10898227" "20180289936" "20130158547" "8433400" "7318828" "20040077977" "20090254155").pn.	(US-PGPUB; USPAT; USOCR; FIT (CN, FR, WO); FPRS; EPO)	OR	ON	ON	2021/03/09 09:53 PM
L89	16	("10485983" "8518001" "9084587" "10220122" "7384405" "6283978" "6471712" "9005173"	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/03/09 09:53 PM

		"20170245876" "10898227" "20180289936" "20130158547" "8433400" "7318828" "20040077977" "20090254155").pn.					
L90	682711	A61B17/$.cpc. OR A61B2017/$.cpc.	(US-PGPUB; USPAT; USOCR; FIT (CN, FR, WO); FPRS; EPO)	OR	ON	ON	2021/03/09 11:37 PM
L91	286	L90 AND (manifold WITH (releasab$4 detach$4 remov$4) WITH (container bottle source canister))	(US-PGPUB; USPAT; USOCR; FIT (CN, FR, WO); FPRS; EPO)	OR	ON	ON	2021/03/09 11:38 PM
L92	30	12/340,595	(US-PGPUB; USPAT; USOCR; FIT (CN, FR, WO); FPRS; EPO)	OR	ON	ON	2021/03/09 11:43 PM
L93	59	("Re31887" | "4183470" | "5186625" | "5240842" | "5350299" | "5362494" | "5441174" | "5547376" | "5591184" | "5634791" | "5657760" | "5752829").pn. OR ("6264666").urpn. AND (PGPB | USPT | USOC).dbnm.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/03/13 07:39 PM
L94	33	("2661537" | "2696049" | "3344524" | "3971375" | "4180812" | "4276023" | "4492575" | "4494932" | "4635897" | "4708534" | "4767404" | "4826431" | "4893440" | "4941298" | "5109637").pn. OR ("5752829").urpn. AND (PGPB | USPT | USOC).dbnm.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/03/13 07:54 PM
L95	63	("1772545" | "2109259" | "2453080" | "2547823" | "2618410" | "2711268" | "2962193" | "3217887" | "3647118").pn. OR ("3930598").urpn. AND (PGPB | USPT | USOC).dbnm.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/03/13 08:19 PM
L96	4	("20010049511" "20030093089" "20030018252" "3865352").pn.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/04/19 04:59 PM
L97	890	("10076646"|"10130390"|"10188193"|"10206743"|"10220122"|"10314378"|"10334933"|"10369	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, CA, CH, CN, DD, DE, EA, EP, ES, FR,	OR	ON	ON	2021/09/02 02:46 PM

		073"|"10456321"|"1045 6567"|"10485983"|"105 24835"|"10667985"|"10 737080"|"10758261"|"1 0918190"|"10946191"|" 10993743"|"11020577"| "20040138680"|"20070 139630"|"20110295273 "|"20130144207"|"2014 0079686"|"2014023400 4"|"20140343481"|"201 40378887"|"201600181 00"|"20160038183"|"20 160235257"|"20160250 415"|"20170043150"|"2 0180140329"|"2018018 5675"|"20190070069"|" 20190151637"|"202000 09007"|"20200179220"| "20200289161"|"20200 316270"|"20200338586 "|"20200390468"|"2021 0085367"|"2021014548 0"|"20210145481"|"202 10154453"|"202101544 54"|"20210154455"|"20 210177463"|"3560100"| "4342522"|"4500222"|"6 508813"|"6537242"|"66 26445"|"6629927"|"693 8805"|"7051907"|"7166 086"|"7316671"|"74225 67"|"7857806"|"823129 2"|"8475507"|"8573874" |"8579916"|"8721662"|" 8858570"|"8939669"|"8 945104"|"9050133"|"90 72533"|"9517085"|"970 0684"|"9731053"|"9775 645"|"9833261"|"98614 42"|"9918727"|"994955 2"|"9950147"|"9955769" |"D486915"|"D496101"|" D522360"|"D553005"|" D584151"|"D664254"|" D678783"|"D709617"|" D722172"|"D743558"|" D787054"|"D811381"|" D822845"|"D825763"|" D836781"|"D851759"|" D852962"|"D861913"|" D867587"|"D868981"|" D893024"|"10035007"|" 10172644"|"10179229"| "10238812"|"10251675" |"10357641"|"10357642 "|"10556096"|"1055609 7"|"1651585"|"2001002	GB, JP, KR, OA, RU, SU, WO); EPO)				

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		8"|"4887994"|"4900316" |"4917086"|"4925450"|" 4940350"|"4957747"|"5 006004"|"5006339"|"50 12797"|"5035089"|"503 7431"|"5037432"|"5054 339"|"5100412"|"51004 24"|"5119839"|"512215 3"|"5171215"|"5192269" |"5207234"|"5222956"|" 5242433"|"5254109"|"5 368581"|"5387215"|"53 91151"|"5417674"|"541 9772"|"5441490"|"5460 620"|"5470323"|"54844 27"|"5490736"|"551204 4"|"5562642"|"5562643" |"5611687"|"5612797"|" 5674235"|"5676643"|"5 676648"|"5683971"|"56 97920"|"5707383"|"571 3785"|"5735833"|"5759 185"|"5762640"|"57795 19"|"5800446"|"580735 3"|"5810842"|"5813416" |"5817050"|"5834510"|" 5846215"|"5848998"|"5 857995"|"5861142"|"58 73881"|"5879323"|"588 2201"|"5885260"|"5908 401"|"5919152"|"59547 30"|"5971999"|"598055 5"|"6019749"|"6023639" |"6024733"|"6027402"|" 6039745"|"6042552"|"6 080165"|"6080166"|"60 90085"|"6120512"|"612 9701"|"6136008"|"6139 553"|"6139554"|"61421 55"|"6149634"|"615922 6"|"6162218"|"6162232" |"6165059"|"6183451"|" 6183483"|"6193589"|"6 196982"|"6231593"|"62 35039"|"6238275"|"624 1739"|"6264666"|"6277 128"|"6283978"|"62996 20"|"6306119"|"630614 7"|"6322548"|"6322568" |"6332886"|"6368333"|" 6387103"|"6401289"|"6 409736"|"6410599"|"64 14032"|"6420431"|"642 3078"|"6423750"|"6432 113"|"6432114"|"64717 12"|"6477410"|"648221 2"|"6488646"|"6494856" |"6500183"|"6503256"|"					

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		10993743"|"11020577"|"20040138680"|"20070139630"|"20110295273"|"20130144207"|"20140079686"|"20140234004"|"20140343481"|"20140378887"|"20160018100"|"20160038183"|"20160235257"|"20160250415"|"20170043150"|"20180140329"|"20180185675"|"20190070069"|"20190151637"|"20200009007"|"20200179220"|"20200289161"|"20200316270"|"20200338586"|"20200390468"|"20210085367"|"2021014548 0"|"20210145481"|"20210154453"|"20210154454"|"20210154455"|"20210177463"|"3560100"|"4342522"|"4500222"|"6508813"|"6537242"|"6626445"|"6629927"|"6938805"|"7051907"|"7166086"|"7316671"|"7422567"|"7857806"|"8231292"|"8475507"|"8573874"|"8579916"|"8721662"|"8858570"|"8939669"|"8945104"|"9050133"|"9072533"|"9517085"|"9700684"|"9731053"|"9775645"|"9833261"|"9861442"|"9918727"|"9949552"|"9950147"|"9955769"|"D486915"|"D496101"|"D522360"|"D553005"|"D584151"|"D664254"|"D678783"|"D709617"|"D722172"|"D743558"|"D787054"|"D811381"|"D822845"|"D825763"|"D836781"|"D851759"|"D852962"|"D861913"|"D867587"|"D868981"|"D893024"|"10035007"|"10172644"|"10179229"|"10238812"|"10251675"|"10357641"|"10357642"|"10556096"|"10556097"|"1651585"|"20010023351"|"20010037118"|"20010049511"|"20020016601"|"20020041891"|"20020058952"|"20020107527"|"20020128663					

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		PGPB.dbnm.)	SK, TH, TN, TR, TW, UA, VN))				
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PE2E SEARCH - Search History (Interference)

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N69	0	(console and manifold and contain$4 and skin and liquid and (handpiece handle) and tip and (vacuum suction) and (conduit tube) and treat$4).clm.	(US-PGPUB; USPAT)	OR	OFF	OFF	2016/08/18 08:08 AM
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N73	3	(manifold and skin and (handpiece handle) and tip and (vacuum suction) and (conduit tube)).clm.	(US-PGPUB; USPAT)	OR	OFF	OFF	2016/08/18 08:09 AM
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PTO/SB/08 Equivalent

INFORMATION DISCLOSURE STATEMENT BY APPLICANT	Application No.	16/517,268
	Filing Date	July 19, 2019
	First Named Inventor	Roger Ignon
	Art Unit	3771
(Multiple sheets used when necessary)	Examiner	Knauss, Christian D.
SHEET 1 OF 6	Attorney Docket No.	EDGE.005C7

U.S. PATENT DOCUMENTS					
Examiner Initials	Cite No.	Document Number *Number - Kind Code (if known)* Example: 1,234,567 B1	Publication Date MM-DD-YYYY	Name	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear
	1	3,560,100	02-02-1971	Spatz	
	2	4,342,522	08-03-1982	Mackles	
	3	4,500,222	02-19-1985	Clading-Boel	
	4	6,508,813	01-21-2003	Altshuler	
	5	6,537,242	03-25-2003	Palmer	
	6	6,626,445	09-30-2003	Murphy, et al.	
	7	6,629,927	10-07-2003	Mesaros, et al.	
	8	6,938,805	09-06-2005	Brincat	
	9	7,051,907	05-30-2006	Brincat	
	10	7,166,086	01-23-2007	Haider et al.	
	11	7,316,671	01-08-2008	Lastovich et al.	
	12	7,422,567	09-09-2008	Lastovich et al.	
	13	7,857,806	12-28-2010	Karpowicz et al.	
	14	8,231,292	07-31-2012	Rabe et al.	
	15	8,475,507	07-02-2013	Dewey et al.	
	16	8,573,874	11-05-2013	Neuner	
	17	8,579,916	11-12-2013	Cheney	
	18	8,721,662	05-13-2014	Karasiuk	
	19	8,858,570	10-14-2014	Chang	
	20	8,939,669	01-27-2015	Le et al.	
	21	8,945,104	02-03-2015	Boone, III et al.	
	22	9,050,133	06-09-2015	Boone, III et al.	
	23	9,072,533	07-07-2015	Liu et al.	
	24	9,517,085	12-13-2016	Karasiuk	
	25	9,700,684	07-11-2017	Vlodaver et al.	
	26	9,731,053	08-15-2017	Alai	
	27	9,775,645	10-03-2017	Boone, III	
	28	9,833,261	12-05-2017	Boone, III et al.	
	29	9,861,442	01-09-2018	Tankovich et al.	

Examiner Signature	/CHRISTIAN D KNAUSS/	Date Considered	09/08/2021

***Examiner:** Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

T[1] - Place a check mark in this area when an English language Translation is attached.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /C.D.K/

PTO/SB/08 Equivalent

INFORMATION DISCLOSURE STATEMENT BY APPLICANT	Application No.	16/517,268
	Filing Date	July 19, 2019
	First Named Inventor	Roger Ignon
	Art Unit	3771
(Multiple sheets used when necessary)	Examiner	Knauss, Christian D.
SHEET 2 OF 6	Attorney Docket No.	EDGE.005C7

U.S. PATENT DOCUMENTS					
Examiner Initials	Cite No.	Document Number *Number - Kind Code (if known)* Example: 1,234,567 B1	Publication Date MM-DD-YYYY	Name	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear
	30	9,918,727	03-20-2018	Boone, III et al.	
	31	9,949,552	04-24-2018	Rabe et al.	
	32	9,950,147	04-24-2018	Mehta	
	33	9,955,769	05-01-2018	Rabe et al.	
	34	10,076,646	09-18-2018	Casasanta, III et al.	
	35	10,130,390	11-20-2018	Hart et al.	
	36	10,188,193	01-29-2019	Rabe et al.	
	37	10,206,743	02-19-2019	Tankovich et al.	
	38	10,220,122	03-05-2019	Clark, III et al.	
	39	10,314,378	06-11-2019	Rabe et al.	
	40	10,334,933	08-06-2019	Rosario et al.	
	41	10,369,073	08-06-2019	Rosario et al.	
	42	10,456,321	10-29-2019	Shadduck	
	43	10,456,567	10-29-2019	Streeter	
	44	10,485,983	11-26-2019	Boone, III et al.	
	45	10,524,835	01-07-2020	Shadduck et al.	
	46	10,667,985	06-02-2020	Decaux et al.	
	47	10,737,080	08-11-2020	Patterson	
	48	10,758,261	09-01-2020	Richardson	
	49	10,918,190	02-16-2021	Laudati	
	50	10,946,191	03-16-2021	Cazares Delgadillo	
	51	10,993,743	05-04-2021	Ignon, et al.	
	52	11,020,577	06-01-2021	Ignon, et al.	
	53	D486,915	02-17-2004	Warschewske, et al.	
	54	D496,101	09-14-2004	Davison	
	55	D522,360	06-06-2006	Caserta et al.	
	56	D553,005	10-16-2007	Py et al.	
	57	D584,151	01-06-2009	Murphy	
	58	D664,254	07-24-2012	Yokoyama, et al.	

Examiner Signature	/CHRISTIAN D KNAUSS/	Date Considered	09/08/2021

***Examiner:** Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

T[1] - Place a check mark in this area when an English language Translation is attached.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /C.D.K/

PTO/SB/08 Equivalent

INFORMATION DISCLOSURE STATEMENT BY APPLICANT	Application No.	16/517,268
	Filing Date	July 19, 2019
	First Named Inventor	Roger Ignon
	Art Unit	3771
(Multiple sheets used when necessary)	Examiner	Knauss, Christian D.
SHEET 3 OF 6	Attorney Docket No.	EDGE.005C7

U.S. PATENT DOCUMENTS					
Examiner Initials	Cite No.	Document Number *Number - Kind Code (if known)* Example: 1,234,567 B1	Publication Date MM-DD-YYYY	Name	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear
	59	D678,783	03-26-2013	Wilcox et al.	
	60	D709,617	07-22-2014	Iliesco de Grimaldi et al.	
	61	D722,172	02-03-2015	Amemiya, et al.	
	62	D743,558	11-17-2015	Kim, et al.	
	63	D787,054	05-16-2017	Rini et al.	
	64	D811,381	02-27-2018	Morohoshi, et al.	
	65	D822,845	07-10-2018	Shimobayashi, et al.	
	66	D825,763	08-14-2018	Lim, et al.	
	67	D836,781	12-25-2018	Meurer, et al.	
	68	D851,759	06-18-2019	Jones et al.	
	69	D852,962	07-02-2019	Chang	
	70	D861,913	10-01-2019	Stamm et al.	
	71	D868,981	12-03-2019	Salamon et al.	
	72	D867,587	11-19-2019	Holtz	
	73	D893,024	08-11-2020	Whiteside	
	74	2004/0138680	07-15-2004	Twitchell, et al.	
	75	2007/0139630	06-21-2007	Kleman, et al.	
	76	2011/0295273	12-01-2011	Waldron, et al.	
	77	2013/0144207	06-06-2013	Gonon	
	78	2014/0079686	03-20-2014	Barman et al.	
	79	2014/0234004	08-21-2014	Thorpe et al.	
	80	2014/0343481	11-20-2014	Ignon	
	81	2014/0378887	12-25-2014	Chang et al.	
	82	2016/0018100	01-21-2016	Batt et al.	
	83	2016/0038183	02-11-2016	Ignon, et al.	
	84	2016/0235257	08-18-2016	Daffer	
	85	2016/0250415	09-01-2016	Yagi et al.	
	86	2017/0043150	02-16-2017	Kim	
	87	2018/0140329	05-24-2018	Beijens et al.	

Examiner Signature	/CHRISTIAN D KNAUSS/	Date Considered	09/08/2021

***Examiner:** Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

T[1] - Place a check mark in this area when an English language Translation is attached.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /C.D.K/

PTO/SB/08 Equivalent

INFORMATION DISCLOSURE STATEMENT BY APPLICANT	Application No.	16/517,268
	Filing Date	July 19, 2019
	First Named Inventor	Roger Ignon
	Art Unit	3771
(Multiple sheets used when necessary)	Examiner	Knauss, Christian D.
SHEET 4 OF 6	Attorney Docket No.	EDGE.005C7

U.S. PATENT DOCUMENTS					
Examiner Initials	Cite No.	Document Number *Number - Kind Code (if known)* Example: 1,234,567 B1	Publication Date MM-DD-YYYY	Name	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear
	88	2018/0185675	07-05-2018	Kern et al.	
	89	2019/0070069	03-07-2019	Gertner et al.	
	90	2019/0151637	05-23-2019	Groop et al.	
	91	2020/0009007	01-09-2020	Shadduck	
	92	2020/0179220	06-11-2020	Jablow	
	93	2020/0289161	09-17-2020	Scooros	
	94	2020/0316270	10-08-2020	Dijkstra et al.	
	95	2020/0338586	10-29-2020	Park	
	96	2020/0390468	12-17-2020	Alexander	
	97	2021/0085367	03-25-2021	Shadduck et al.	
	98	2021/0145480	05-20-2021	Ignon, et al.	
	99	2021/0145481	05-20-2021	Ignon, et al.	
	100	2021/0154453	05-27-2021	Ignon, et al.	
	101	2021/0154454	05-27-2021	Ignon, et al.	
	102	2021/0154455	05-27-2021	Ignon, et al.	
	103	2021/0177463	06-17-2021	Ignon, et al.	

FOREIGN PATENT DOCUMENTS						
Examiner Initials	Cite No.	Foreign Patent Document *Country Code-Number-Kind Code* Example: JP 1234567 A1	Publication Date MM-DD-YYYY	Name	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear	T[1]
	104	CN 107920948	04-17-2018	Edge Systems LLC		
	105	EP 1238643	04-07-2000	S.O.R Internacional		
	106	EP 1 453 558	09-08-2004	Envy Medical, Inc.		
	107	EP 2240099	02-21-2018	Edge Systems LLC.		
	108	EP 2451367	01-22-2020	Edge Systems LLC.		
	109	EP 2544563	09-16-2015	LRC Products Limited		
	110	EP 2618797	04-08-2020	Sharon Hilditch		
	111	EP 2967633	04-25-2018	Edge Systems LLC		

Examiner Signature	/CHRISTIAN D KNAUSS/	Date Considered	09/08/2021

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	Filing Date	July 19, 2019
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SHEET 5 OF 6	Attorney Docket No.	EDGE.005C7

FOREIGN PATENT DOCUMENTS						
Examiner Initials	Cite No.	Foreign Patent Document *Country Code-Number-Kind Code* Example: JP 1234567 A1	Publication Date MM-DD-YYYY	Name	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear	T[1]
	112	EP 3 217 899	05-19-2016	CYTRELLIS BIOSYSTEMS INC		
	113	EP 3237055	08-12-2020	Edge Systems LLC		
	114	EP 3 302 319	04-11-2018	Koninklijke Philips N.V.		
	115	EP 3319573	05-16-2018	Edge Systems LLC		
	116	EP 3 340 908	07-04-2018	Koninklijke Philips N.V.		
	117	EP 3388006	03-04-2020	Edge Systems LLC		
	118	EP 3437575	04-21-2021	Edge Systems LLC.		
	119	EP 3795204	03-24-2021	Edge Systems LLC.		
	120	JP (53-118927) S55-034863	08-29-1963			
	121	JP 5508285	03-28-2014	Edge Systems Corporation		
	122	JP 2010/042243	02-25-2010	LPG Finance Ind		
	123	JP 2012527967	11-12-2012	General Hospital Corp		
	124	JP 2018-527052	09-20-2018	Edge Systems LLC		
	125	KR 10-1836310	03-02-2018	Edge Systems LLC		
	126	KR 10-2018-0030607	03-23-2018	Edge Systems LLC		
	127	WO 00/79540	12-28-2000	DAUGHTON JAMES M; NONVOLATILE ELECTRONICS INC; POHM ARTHUR V		
	128	WO 2011/006009	01-13-2011	Edge Systems Corporation		
	129	WO 2011/110840	09-15-2011	LRC Products Limited		
	130	WO 2014/091035	06-19-2014	Decaux		
	131	WO 2021/018765	02-04-2021	L'Oreal		

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T[1]

Examiner Signature	/CHRISTIAN D KNAUSS/	Date Considered	09/08/2021

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT	Application No.	16/517,268
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NON PATENT LITERATURE DOCUMENTS			
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	132	HYDRAFACIAL® TOWER - User guide. Edge Systems. Revised june 23, 2016. Page no. 16.	

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Examiner Signature	/CHRISTIAN D KNAUSS/	Date Considered	09/08/2021

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Inventor	:	Roger Ignon et al.
Appl. No.	:	16/517,268
Filed	:	July 19, 2019
For	:	DEVICES AND METHODS FOR TREATING SKIN
Examiner	:	Christian D. Knauss
Art Unit	:	3771
Conf. No.	:	9432

RESPONSE TO OFFICE ACTION

Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Commissioner:

This response is being submitted following the Office Action mailed on March 22, 2021 for the above-referenced application (the "Office Action").

Amendments to the Claims are reflected in the listing of claims which begins on page 2 of this paper.

Summary of Interview begins on page 5 of this paper.

Remarks begin on page 6 of this paper.

AMENDMENTS TO THE CLAIMS

The following listing of claims replaces all prior versions and listings of claims in the application. The listing of claims presents each claim with its respective status shown in parentheses.

1. (*Canceled*)

2. (*Currently Amended*) A skin treatment system comprising:

a manifold system in communication with a first container and at least a second container, wherein each of the first container and the at least second container is configured to contain a treatment material, the manifold system being positioned in or on a console;

a supply conduit placing the manifold system in fluid communication with a handpiece assembly;

wherein the handpiece assembly comprises a working end having a skin contact surface;

a vacuum source;

a waste conduit in fluid communication with the handpiece assembly and the vacuum source to move waste away from the working end of the handpiece assembly during a skin treatment procedure; and

at least one control ~~switch~~ to permit control of a flow of treatment material from the first container and the at least second container through the supply conduit to the handpiece assembly;

wherein the vacuum source is configured to create a suction force within the waste conduit and along the working end of the handpiece assembly to help remove waste from the handpiece assembly via the waste conduit.

3. (*Previously Presented*) The system of Claim 2, further comprising a computing device configured to control at least one function of the system.

4. (*Previously Presented*) The system of Claim 2, further comprising a user input device to facilitate control of a flow of treatment material from at least one of the first container and the at least second container to the handpiece assembly.

5. (*Previously Presented*) The system of Claim 4, wherein the user input device comprises a touch screen.

6. (*Previously Presented*) The system of Claim 2, further comprising a display.

7. (*Currently Amended*) The system of Claim 2, wherein the manifold system is in fluid communication with at least four containers.

8. (*Currently Amended*) The system of Claim 2, ~~the system is configured so that~~wherein the first container and the at least second container are configured to releasably couple to the manifold system.

9. (*Currently Amended*) The system of Claim 2, wherein treatment materials from the first container and the at least second container are configured to be delivered to the supply conduit sequentially or simultaneously.

10. (*Currently Amended*) A skin treatment system comprising:

a manifold system in communication with at least two containers that are configured to be secured to the manifold system, wherein each of the at least two containers is configured to contain a treatment material;

a handpiece assembly configured to contact a skin surface of a subject, wherein a supply conduit places the manifold system in fluid communication with the handpiece assembly;

a vacuum source; and

a waste conduit in fluid communication with the handpiece assembly and the vacuum source to move waste away from the handpiece assembly;

wherein the system is configured to deliver at least one treatment material from at least one of the at least two containers to the handpiece assembly via the supply conduit.

11. (*Previously Presented*) The system of Claim 10, wherein the manifold system is positioned in a console.

12. (*Previously Presented*) The system of Claim 10, further comprising a computing device configured to control at least one function of the system.

13. (*Previously Presented*) The system of Claim 10, further comprising a user input device to facilitate control a flow of treatment materials from at least one of the at least two containers to the handpiece assembly.

14. (*Previously Presented*) The system of Claim 13, wherein the user input device comprises a touch screen.

15. (*Currently Amended*) The system of Claim 10, wherein treatment materials from the first container and the at least second container are configured to be delivered to the supply conduit sequentially or simultaneously.

16. (*Currently Amended*) A skin treatment system comprising:

a manifold system in communication with at least two containers, wherein each of the at least two containers is configured to contain a treatment material;

a handpiece assembly configured to contact a skin surface of a subject;

a supply conduit placing the manifold system, and thus the at least two containers, in fluid communication with the handpiece assembly; and

a waste conduit in fluid communication with the handpiece assembly and a vacuum source to move waste away from the handpiece assembly; and

wherein the system is configured to deliver treatment materials from at least one of the at least two containers to the handpiece assembly via the supply conduit.

17. (*Previously Presented*) The system of Claim 16, wherein the manifold system is positioned in a console.

18. (*Previously Presented*) The system of Claim 16, further comprising a computing device configured to control at least one function of the system.

19. (*Previously Presented*) The system of Claim 16, further comprising a user input device to facilitate control a flow of treatment materials from at least one of the at least two containers to the handpiece assembly.

20. (*Previously Presented*) The system of Claim 19, wherein the user input device comprises a touch screen.

21. (*Currently Amended*) The system of Claim 16, wherein treatment materials from the first container and the at least second container are configured to be delivered to the supply conduit sequentially or simultaneously.

SUMMARY OF INTERVIEW

Applicant thanks Examiner Knauss for his time and courtesy extended during the Interview of April 20, 2021 (the "Interview").

Attendees, Date and Type of Interview

The Interview was conducted telephonically on April 20, 2021 and was attended by Examiner Christian D. Knauss and Attorney for Applicant, Theodore Papagiannis.

Exhibits and/or Demonstrations

None.

Identification of Claims Discussed

The pending claims.

Identification of References Discussed

The art of record, generally.

Proposed Amendments, Principal Arguments and Results of Interview

The majority of the Interview was dedicated to addressing the mailing of the Office Action in light of the Preliminary Amendment mailed on March 18, 2021, prior to the mailing of and without knowledge of the Office Action. Examiner Knauss pointed to MPEP §714.01(e) to reinforce his position that the claim amendments presented in the March 18, 2021 filing by the Applicant should not be considered. Without acquiescing to the merits regarding to the timing of the Office Action and the Preliminary Amendment dated March 18, 2021, in an attempt to advance prosecution on the merits, Applicant is submitting this response.

REMARKS

The foregoing amendments and the following remarks are responsive to the Office Action. Claims 2 to 21 are currently pending in this application. However, as noted in the foregoing Summary of Interview section, only prior pending Claim 1 was examined in the Office Action. In any case, in order to advance prosecution of the present application and pursuant to the Interview, clarifying amendments are presented herein to independent Claims 2, 10 and 16, as well as to several dependent claims. Applicant submits that no new matter is introduced by the foregoing clarifying claim amendments. Applicant reserves the right to pursue claims similar to the original claims or previously-pending versions of the claims in a continuing application. Accordingly, Claims 2 to 21 are presented for further consideration.

Claim Rejections

Claim 1 stands rejected under pre-AIA 35 U.S.C. §103(a) as being unpatentable over U.S. Publ. No. 2001/0049511 to Coleman et al. ("Coleman") in view of U.S. Pat. No. 3,930,598 to Slagle ("Slagle"). Applicant respectfully disagrees with and traverses these rejections. However, pursuant to the Interview and in light of the clarifying amendments to the claims presented herein, Claim 1 was previously canceled without prejudice. This cancelation occurred before the mailing of the Office Action. Regardless of the timing of any correspondence to and from the USPTO regarding the present application, Applicant submits that the obviousness rejections are now moot and should be withdrawn.

For example, with respect to independent Claim 2, Applicant submits that the art of record, including Coleman and Slagle, either alone or in combination, fails to teach or suggest, *inter alia*, a skin treatment system comprising a manifold system in communication with a first container and at least a second container, wherein each of the first container and the at least second container is configured to contain a treatment material, the manifold system being positioned in or on a console, a supply conduit placing the manifold system in fluid communication with a handpiece assembly, wherein the handpiece assembly comprises a working end having a skin contact surface, a vacuum source, a waste conduit in fluid communication with the handpiece assembly and the vacuum source to move waste away from the working end of the handpiece assembly during a skin treatment procedure, and at least one

control to permit control of a flow of treatment material from the first container and the at least second container through the supply conduit to the handpiece assembly, wherein the vacuum source is configured to create a suction force within the waste conduit and along the working end of the handpiece assembly to help remove waste from the handpiece assembly via the waste conduit.

For at least the above reasons, Applicant submits that the pending claims are novel, non-obvious and otherwise patentable over the cited references, either alone or in combination with any other reference(s). In addition, the dependent claims are distinguished over the cited references in view of additional language included therein. Accordingly, Applicant requests that the obviousness rejections presented in the Office Action be withdrawn.

No Disclaimers or Disavowals

Although the present communication may include alterations to the application or claims, or characterizations of claim scope or referenced art, Applicant is not conceding in this application that previously pending claims are not patentable over the cited references. Rather, any alterations or characterizations are being made to facilitate expeditious prosecution of this application. Applicant reserves the right to pursue at a later date any previously pending or other broader or narrower claims that capture any subject matter supported by the present disclosure, including subject matter found to be specifically disclaimed herein or by any prior prosecution. Accordingly, reviewers of this or any parent, child or related prosecution history shall not reasonably infer that Applicant has made any disclaimers or disavowals of any subject matter supported by the present application.

Co-Pending Applications of Assignee

Applicant wishes to draw the Examiner's attention to the following co-pending applications of the present application's assignee.

Attorney Docket No.	Country	App. No. (Pat. No., if appl.)	Filing Date	Title
EDGE.004A	US	09/648,025 (Pat. No. 6,641,591)	Aug. 25, 2000	INSTRUMENTS AND TECHNIQUES FOR CONTROLLED REMOVAL OF EPIDERMAL LAYERS
EDGE.004C1	US	10/699,747 (Pat. No. 7,789,886)	Nov. 3, 2003	INSTRUMENTS AND TECHNIQUES FOR CONTROLLED REMOVAL OF EPIDERMAL LAYERS

Attorney Docket No.	Country	App. No. (Pat. No., if appl.)	Filing Date	Title
EDGE.004C1DV1	US	11/739,615 (Pat. No. 8,337,513)	Apr. 24, 2007	INSTRUMENTS AND TECHNIQUES FOR CONTROLLED REMOVAL OF EPIDERMAL LAYERS
EDGE.004C2	US	11/417,709 (Pat. No. 8,066,716)	May 3, 2006	INSTRUMENTS AND TECHNIQUES FOR CONTROLLED REMOVAL OF EPIDERMAL LAYERS
EDGE.004C3	US	11/417,396 (Pat. No. 7,678,120)	May 3, 2006	INSTRUMENTS AND TECHNIQUES FOR CONTROLLED REMOVAL OF EPIDERMAL LAYERS
EDGE.004C4	US	13/620,164	Sep. 14, 2012	INSTRUMENTS AND TECHNIQUES FOR CONTROLLED REMOVAL OF EPIDERMAL LAYERS
EDGE.004C5	US	14/702,509 (Pat. No. 9,775,646)	May 1, 2015	DEVICES AND SYSTEMS FOR TREATING THE SKIN USING VACUUM
EDGE.004C6	US	14/702,486 (Pat. No. 9,468,464)	May 1, 2015	METHODS FOR TREATING THE SKIN USING VACUUM
EDGE.004C7	US	15/953,337	Apr. 13, 2018	INSTRUMENTS AND TECHNIQUES FOR CONTROLLED REMOVAL OF EPIDERMAL LAYERS
EDGE.005A	US	11/392,348 (Pat. No. 8,048,089)	Mar. 29, 2006	APPARATUS AND METHODS FOR TREATING THE SKIN
EDGE.005C1	US	13/267,554 (Pat. No. 9,474,886)	Oct. 6, 2011	REMOVABLE TIPS FOR SKIN TREATMENT SYSTEMS
EDGE.005C2	US	14/698,673 (Pat No. 9,550,052)	Apr. 28, 2015	CONSOLE SYSTEM FOR THE TREATMENT OF SKIN
EDGE.005C3	US	14/698,713 (Pat. No. 9,662,482)	Apr. 28, 2015	METHODS AND SYSTEMS FOR EXTRACTION OF MATERIALS FROM SKIN
EDGE.005C4	US	14/700,789 (Pat. No. 9,814,868)	Apr. 30, 2015	TIP WITH EMBEDDED MATERIALS FOR SKIN TREATMENT
EDGE.005C5	US	15/660,750 (Pat. No. 10/357,641)	Jul. 26, 2017	TIPS FOR SKIN TREATMENT DEVICE
EDGE.005C6	US	15/660,777 (Pat. No. 10/357,642)	Jul. 26, 2017	REMOVABLE TIPS FOR USE WITH SKIN TREATMENT SYSTEMS
EDGE.005C7	**US**	**16/517,268** ***(present application)***	**Jul. 19, 2019**	**DEVICES AND METHODS FOR TREATING SKIN**
EDGE.005C8	US	17/165,820	Feb. 2, 2021	DEVICES AND METHODS FOR TREATING SKIN
EDGE.005C9	US	17/165,807	Feb. 2, 2021	DEVICES AND METHODS FOR TREATING SKIN
EDGE.005DP1	US	29/679299	Feb. 4, 2019	SKIN TREATMENT SYSTEM
EDGE.005DP2	US	29/679306	Feb. 4, 2019	HANDPIECE ASSEMBLY TIP
EDGE.005DP3	US	29/679302	Feb. 4, 2019	HANDPIECE ASSEMBLY TIP
EDGE.006A	US	09/294,254 (Pat. No. 6,162,232)	Apr. 19, 1999	INSTRUMENTS AND TECHNIQUES FOR HIGH-VELOCITY FLUID ABRASION OF EPIDERMAL LAYERS WITH SKIN COOLING
EDGE.007A	US	09/475480 (Pat. No. 6,299,620)	Dec. 30, 1999	INSTRUMENTS AND TECHNIQUES FOR INDUCING NEOCOLLAGENESIS IN SKIN TREATMENTS
EDGE.008A	US	09/475479 (Pat. No. 6,387,103)	Dec. 30, 1999	INSTRUMENTS AND TECHNIQUES FOR INDUCING NEOCOLLAGENESIS IN SKIN TREATMENTS
EDGE.022A	US	11/370,200	Mar. 7, 2006	MICRODERMABRASION METHOD AND APPARATUS
EDGE.044A	US	12/362,353 (Pat. No. 9,056,193)	Jan. 29, 2009	APPARATUS AND METHOD FOR TREATING THE SKIN
EDGE.044C1	US	14/734,995	Jun. 9, 2015	DEVICES AND SYSTEMS FOR TREATING SKIN SURFACES
EDGE.044CP1	US	12/832,663 (Pat. No. 8,814,836)	Jul 8, 2010	DEVICES, SYSTEMS AND METHODS FOR TREATING THE SKIN USING TIME-RELEASE SUBSTANCES
EDGE.044P1C1	US	14/455,762 (Pat. No. 9,642,997)	Aug. 8, 2014	DEVICES FOR TREATING SKIN USING TREATMENT MATERIALS LOCATED ALONG A TIP

Attorney Docket No.	Country	App. No. (Pat. No., if appl.)	Filing Date	Title
EDGE.044P1C2	US	15/588,102 (Pat. No. 10,556,097)	May 5, 2017	DEVICES FOR TREATING SKIN USING TREATMENT MATERIALS LOCATED ALONG A TIP
EDGE.044P1C3	US	16/784,850	Feb. 7, 2020	DEVICES AND METHODS FOR TREATING SKIN
EDGE.047A	US	12/346,582 (Pat. No. 8,343,116)	Dec. 30, 2008	APPARATUS AND METHOD FOR TREATING THE SKIN
EDGE.047C1	US	13/620,376 (Pat. No. 9,486,615)	Sep. 14, 2012	MICRODERMABRASION APPARATUS AND METHOD
EDGE.047C2	US	15/344,357 (Pat. No. 10,556,096)	Nov. 4, 2016	DEVICES AND METHODS FOR SKIN TREATMENT
EDGE.047C3	US	16/784,044	Feb. 6, 2020	DEVICES AND METHODS FOR SKIN TREATMENT
EDGE.050A	US	09/540,945 (Pat. No. 6,592,595)	Mar. 31, 2000	MICRODERMABRASION AND SUCTION MASSAGE APPARATUS AND METHOD
EDGE.050C1	US	09/698,409 (Pat. No. 6,527,783)	Oct. 27, 2000	MICRODERMABRASION AND SUCTION MASSAGE APPARATUS AND METHOD
EDGE.050DV1	US	10/177,173 (Pat. No. 6,673,082)	Jun. 20, 2002	MICRODERMABRASION HANDPIECE WITH SUPPLY AND RETURN LUMENS
EDGE.051A	US	10/315,478 (Pat. No. 6,942,649)	Dec. 10, 2002	MICRODERMABRASION FLUID APPLICATION SYSTEM AND METHOD
EDGE.052A	US	09/699,220 (Pat. No. 6,629,983)	Oct. 27, 2000	APPARATUS AND METHOD FOR SKIN/SURFACE ABRASION
EDGE.065A	US	14/211,089 (Pat. No. 10,238,812)	Mar. 14, 2014	SKIN TREATMENT SYSTEMS AND METHODS USING NEEDLES
EDGE.065C1	US	16/363,310	Mar. 25, 2019	SKIN TREATMENT SYSTEMS AND METHODS USING NEEDLES
EDGE.077A	US	14/211,290 (Pat. No. 9,566,088)	Mar. 14, 2014	DEVICES, SYSTEMS AND METHODS FOR TREATING THE SKIN
EDGE.077C1	US	15/430,209 (Pat. No. 10,251,675)	Feb. 10, 2017	DEVICES, SYSTEMS AND METHODS FOR TREATING THE SKIN
EDGE.077C2	US	16/376,956	Apr. 5, 2019	DEVICES, SYSTEMS AND METHODS FOR TREATING THE SKIN
EDGE.077NP	US	14/774,641 (Pat. No. 10,172,644)	Sep. 10, 2015	DEVICES, SYSTEMS AND METHODS FOR TREATING THE SKIN
EDGE.077NPC1	US	16/241,572	Jan. 7, 2019	DEVICES, SYSTEMS AND METHODS FOR TREATING THE SKIN
EDGE.077NPC2	US	17/163,128	Jan. 29, 2021	DEVICES, SYSTEMS AND METHODS FOR TREATING THE SKIN
EDGE.077NPC3	US	17/163,199	Jan. 29, 2021	DEVICES, SYSTEMS AND METHODS FOR TREATING THE SKIN
EDGE.077NPC4	US	17/163,237	Jan. 29, 2021	DEVICES, SYSTEMS AND METHODS FOR TREATING THE SKIN
EDGE.077NPC5	US	17/163,240	Jan. 29, 2021	DEVICES, SYSTEMS AND METHODS FOR TREATING THE SKIN
EDGE.090A	US	14/998,375 (Pat. No. 9,498,610)	Dec. 23, 2015	DEVICES AND METHODS FOR TREATING THE SKIN USING A ROLLERBALL OR A WICKING MEMBER
EDGE.090C1	US	15/354,754 (Pat. No. 10,035,007)	Nov. 17, 2016	DEVICES AND METHODS FOR TREATING THE SKIN
EDGE.090C2	US	16/040,397	Jul. 19, 2018	DEVICES AND METHODS FOR TREATING THE SKIN
EDGE.090C3	US	17/164,580	Feb. 1, 2021	DEVICES AND METHODS FOR TREATING THE SKIN
EDGE.090P1	US	15/498,416 (Pat. No. 10,179,229)	Apr. 26, 2017	DEVICES AND METHODS FOR TREATING THE SKIN USING A POROUS MEMBER
EDGE.090P1C1	US	16/246,306	Jan. 11, 2019	DEVICES AND METHODS FOR TREATING THE SKIN USING A POROUS MEMBER

Attorney Docket No.	Country	App. No. (Pat. No., if appl.)	Filing Date	Title
EDGE.091A	US	15/204,939	Jul. 7, 2016	DEVICES, SYSTEMS AND METHODS FOR PROMOTING HAIR GROWTH

Copies of these patents and patent applications, including any pending claims, office actions, allowances and/or other communications, are available through PALM and/or PAIR. However, if the Examiner so requests, Applicant will be happy to provide the Examiner with copies of any applications, pending claims, office actions, allowances, communications or any other documents, at any time.

Further, Applicant notes for the record that the claims of the present application are different and may be broader in scope than the claims in any related patent or application. To the extent that any statements made in a related case (such as amendments or characterizations regarding the scope of a claim or prior art) could be construed as a disclaimer of any subject matter supported by the present disclosure, Applicant rescinds and retracts such disclaimer. Accordingly, any listed or referenced prior art may need to be re-visited. Further, any objections or rejections made by the Examiner in the issued and allowed cases identified above may need to be re-visited.

CONCLUSION

In view of the foregoing amendments and remarks, Applicant respectfully submits that the claims are now in condition for allowance. Accordingly, Applicant respectfully requests reconsideration of the claims in light of the foregoing amendments and remarks.

Applicant has made a good faith effort to place the application in condition for immediate allowance. Nevertheless, if any issues remain or otherwise require clarification, the Examiner is respectfully requested to contact Applicant's attorney at the below-listed telephone number to promptly resolve such issues.

Please charge any additional fees, including any fees for additional extension of time, or credit overpayment to Deposit Account No. 11-1410.

Respectfully submitted,

KNOBBE, MARTENS, OLSON & BEAR, LLP

Dated: August 20, 2021

By:/Theodore G. Papagiannis/
Theodore G. Papagiannis
Registration No. 61,546
Attorney of Record
Customer No. 20995
(949) 760-0404

34665497

Electronic Patent Application Fee Transmittal	
Application Number:	16517268
Filing Date:	19-Jul-2019
Title of Invention:	DEVICES AND METHODS FOR TREATING SKIN
First Named Inventor/Applicant Name:	Roger Ignon
Filer:	Theodore G. Papagiannis/Caroline Bialeck
Attorney Docket Number:	EDGE.005C7
Filed as Small Entity	
Filing Fees for Utility under 35 USC 111(a)	

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Basic Filing:				
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Extension - 2 months with $0 paid	2252	1	320	320
Miscellaneous:				
		Total in USD ($)		**320**

Electronic Acknowledgement Receipt	
EFS ID:	43567532
Application Number:	16517268
International Application Number:	
Confirmation Number:	9432
Title of Invention:	DEVICES AND METHODS FOR TREATING SKIN
First Named Inventor/Applicant Name:	Roger Ignon
Customer Number:	20995
Filer:	Theodore G. Papagiannis/Aimee Kazan
Filer Authorized By:	Theodore G. Papagiannis
Attorney Docket Number:	EDGE.005C7
Receipt Date:	20-AUG-2021
Filing Date:	19-JUL-2019
Time Stamp:	19:19:38
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	CARD
Payment was successfully received in RAM	$320
RAM confirmation Number	E20218JJ20294722
Deposit Account	111410
Authorized User	Aimee Kazan
The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows: 37 CFR 1.16 (National application filing, search, and examination fees) 37 CFR 1.17 (Patent application and reexamination processing fees)	

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1		EDGE005C7_OAR.pdf	73331 b5a3dc45750145cc5b06146c703f3a27af23f7b1	yes	11

	Multipart Description/PDF files in .zip description		
	Document Description	**Start**	**End**
	Amendment/Req. Reconsideration-After Non-Final Reject	1	1
	Claims	2	4
	Applicant summary of interview with examiner	5	5
	Applicant Arguments/Remarks Made in an Amendment	6	11

Warnings:					
Information:					
2	Fee Worksheet (SB06)	fee-info.pdf	38462 3abe3339f2a48214f40e30d3b119588855b3f365	no	2
Warnings:					
Information:					
		Total Files Size (in bytes):	111793		

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

PTO/SB/06 (09-11)
Approved for use through 1/31/2014. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875	Application or Docket Number 16/517,268	Filing Date 07/19/2019	☐ To be Mailed

ENTITY: ☐ LARGE ☑ SMALL ☐ MICRO

APPLICATION AS FILED - PART I

FOR	(Column 1) NUMBER FILED	(Column 2) NUMBER EXTRA		RATE ($)	FEE ($)
☐ BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A		N/A	
☐ SEARCH FEE (37 CFR 1.16(k), (i), or (m))	N/A	N/A		N/A	
☐ EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A		N/A	
TOTAL CLAIMS (37 CFR 1.16(i))	minus 20 =	*		x $50 =	
INDEPENDENT CLAIMS (37 CFR 1.16(h))	minus 3 =	*		x $230 =	
☐ APPLICATION SIZE FEE (37 CFR 1.16(s))	If the specification and drawings exceed 100 sheets of paper, the application size fee due is $310 ($155 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).				
☐ MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))					
* If the difference in column 1 is less than zero, enter "0" in column 2.				TOTAL	

APPLICATION AS AMENDED - PART II

		(Column 1)		(Column 2)	(Column 3)			
AMENDMENT	08/20/2021	CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA		RATE ($)	ADDITIONAL FEE ($)
	Total (37 CFR 1.16(i))	* 20	Minus	** 20	= 0		x $50 =	0
	Independent (37 CFR 1.16(h))	* 3	Minus	*** 3	= 0		x $240 =	0
	☐ Application Size Fee (37 CFR 1.16(s))							
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))							
							TOTAL ADD'L FEE	0

		(Column 1)		(Column 2)	(Column 3)			
AMENDMENT		CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA		RATE ($)	ADDITIONAL FEE ($)
	Total (37 CFR 1.16(i))	*	Minus	**	=		x $0 =	
	Independent (37 CFR 1.16(h))	*	Minus	***	=		x $0 =	
	☐ Application Size Fee (37 CFR 1.16(s))							
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))							
							TOTAL ADD'L FEE	

* If the entry in column 1 is less than the entry in column 2, write "0" in column 3.	LIE
** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20".	/LASHAWN R MORGAN/
*** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3".	
The "Highest Number Previously Paid For" (Total or Independent) is the highest number found in the appropriate box in column 1.	

This collection of information is required by 37 CFR 1.16. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

PTO/SB/08 Equivalent

INFORMATION DISCLOSURE STATEMENT BY APPLICANT	Application No.	16/517,268
	Filing Date	July 19, 2019
	First Named Inventor	Roger Ignon
	Art Unit	3771
(Multiple sheets used when necessary)	Examiner	Knauss, Christian D.
SHEET 1 OF 6	Attorney Docket No.	EDGE.005C7

U.S. PATENT DOCUMENTS					
Examiner Initials	Cite No.	Document Number *Number - Kind Code (if known)* Example: 1,234,567 B1	Publication Date MM-DD-YYYY	Name	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear
	1	3,560,100	02-02-1971	Spatz	
	2	4,342,522	08-03-1982	Mackles	
	3	4,500,222	02-19-1985	Clading-Boel	
	4	6,508,813	01-21-2003	Altshuler	
	5	6,537,242	03-25-2003	Palmer	
	6	6,626,445	09-30-2003	Murphy, et al.	
	7	6,629,927	10-07-2003	Mesaros, et al.	
	8	6,938,805	09-06-2005	Brincat	
	9	7,051,907	05-30-2006	Brincat	
	10	7,166,086	01-23-2007	Haider et al.	
	11	7,316,671	01-08-2008	Lastovich et al.	
	12	7,422,567	09-09-2008	Lastovich et al.	
	13	7,857,806	12-28-2010	Karpowicz et al.	
	14	8,231,292	07-31-2012	Rabe et al.	
	15	8,475,507	07-02-2013	Dewey et al.	
	16	8,573,874	11-05-2013	Neuner	
	17	8,579,916	11-12-2013	Cheney	
	18	8,721,662	05-13-2014	Karasiuk	
	19	8,858,570	10-14-2014	Chang	
	20	8,939,669	01-27-2015	Le et al.	
	21	8,945,104	02-03-2015	Boone, III et al.	
	22	9,050,133	06-09-2015	Boone, III et al.	
	23	9,072,533	07-07-2015	Liu et al.	
	24	9,517,085	12-13-2016	Karasiuk	
	25	9,700,684	07-11-2017	Vlodaver et al.	
	26	9,731,053	08-15-2017	Alai	
	27	9,775,645	10-03-2017	Boone, III	
	28	9,833,261	12-05-2017	Boone, III et al.	
	29	9,861,442	01-09-2018	Tankovich et al.	

Examiner Signature	Date Considered
***Examiner:** Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

T[1] - Place a check mark in this area when an English language Translation is attached.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT	Application No.	16/517,268
	Filing Date	July 19, 2019
	First Named Inventor	Roger Ignon
	Art Unit	3771
(Multiple sheets used when necessary)	Examiner	Knauss, Christian D.
SHEET 2 OF 6	Attorney Docket No.	EDGE.005C7

U.S. PATENT DOCUMENTS					
Examiner Initials	Cite No.	Document Number *Number - Kind Code (if known)* Example: 1,234,567 B1	Publication Date MM-DD-YYYY	Name	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear
	30	9,918,727	03-20-2018	Boone, III et al.	
	31	9,949,552	04-24-2018	Rabe et al.	
	32	9,950,147	04-24-2018	Mehta	
	33	9,955,769	05-01-2018	Rabe et al.	
	34	10,076,646	09-18-2018	Casasanta, III et al.	
	35	10,130,390	11-20-2018	Hart et al.	
	36	10,188,193	01-29-2019	Rabe et al.	
	37	10,206,743	02-19-2019	Tankovich et al.	
	38	10,220,122	03-05-2019	Clark, III et al.	
	39	10,314,378	06-11-2019	Rabe et al.	
	40	10,334,933	08-06-2019	Rosario et al.	
	41	10,369,073	08-06-2019	Rosario et al.	
	42	10,456,321	10-29-2019	Shadduck	
	43	10,456,567	10-29-2019	Streeter	
	44	10,485,983	11-26-2019	Boone, III et al.	
	45	10,524,835	01-07-2020	Shadduck et al.	
	46	10,667,985	06-02-2020	Decaux et al.	
	47	10,737,080	08-11-2020	Patterson	
	48	10,758,261	09-01-2020	Richardson	
	49	10,918,190	02-16-2021	Laudati	
	50	10,946,191	03-16-2021	Cazares Delgadillo	
	51	10,993,743	05-04-2021	Ignon, et al.	
	52	11,020,577	06-01-2021	Ignon, et al.	
	53	D486,915	02-17-2004	Warschewske, et al.	
	54	D496,101	09-14-2004	Davison	
	55	D522,360	06-06-2006	Caserta et al.	
	56	D553,005	10-16-2007	Py et al.	
	57	D584,151	01-06-2009	Murphy	
	58	D664,254	07-24-2012	Yokoyama, et al.	

Examiner Signature	Date Considered
***Examiner:** Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

T[1] - Place a check mark in this area when an English language Translation is attached.

PTO/SB/08 Equivalent

INFORMATION DISCLOSURE STATEMENT BY APPLICANT	Application No.	16/517,268
	Filing Date	July 19, 2019
	First Named Inventor	Roger Ignon
	Art Unit	3771
(Multiple sheets used when necessary)	Examiner	Knauss, Christian D.
SHEET 3 OF 6	Attorney Docket No.	EDGE.005C7

U.S. PATENT DOCUMENTS					
Examiner Initials	Cite No.	Document Number *Number - Kind Code (if known)* Example: 1,234,567 B1	Publication Date MM-DD-YYYY	Name	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear
	59	D678,783	03-26-2013	Wilcox et al.	
	60	D709,617	07-22-2014	Iliesco de Grimaldi et al.	
	61	D722,172	02-03-2015	Amemiya, et al.	
	62	D743,558	11-17-2015	Kim, et al.	
	63	D787,054	05-16-2017	Rini et al.	
	64	D811,381	02-27-2018	Morohoshi, et al.	
	65	D822,845	07-10-2018	Shimobayashi, et al.	
	66	D825,763	08-14-2018	Lim, et al.	
	67	D836,781	12-25-2018	Meurer, et al.	
	68	D851,759	06-18-2019	Jones et al.	
	69	D852,962	07-02-2019	Chang	
	70	D861,913	10-01-2019	Stamm et al.	
	71	D868,981	12-03-2019	Salamon et al.	
	72	D867,587	11-19-2019	Holtz	
	73	D893,024	08-11-2020	Whiteside	
	74	2004/0138680	07-15-2004	Twitchell, et al.	
	75	2007/0139630	06-21-2007	Kleman, et al.	
	76	2011/0295273	12-01-2011	Waldron, et al.	
	77	2013/0144207	06-06-2013	Gonon	
	78	2014/0079686	03-20-2014	Barman et al.	
	79	2014/0234004	08-21-2014	Thorpe et al.	
	80	2014/0343481	11-20-2014	Ignon	
	81	2014/0378887	12-25-2014	Chang et al.	
	82	2016/0018100	01-21-2016	Batt et al.	
	83	2016/0038183	02-11-2016	Ignon, et al.	
	84	2016/0235257	08-18-2016	Daffer	
	85	2016/0250415	09-01-2016	Yagi et al.	
	86	2017/0043150	02-16-2017	Kim	
	87	2018/0140329	05-24-2018	Beijens et al.	

Examiner Signature	Date Considered
***Examiner:** Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

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PTO/SB/08 Equivalent

INFORMATION DISCLOSURE STATEMENT BY APPLICANT	Application No.	16/517,268
	Filing Date	July 19, 2019
	First Named Inventor	Roger Ignon
	Art Unit	3771
(Multiple sheets used when necessary)	Examiner	Knauss, Christian D.
SHEET 4 OF 6	Attorney Docket No.	EDGE.005C7

U.S. PATENT DOCUMENTS					
Examiner Initials	Cite No.	Document Number *Number - Kind Code (if known)* Example: 1,234,567 B1	Publication Date MM-DD-YYYY	Name	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear
	88	2018/0185675	07-05-2018	Kern et al.	
	89	2019/0070069	03-07-2019	Gertner et al.	
	90	2019/0151637	05-23-2019	Groop et al.	
	91	2020/0009007	01-09-2020	Shadduck	
	92	2020/0179220	06-11-2020	Jablow	
	93	2020/0289161	09-17-2020	Scooros	
	94	2020/0316270	10-08-2020	Dijkstra et al.	
	95	2020/0338586	10-29-2020	Park	
	96	2020/0390468	12-17-2020	Alexander	
	97	2021/0085367	03-25-2021	Shadduck et al.	
	98	2021/0145480	05-20-2021	Ignon, et al.	
	99	2021/0145481	05-20-2021	Ignon, et al.	
	100	2021/0154453	05-27-2021	Ignon, et al.	
	101	2021/0154454	05-27-2021	Ignon, et al.	
	102	2021/0154455	05-27-2021	Ignon, et al.	
	103	2021/0177463	06-17-2021	Ignon, et al.	

FOREIGN PATENT DOCUMENTS						
Examiner Initials	Cite No.	Foreign Patent Document *Country Code-Number-Kind Code* Example: JP 1234567 A1	Publication Date MM-DD-YYYY	Name	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear	**T[1]**
	104	CN 107920948	04-17-2018	Edge Systems LLC		
	105	EP 1238643	04-07-2000	S.O.R Internacional		
	106	EP 1 453 558	09-08-2004	Envy Medical, Inc.		
	107	EP 2240099	02-21-2018	Edge Systems LLC.		
	108	EP 2451367	01-22-2020	Edge Systems LLC.		
	109	EP 2544563	09-16-2015	LRC Products Limited		
	110	EP 2618797	04-08-2020	Sharon Hilditch		
	111	EP 2967633	04-25-2018	Edge Systems LLC		

Examiner Signature	Date Considered
***Examiner:** Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

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PTO/SB/08 Equivalent

INFORMATION DISCLOSURE STATEMENT BY APPLICANT	Application No.	16/517,268
	Filing Date	July 19, 2019
	First Named Inventor	Roger Ignon
	Art Unit	3771
(Multiple sheets used when necessary)	Examiner	Knauss, Christian D.
SHEET 5 OF 6	Attorney Docket No.	EDGE.005C7

FOREIGN PATENT DOCUMENTS						
Examiner Initials	Cite No.	Foreign Patent Document *Country Code-Number-Kind Code* Example: JP 1234567 A1	Publication Date MM-DD-YYYY	Name	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear	T[1]
	112	EP 3 217 899	05-19-2016	CYTRELLIS BIOSYSTEMS INC		
	113	EP 3237055	08-12-2020	Edge Systems LLC		
	114	EP 3 302 319	04-11-2018	Koninklijke Philips N.V.		
	115	EP 3319573	05-16-2018	Edge Systems LLC		
	116	EP 3 340 908	07-04-2018	Koninklijke Philips N.V.		
	117	EP 3388006	03-04-2020	Edge Systems LLC		
	118	EP 3437575	04-21-2021	Edge Systems LLC.		
	119	EP 3795204	03-24-2021	Edge Systems LLC.		
	120	JP (53-118927) S55-034863	08-29-1963			
	121	JP 5508285	03-28-2014	Edge Systems Corporation		
	122	JP 2010/042243	02-25-2010	LPG Finance Ind		
	123	JP 2012527967	11-12-2012	General Hospital Corp		
	124	JP 2018-527052	09-20-2018	Edge Systems LLC		
	125	KR 10-1836310	03-02-2018	Edge Systems LLC		
	126	KR 10-2018-0030607	03-23-2018	Edge Systems LLC		
	127	WO 00/79540	12-28-2000	DAUGHTON JAMES M; NONVOLATILE ELECTRONICS INC; POHM ARTHUR V		
	128	WO 2011/006009	01-13-2011	Edge Systems Corporation		
	129	WO 2011/110840	09-15-2011	LRC Products Limited		
	130	WO 2014/091035	06-19-2014	Decaux		
	131	WO 2021/018765	02-04-2021	L'Oreal		

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T[1]

Examiner Signature	Date Considered
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	First Named Inventor	Roger Ignon
	Art Unit	3771
(Multiple sheets used when necessary)	Examiner	Knauss, Christian D.
SHEET 6 OF 6	Attorney Docket No.	EDGE.005C7

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T[1]
	132	HYDRAFACIAL® TOWER - User guide. Edge Systems. Revised june 23, 2016. Page no. 16.	

53919467

Examiner Signature	Date Considered
***Examiner:** Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

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Electronic Patent Application Fee Transmittal

Application Number:	16517268
Filing Date:	19-Jul-2019
Title of Invention:	DEVICES AND METHODS FOR TREATING SKIN
First Named Inventor/Applicant Name:	Roger Ignon
Filer:	Kregg A. Koch/David Pacheco
Attorney Docket Number:	EDGE.005C7

Filed as Small Entity

Filing Fees for Utility under 35 USC 111(a)

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Basic Filing:				
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Miscellaneous:				
SUBMISSION- INFORMATION DISCLOSURE STMT	2806	1	130	130
		Total in USD ($)		**130**

Electronic Acknowledgement Receipt	
EFS ID:	43520627
Application Number:	16517268
International Application Number:	
Confirmation Number:	9432
Title of Invention:	DEVICES AND METHODS FOR TREATING SKIN
First Named Inventor/Applicant Name:	Roger Ignon
Customer Number:	20995
Filer:	Kregg A. Koch/David Pacheco
Filer Authorized By:	Kregg A. Koch
Attorney Docket Number:	EDGE.005C7
Receipt Date:	18-AUG-2021
Filing Date:	19-JUL-2019
Time Stamp:	13:55:07
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	CARD
Payment was successfully received in RAM	$130
RAM confirmation Number	E20218HD55423043
Deposit Account	111410
Authorized User	David Pacheco
The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows: 37 CFR 1.16 (National application filing, search, and examination fees) 37 CFR 1.17 (Patent application and reexamination processing fees)	

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Foreign Reference	CN107920948A.pdf	5817771 c94a75ada972fc0d21db476c48c7f7bac3634f3e	no	55
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2	Foreign Reference	EP1238643A1.pdf	487593 418fbab052c3093ea4e760ce4a0711a48a785b8a	no	7
Warnings:					
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3	Foreign Reference	EP1453558B1.pdf	162171 0cc08d49fc9f3d24da7d27bfae2ca68d7f915c25	no	15
Warnings:					
Information:					
4	Foreign Reference	EP2240099.pdf	2607617 da220557ab684459eba241455c9b28c78dddbe77	no	48
Warnings:					
Information:					
5	Foreign Reference	EP2451367A0.pdf	10299120 4ed04c9fdc25e4d08dd82051f6c3394dc9ef785a	no	165
Warnings:					
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6	Foreign Reference	EP2544563A0.pdf	1326806 437561eaf945b1ce05aaeb5408326a6604199f34	no	24
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7	Foreign Reference	EP2618797A0.pdf	2620379 6ca8086162989a172787972ae0797aad69db3648	no	38
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8	Foreign Reference	EP2967633A0.pdf	6748289 fcfea84c21e94a2d477752cfbb39c662ead25912	no	113
Warnings:					
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9	Foreign Reference	EP3217899A0.pdf	5627751 789a3ff6bf8ab6030f51badfdc7aa7d1b4fb3968	no	76
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10	Foreign Reference	EP3237055A0.pdf	4611066 89b7edc37cdc92703c6fba818feb2aec839d620a	no	75
Warnings:					
Information:					
11	Foreign Reference	EP3302319A0.pdf	2707767 11a7cc79ec2dc6becc90fd901b4eb4aa84bb941c	no	35
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12	Foreign Reference	EP3319573A0.pdf	6253639 ea777cbcfc3bf79c3c5da4ab562d6fdd2f2d8bd9	no	85
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13	Foreign Reference	EP3340908A0.pdf	3080919 ab09c4a9fb108216072f118a7341de838b7ec87f	no	41
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14	Foreign Reference	EP3388006A1.pdf	3221951 6843a1bbbbb3046e409474e449bbd71f86aa9d7d	no	33
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15	Foreign Reference	EP3437575A1.pdf	5093339 061431ee2e497c75d1e59df84027b2b9ab92c8ab	no	71
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16	Foreign Reference	EP3795204A1.pdf	3599856 76dc8709a927959f690526a7678338462fd63905	no	46
Warnings:					
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17	Foreign Reference	JP53_118927_S55_034863.pdf	91560 cafeab6f4d3b1da42b295af342981cd146a13c85	no	6
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18	Foreign Reference	JP5508285B2.pdf	1933566 5e31f29028d1bd4b6ac7b037f2fad9bd26c5b3f3	no	28
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19	Foreign Reference	JP2010042243A.pdf	1425212 3066a17303b85c8ee7b6a7fdca4955e0d31953ca	no	36
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20	Foreign Reference	JP2012527967A_wAbs.pdf	1594048 dcaad6d24c1b6eb6392ee72800c4aa11affb999c	no	25
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21	Foreign Reference	JP2018527052A.pdf	3275339 9dae5ba3a9cf6c91d41ad50a4df38c520e9b1b88	no	51
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22	Foreign Reference	KR101836310B1.pdf	2209107 7d011b17e99906880ea492891e6a745e97a0f749	no	31
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23	Foreign Reference	KR20180030607A.pdf	4677346 bdaed55ef2346e63f52fe7b8767db50bfd5304dd	no	49
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Information:					
24	Foreign Reference	WO0079540A1.pdf	2922323 25d7c0982673035a91fe49361fe53f2b9bedbbdd	no	41
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25	Foreign Reference	WO2011006009A1.pdf	10272910 7254a7312f8437586d48b828c82c60335a46664b	no	164
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26	Foreign Reference	WO2011110840A1.pdf	1301291 5009de3bb104372569826 3c65a812630f0a920af	no	23
Warnings:					
Information:					
27	Foreign Reference	WO2014091035A1.pdf	5253098 ed221e1ba145e50214af1e10679b7961aff4831a	no	87
Warnings:					
Information:					

28	Foreign Reference	WO2021018765A1.pdf	1100344 4d3aa92fb31e9c6672dd9950e3097e19a4ba4a71	no	19
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29	Non Patent Literature	HydrafacialTower_UserGuide.pdf	163876 165e3fc9536490744824 7163c2a03cc5a93544e8	no	1
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Information:					
30		IDS.pdf	302604 8b6997e94e83188c37c9d77b087e607551b8c298	yes	11
	Multipart Description/PDF files in .zip description				
	Document Description		**Start**	**End**	
	Transmittal Letter		1	5	
	Information Disclosure Statement (IDS) Form (SB08)		6	11	
Warnings:					
Information:					
31	Fee Worksheet (SB06)	fee-info.pdf	37994 77c59490525e5266a2fd76d2b700a6602ce7cc92	no	2
Warnings:					
Information:					
		Total Files Size (in bytes):	100826652		

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New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

INFORMATION DISCLOSURE STATEMENT

Inventor	:	Ignon et al.
Appl. No.	:	16/517,268
Filed	:	July 19, 2019
For	:	DEVICES AND METHODS FOR TREATING SKIN
Examiner	:	Christian D. Knauss
Art Unit	:	3771
Conf. No.	:	9432

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

References and Listing

Pursuant to 37 CFR 1.56, an Information Disclosure Statement listing references is provided herewith. Copies of any listed foreign and non-patent literature references are being submitted. Any foreign references may also include English abstract(s) and/or machine translation(s), but no representation is made as to their accuracy. Identification herein is not an admission that any of the references are prior art to the above captioned application.

Applicant respectfully requests the Examiner to inform the undersigned representative if copies of any references or if any additional information is needed for a complete review of the references listed on the attached PTO/SB/08 form.

No Disclaimers

To the extent that anything in the Information Disclosure Statement or the listed references could be construed as a disclaimer of any subject matter supported by the present application, Applicant hereby rescinds and retracts such disclaimer.

Co-Pending Applications and Issued Patents of Assignee

Applicant wishes to draw the Examiner's attention to the following co-pending applications and issued patents of the present application's assignee.

Attorney Docket No.	Country	App. No. (Pat. No., if appl.)	Filing Date	Title
EDGE.004A	US	09/648,025 (Pat. No. 6,641,591)	Aug. 25, 2000	INSTRUMENTS AND TECHNIQUES FOR CONTROLLED REMOVAL OF EPIDERMAL LAYERS

Attorney Docket No.	Country	App. No. (Pat. No., if appl.)	Filing Date	Title
EDGE.004C1	US	10/699,747 (Pat. No. 7,789,886)	Nov. 3, 2003	INSTRUMENTS AND TECHNIQUES FOR CONTROLLED REMOVAL OF EPIDERMAL LAYERS
EDGE.004C1DV1	US	11/739,615 (Pat. No. 8,337,513)	Apr. 24, 2007	INSTRUMENTS AND TECHNIQUES FOR CONTROLLED REMOVAL OF EPIDERMAL LAYERS
EDGE.004C2	US	11/417,709 (Pat. No. 8,066,716)	May 3, 2006	INSTRUMENTS AND TECHNIQUES FOR CONTROLLED REMOVAL OF EPIDERMAL LAYERS
EDGE.004C3	US	11/417,396 (Pat. No. 7,678,120)	May 3, 2006	INSTRUMENTS AND TECHNIQUES FOR CONTROLLED REMOVAL OF EPIDERMAL LAYERS
EDGE.004C4	US	13/620,164	Sep. 14, 2012	INSTRUMENTS AND TECHNIQUES FOR CONTROLLED REMOVAL OF EPIDERMAL LAYERS
EDGE.004C5	US	14/702,509 (Pat. No. 9,775,646)	May 1, 2015	DEVICES AND SYSTEMS FOR TREATING THE SKIN USING VACUUM
EDGE.004C6	US	14/702,486 (Pat. No. 9,468,464)	May 1, 2015	METHODS FOR TREATING THE SKIN USING VACUUM
EDGE.004C7	US	15/953,337	Apr. 13, 2018	INSTRUMENTS AND TECHNIQUES FOR CONTROLLED REMOVAL OF EPIDERMAL LAYERS
EDGE.005A	US	11/392,348 (Pat. No. 8,048,089)	Mar. 29, 2006	APPARATUS AND METHODS FOR TREATING THE SKIN
EDGE.005C1	US	13/267,554 (Pat. No. 9,474,886)	Oct. 6, 2011	REMOVABLE TIPS FOR SKIN TREATMENT SYSTEMS
EDGE.005C2	US	14/698,673 (Pat No. 9,550,052)	Apr. 28, 2015	CONSOLE SYSTEM FOR THE TREATMENT OF SKIN
EDGE.005C3	US	14/698,713 (Pat. No. 9,662,482)	Apr. 28, 2015	METHODS AND SYSTEMS FOR EXTRACTION OF MATERIALS FROM SKIN
EDGE.005C4	US	14/700,789 (Pat. No. 9,814,868)	Apr. 30, 2015	TIP WITH EMBEDDED MATERIALS FOR SKIN TREATMENT
EDGE.005C5	US	15/660,750 (Pat. No. 10/357,641)	Jul. 26, 2017	TIPS FOR SKIN TREATMENT DEVICE
EDGE.005C6	US	15/660,777 (Pat. No. 10/357,642)	Jul. 26, 2017	REMOVABLE TIPS FOR USE WITH SKIN TREATMENT SYSTEMS
EDGE.005C7	**US**	**16/517,268 (*present application*)**	**July 19, 2019**	**DEVICES AND METHODS FOR TREATING SKIN**
EDGE.005C8	US	17/165,820	Feb. 2, 2021	DEVICES AND METHODS FOR TREATING SKIN
EDGE.005C9	US	17/165,807	Feb. 2, 2021	DEVICES AND METHODS FOR TREATING SKIN
EDGE.005DP1	US	29/679299	Feb. 4, 2019	SKIN TREATMENT SYSTEM
EDGE.005DP2	US	29/679,306	Feb. 4, 2019	HANDPIECE ASSEMBLY TIP
EDGE.005DP3	US	29/679302	Feb. 4, 2019	HANDPIECE ASSEMBLY TIP
EDGE.006A	US	09/294,254 (Pat. No. 6,162,232)	Apr. 19, 1999	INSTRUMENTS AND TECHNIQUES FOR HIGH-VELOCITY FLUID ABRASION OF EPIDERMAL LAYERS WITH SKIN COOLING
EDGE.007A	US	09/475480 (Pat. No. 6,299,620)	Dec. 30, 1999	INSTRUMENTS AND TECHNIQUES FOR INDUCING NEOCOLLAGENESIS IN SKIN TREATMENTS
EDGE.008A	US	09/475479 (Pat. No. 6,387,103)	Dec. 30, 1999	INSTRUMENTS AND TECHNIQUES FOR INDUCING NEOCOLLAGENESIS IN SKIN TREATMENTS

Attorney Docket No.	Country	App. No. (Pat. No., if appl.)	Filing Date	Title
EDGE.022A	US	11/370,200	Mar. 7, 2006	MICRODERMABRASION METHOD AND APPARATUS
EDGE.044A	US	12/362,353 (Pat. No. 9,056,193)	Jan. 29, 2009	APPARATUS AND METHOD FOR TREATING THE SKIN
EDGE.044C1	US	14/734,995 (Pat. No. 11,020,577)	Jun. 9, 2015	DEVICES AND SYSTEMS FOR TREATING SKIN SURFACES
EDGE.044C2	US	17/332,897	May 27, 2021	DEVICES, SYSTEMS, AND METHODS FOR TREATING THE SKIN
EDGE.044CP1	US	12/832,663 (Pat. No. 8,814,836)	Jul 8, 2010	DEVICES, SYSTEMS AND METHODS FOR TREATING THE SKIN USING TIME-RELEASE SUBSTANCES
EDGE.044P1C1	US	14/455,762 (Pat. No. 9,642,997)	Aug. 8, 2014	DEVICES FOR TREATING SKIN USING TREATMENT MATERIALS LOCATED ALONG A TIP
EDGE.044P1C2	US	15/588,102 (Pat. No. 10,556,097)	May 5, 2017	DEVICES FOR TREATING SKIN USING TREATMENT MATERIALS LOCATED ALONG A TIP
EDGE.044P1C3	US	16/784,850	Feb. 7, 2020	DEVICES AND METHODS FOR TREATING SKIN
EDGE.047A	US	12/346,582 (Pat. No. 8,343,116)	Dec. 30, 2008	APPARATUS AND METHOD FOR TREATING THE SKIN
EDGE.047C1	US	13/620,376 (Pat. No. 9,486,615)	Sep. 14, 2012	MICRODERMABRASION APPARATUS AND METHOD
EDGE.047C2	US	15/344,357 (Pat. No. 10,556,096)	Nov. 4, 2016	DEVICES AND METHODS FOR SKIN TREATMENT
EDGE.047C3	US	16/784,044	Feb. 6, 2020	DEVICES AND METHODS FOR SKIN TREATMENT
EDGE.050A	US	09/540,945 (Pat. No. 6,592,595)	Mar. 31, 2000	MICRODERMABRASION AND SUCTION MASSAGE APPARATUS AND METHOD
EDGE.050C1	US	09/698,409 (Pat. No. 6,527,783)	Oct. 27, 2000	MICRODERMABRASION AND SUCTION MASSAGE APPARATUS AND METHOD
EDGE.050DV1	US	10/177,173 (Pat. No. 6,673,082)	Jun. 20, 2002	MICRODERMABRASION HANDPIECE WITH SUPPLY AND RETURN LUMENS
EDGE.051A	US	10/315,478 (Pat. No. 6,942,649)	Dec. 10, 2002	MICRODERMABRASION FLUID APPLICATION SYSTEM AND METHOD
EDGE.052A	US	09/699,220 (Pat. No. 6,629,983)	Oct. 27, 2000	APPARATUS AND METHOD FOR SKIN/SURFACE ABRASION
EDGE.065A	US	14/211,089 (Pat. No. 10,238,812)	Mar. 14, 2014	SKIN TREATMENT SYSTEMS AND METHODS USING NEEDLES
EDGE.065C1	US	16/363,310	Mar. 25, 2019	SKIN TREATMENT SYSTEMS AND METHODS USING NEEDLES
EDGE.077A	US	14/211,290 (Pat. No. 9,566,088)	Mar. 14, 2014	DEVICES, SYSTEMS AND METHODS FOR TREATING THE SKIN
EDGE.077C1	US	15/430,209 (Pat. No. 10,251,675)	Feb. 10, 2017	DEVICES, SYSTEMS AND METHODS FOR TREATING THE SKIN
EDGE.077C2	US	16/376,956	Apr. 5, 2019	DEVICES, SYSTEMS AND METHODS FOR TREATING THE SKIN
EDGE.077NP	US	14/774,641 (Pat. 10,172,644)	Sep. 10, 2015	DEVICES, SYSTEMS AND METHODS FOR TREATING THE SKIN
EDGE.077NPC1	US	16/241,572 (Pat. No. 10,993,743)	Jan. 7, 2019	DEVICES, SYSTEMS AND METHODS FOR TREATING THE SKIN
EDGE.077NPC2	US	17/163,128	Jan. 29, 2021	DEVICES, SYSTEMS AND METHODS FOR TREATING THE SKIN
EDGE.077NPC3	US	17/163,199	Jan. 29, 2021	DEVICES, SYSTEMS AND METHODS FOR TREATING THE SKIN

Attorney Docket No.	Country	App. No. (Pat. No., if appl.)	Filing Date	Title
EDGE.077NPC4	US	17/163,237	Jan. 29, 2021	DEVICES, SYSTEMS AND METHODS FOR TREATING THE SKIN
EDGE.077NPC5	US	17/163,240	Jan. 29, 2021	DEVICES, SYSTEMS AND METHODS FOR TREATING THE SKIN
EDGE.090A	US	14/998,375 (Pat. No. 9,498,610)	Dec. 23, 2015	DEVICES AND METHODS FOR TREATING THE SKIN USING A ROLLERBALL OR A WICKING MEMBER
EDGE.090C1	US	15/354,754 (Pat. No. 10,035,007)	Nov. 17, 2016	DEVICES AND METHODS FOR TREATING THE SKIN
EDGE.090C2	US	16/040,397	July 19, 2018	DEVICES AND METHODS FOR TREATING THE SKIN
EDGE.090C3	US	17/164,580	Feb. 1, 2021	DEVICES AND METHODS FOR TREATING THE SKIN
EDGE.090P1	US	15/498,416 (Pat. No. 10,179,229)	Apr. 26, 2017	DEVICES AND METHODS FOR TREATING THE SKIN USING A POROUS MEMBER
EDGE.090P1C1	US	16/246306	Jan. 11, 2019	DEVICES AND METHODS FOR TREATING THE SKIN USING A POROUS MEMBER
EDGE.091A	US	15/204,939	Jul. 7, 2016	DEVICES, SYSTEMS AND METHODS FOR PROMOTING HAIR GROWTH

Copies of these patents and patent applications, including any pending claims, office actions, allowances and/or other communications, are available through PALM and/or PAIR. However, if the Examiner so requests, Applicant will be happy to provide the Examiner with copies of any applications, pending claims, office actions, allowances, communications or any other documents, at any time.

Further, Applicant notes for the record that the claims of the present application are different and may be broader in scope than the claims in any related patent or application. To the extent that any statements made in a related case (such as amendments or characterizations regarding the scope of a claim or prior art) could be construed as a disclaimer of any subject matter supported by the present disclosure, Applicant rescinds and retracts such disclaimer. Accordingly, any listed or referenced prior art may need to be re-visited. Further, any objections or rejections made by the Examiner in the issued and allowed cases identified above may need to be re-visited.

Timing of Disclosure

This Information Disclosure Statement is being filed after receipt of a First Office Action, but before the mailing date of a Final Action and before the mailing date of a Notice of Allowance.

This Statement is accompanied by the fees set forth in 37 CFR 1.17(p). The Commissioner is hereby authorized to charge any additional fees which may be required or to credit any overpayment to Account No. 11-1410.

Respectfully submitted,

KNOBBE, MARTENS, OLSON & BEAR, LLP

Dated: Aug. 16, 2021

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53919496

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
16/517,268	07/19/2019	Roger Ignon	EDGE.005C7	9432

20995 7590 05/05/2021

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EXAMINER	
KNAUSS, CHRISTIAN D	

ART UNIT	PAPER NUMBER
3771	

NOTIFICATION DATE	DELIVERY MODE
05/05/2021	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

efiling@knobbe.com
jayna.cartee@knobbe.com

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Alexandria, VA 22313-1450
www.uspto.gov

In re Application of	:	
Ignon et al.	:	
Application No. 16/517,268	:	DECISION ON PETITION
Filed: July 19, 2019	:	
For: DEVICES AND METHODS FOR TREATING SKIN	:	

This is a decision on the petition under 37 CFR 1.102(c)(1), filed March 18, 2021, to make the above-identified application special based on applicant's age, as set forth in MPEP § 708.02, Section II.

The Petition is **GRANTED.**

A grantable petition to make an application special under 37 CFR 1.102(c)(1) and MPEP § 708.02, Section II: Applicant's Age, must be accompanied by evidence showing that the applicant is 65 years of age, or more, such as applicant's statement or a statement from a registered practitioner that he or she has evidence that the applicant is 65 years of age or older. No fee is required.

The instant petition includes a statement by registered attorney Theodore G. Papagiannis, having evidence one of the joint inventors in the application is 65 years of age or older. Accordingly, the above-identified application has been accorded "special" status.

This application file is being referred to Technology Center Au 3771 for action on the merits to commensurate with this decision.

Telephone inquiries concerning this decision should be directed to Schene Gray Paralegal Specialist at (571) 272-2581. All inquiries concerning the status of the processing of the application should be directed to TC 3700 at (571) 272-3700.

/JOANNE L BURKE/
Lead Paralegal Specialist, OPET

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
16/517,268	07/19/2019	Roger Ignon	EDGE.005C7	9432

20995 7590 04/26/2021
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IRVINE, CA 92614

EXAMINER	
KNAUSS, CHRISTIAN D	

ART UNIT	PAPER NUMBER
3771	

NOTIFICATION DATE	DELIVERY MODE
04/26/2021	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

efiling@knobbe.com
jayna.cartee@knobbe.com

Applicant-Initiated Interview Summary	Application No. 16/517,268	Applicant(s) Ignon et al.		
	Examiner CHRISTIAN D KNAUSS	Art Unit 3771	AIA (First Inventor to File) Status No	Page 1 of 2

All Participants (applicant, applicants representative, PTO personnel)	Title	Type
CHRISTIAN D KNAUSS	Examiner	Telephonic
THEODORE G PAPAGIANNIS	Attorney of Record	

Date of Interview: 20 April 2021

Issues Discussed:

Proposed Amendment(s)

The Examiner and the Applicant's representative discussed the amendment to the claims filed 3/18/21 and the claims in commonly assigned Application 14/698,673, now US Patent No. 9,550,052. The claims filed 3/18/21 will require a search and further consideration by the Examiner. No allowable subject matter was agreed upon during the interview.

Other

The Examiner and the Applicant's representative discussed the timing of the amendment filed 3/18/21. The claim set filed 7/19/19 was examined and the Non-Final Rejection was posted on 3/16/21. However, the Office Action was not mailed to the Applicant until 3/22/21. The preliminary amendment was filed on 3/18/21. The Examiner directed the Applicant's representative to MPEP 714.01(e), which discusses the appropriate timing for filing preliminary amendments and states that the applicant can resubmit the amendment along with a responsive reply under 37 CFR 1.111 to ensure proper entry of the amendment
.

/CHRISTIAN D KNAUSS/ Examiner, Art Unit 3771	/DIANE D YABUT/ Primary Examiner, Art Unit 3771

Applicant is reminded that a complete written statement as to the substance of the interview must be made of record in the application file. It is the applicants responsibility to provide the written statement, unless the interview was initiated by the Examiner and the Examiner has indicated that a written summary will be provided. See MPEP 713.04
Please further see:
MPEP 713.04
Title 37 Code of Federal Regulations (CFR) § 1.133 Interviews, paragraph (b)
37 CFR § 1.2 Business to be transacted in writing

Applicant recordation instructions: The formal written reply to the last Office action must include the substance of the interview. (See MPEP section 713.04). If a reply to the last Office action has already been filed, applicant is given a non-extendable period of the longer of one month or thirty days from this interview date, or the mailing date of this interview summary form, whichever is later, to file a statement of the substance of the interview.

Examiner recordation instructions: Examiners must summarize the substance of any interview of record. A complete and proper recordation of the substance of an interview should include the items listed in MPEP 713.04 for complete and proper recordation including the identification of the general thrust of each argument or issue discussed, a general

indication of any other pertinent matters discussed regarding patentability and the general results or outcome of the interview, to include an indication as to whether or not agreement was reached on the issues raised.

Doc Code: ECOMM.AUTH/ECOMM.WTDW
Doc Description: Internet Communications Authorized/Internet Communications Authorization Withdrawn

PTO/SB/439 (11-15)

AUTHORIZATION FOR INTERNET COMMUNICATIONS IN A PATENT APPLICATION OR REQUEST TO WITHDRAW AUTHORIZATION FOR INTERNET COMMUNICATIONS

Application No.	16/517,268
Filing Date	July 19, 2019
First Named Inventor	Roger Ignon
Art Unit	3771
Examiner Name	Christian D. Knauss
Practitioner Docket No.	EDGE.005C7

To: Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

I. To authorize permission for Internet Communications.

☑ Recognizing that Internet communications are not secure, I hereby authorize the USPTO to communicate with the undersigned and practitioners in accordance with 37 CFR 1.33 and 37 CFR 1.34 concerning any subject matter of this application via video conferencing, instant messaging, or electronic mail. I understand that a copy of these communications will be made of record in the application file. (MPEP 502.03)

II. To withdraw authorization for Internet Communications.

☐ The authorization given on _____, to the USPTO to communicate with the undersigned and any practitioner in accordance with 37 CFR 1.33 and 37 CFR 1.34 concerning any subject matter of this application via Internet communications such as video conferencing, instant messaging, or electronic mail is hereby withdrawn. I understand that the withdrawal is effective when approved rather than when received.

I am the

☐ applicant.

☑ attorney or agent of record. Registration number 61,546.

☐ attorney or agent acting under 37 CFR 1.34. Registration number _____.

/Theodore G. Papagiannis/ — Signature

April 20, 2021 — Date

Theodore G. Papagiannis — Typed or printed name

(949) 760-0404 — Telephone Number

NOTE: This form must be signed in accordance with 37 CFR 1.33. See 37 CFR 1.4 for signature requirements and certifications. Juristic entities must be represented by a patent practitioner (see 37 CFR 1.31, which is applicable to any paper filed on or after September 16, 2012, that is presented on behalf of a juristic entity, regardless of application filing date). Submit multiple forms if more than one signature is required, see below*.

☑ * Total of 1 forms are submitted.

Privacy Act Statement

The **Privacy Act of 1974 (P.L. 93-579)** requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether disclosure of these records is required by the Freedom of Information Act.
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3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (*i.e.*, GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspection or an issued patent.
9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

Electronic Acknowledgement Receipt

EFS ID:	42495219
Application Number:	16517268
International Application Number:	
Confirmation Number:	9432
Title of Invention:	DEVICES AND METHODS FOR TREATING SKIN
First Named Inventor/Applicant Name:	Roger Ignon
Customer Number:	20995
Filer:	Theodore G. Papagiannis
Filer Authorized By:	
Attorney Docket Number:	EDGE.005C7
Receipt Date:	20-APR-2021
Filing Date:	19-JUL-2019
Time Stamp:	08:32:58
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Internet Communications Authorized	EDGE005C7_ElecAuth.pdf	88424 ad14764ac33d9a3c904807326edd9767d29706a0	no	2

Warnings:

Information:	
Total Files Size (in bytes):	88424

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111
If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.
National Stage of an International Application under 35 U.S.C. 371
If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.
New International Application Filed with the USPTO as a Receiving Office
If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
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APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
16/517,268	07/19/2019	Roger Ignon	EDGE.005C7

CONFIRMATION NO. 9432

20995
KNOBBE MARTENS OLSON & BEAR LLP
2040 MAIN STREET
FOURTEENTH FLOOR
IRVINE, CA 92614

POA ACCEPTANCE LETTER

OC000000124281203

Date Mailed: 03/23/2021

NOTICE OF ACCEPTANCE OF POWER OF ATTORNEY

This is in response to the Power of Attorney filed 03/19/2021.

The Power of Attorney in this application is accepted. Correspondence in this application will be mailed to the above address as provided by 37 CFR 1.33.

Questions about the contents of this notice and the requirements it sets forth should be directed to the Office of Data Management, Application Assistance Unit, at **(571) 272-4000** or **(571) 272-4200** or **1-888-786-0101**.

/qtran/

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
16/517,268	07/19/2019	Roger Ignon	EDGE.005C7	9432

20995 7590 03/22/2021
KNOBBE MARTENS OLSON & BEAR LLP
2040 MAIN STREET
FOURTEENTH FLOOR
IRVINE, CA 92614

EXAMINER	
KNAUSS, CHRISTIAN D	

ART UNIT	PAPER NUMBER
3771	

NOTIFICATION DATE	DELIVERY MODE
03/22/2021	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

efiling@knobbe.com
jayna.cartee@knobbe.com

Office Action Summary	Application No. 16/517,268	Applicant(s) Ignon et al.	
	Examiner CHRISTIAN D KNAUSS	Art Unit 3771	AIA (FITF) Status No

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTHS FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☑ Responsive to communication(s) filed on 19 July 2019.

☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on _____.

2a)☐ This action is **FINAL.** 2b) ☑ This action is non-final.

3)☐ An election was made by the applicant in response to a restriction requirement set forth during the interview on _____; the restriction requirement and election have been incorporated into this action.

4)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims*

5) ☑ Claim(s) 1 is/are pending in the application.

5a) Of the above claim(s) _____ is/are withdrawn from consideration.

6) ☐ Claim(s) _____ is/are allowed.

7) ☑ Claim(s) 1 is/are rejected.

8) ☐ Claim(s) _____ is/are objected to.

9) ☐ Claim(s) _____ are subject to restriction and/or election requirement

* If any claims have been determined allowable, you may be eligible to benefit from the **Patent Prosecution Highway** program at a participating intellectual property office for the corresponding application. For more information, please see http://www.uspto.gov/patents/init_events/pph/index.jsp or send an inquiry to **PPHfeedback@uspto.gov.**

Application Papers

10)☐ The specification is objected to by the Examiner.

11)☑ The drawing(s) filed on 19 July 2019 is/are: a)☑ accepted or b)☐ objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

Priority under 35 U.S.C. § 119

12)☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

Certified copies:

a)☐ All b)☐ Some** c)☐ None of the:

1.☐ Certified copies of the priority documents have been received.

2.☐ Certified copies of the priority documents have been received in Application No. _____.

3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

** See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) ☑ Notice of References Cited (PTO-892)

2) ☐ Information Disclosure Statement(s) (PTO/SB/08a and/or PTO/SB/08b) Paper No(s)/Mail Date _____.

3) ☐ Interview Summary (PTO-413) Paper No(s)/Mail Date _____.

4) ☐ Other: _____.

DETAILED ACTION

Notice of Pre-AIA or AIA Status

1. The present application is being examined under the pre-AIA first to invent provisions.

Claim Rejections - 35 USC § 103

2. The following is a quotation of pre-AIA 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

> (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

3. Claim 1 is rejected under pre-AIA 35 U.S.C. 103(a) as being unpatentable over Coleman et al. (US 2001/0049511 A1) ("Coleman") in view of Slagle (US 3,930,598).

Regarding claim 1, Coleman discloses (Figures 5A, 5B, 6) an apparatus for treating skin, the apparatus comprising: a console (dotted line box in Figure 6) having a user input device (59A, 59B, 64A, 64B, 67; paragraph 0052) and a handpiece assembly (50), which is configured to treat skin; a fluid line (51A) providing fluid communication between the console and the handpiece assembly (paragraph 0053); and a manifold system (see Figure 6 annotated below) coupled to the console and controlled by the user input device (paragraphs 0062 and 0063), the manifold system capable of holding a plurality of fluid sources (60A, 60B, 60C) and deliver fluid from at least one of the plurality of fluid sources to the handpiece assembly. However, Coleman fails to explicitly disclose that the manifold system releasably holds a plurality of fluid sources.

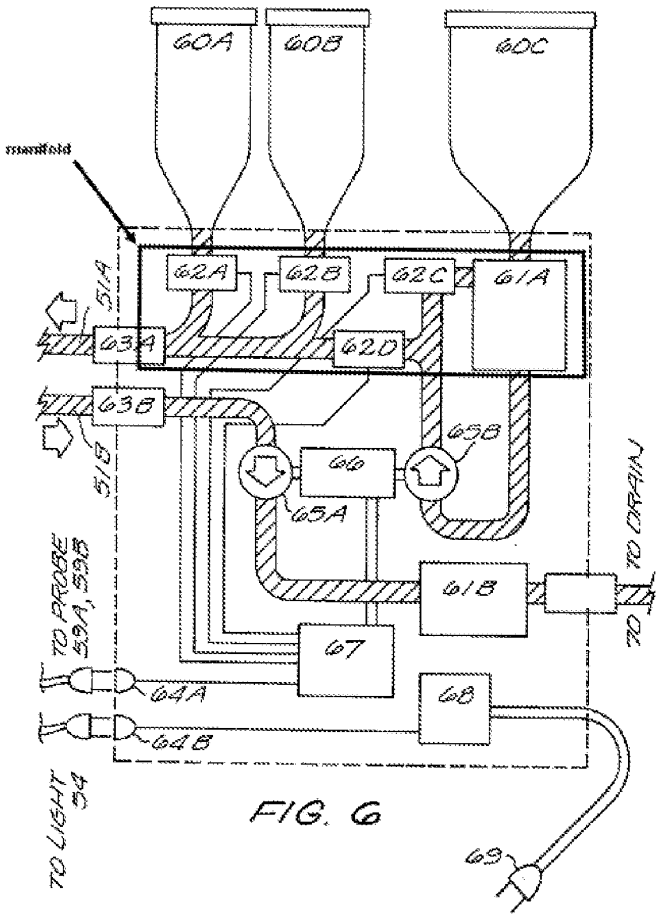


FIG. 6

Slagle teaches (Figure 2) an analogous fluid dispensing apparatus comprising a manifold (20) that releasably holds a plurality of fluid sources (X). Slagle teaches that the spent fluid sources (bottles) can be replaced with new, full bottles (Column 12, lines 33-36).

It would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the manifold system disclosed by Coleman to releasably hold the fluid sources, as taught by Slagle. This modification would allow the spent fluid sources to be replaced with new, full fluid sources (Slagle, Column 12, lines 33-36).

Alternately, this modification would allow the fluid sources to be removed from the manifold after use, sanitized, refilled, and used again in another procedure.

Conclusion

4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure: Muldner (US 6,277,128 B1; Figures 1-10).

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to CHRISTIAN D KNAUSS whose telephone number is (571)272-8641. The examiner can normally be reached on M-F 12:30-8:30.

Examiner interviews are available via telephone, in-person, and video conferencing using a USPTO supplied web-based collaboration tool. To schedule an interview, applicant is encouraged to use the USPTO Automated Interview Request (AIR) at http://www.uspto.gov/interviewpractice.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Darwin Erezo can be reached on 571-272-4695. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see https://ppair-my.uspto.gov/pair/PrivatePair. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/C.D.K/
Examiner, Art Unit 3771

/DIANE D YABUT/
Primary Examiner, Art Unit 3771

Notice of References Cited	Application/Control No. 16/517,268	Applicant(s)/Patent Under Reexamination Ignon et al.	
	Examiner CHRISTIAN D KNAUSS	Art Unit 3771	Page 1 of 1

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	CPC Classification	US Classification
*	A	US-20010049511-A1	12-2001	COLEMAN, WILLIAM P.	A61H9/00	604/290
*	B	US-3930598-A	01-1976	Slagle; William E.	B67D3/00	222/129.4
*	C	US-6277128-B1	08-2001	Muldner; J. Scott	A61B17/545	606/131
	D					
	E					
	F					
	G					
	H					
	I					
	J					
	K					
	L					
	M					

FOREIGN PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	CPC Classification
	N					
	O					
	P					
	Q					
	R					
	S					
	T					

NON-PATENT DOCUMENTS

*		Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)
	U	
	V	
	W	
	X	

*A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).)
Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.

Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	16/517,268	Ignon et al.
	Examiner	Art Unit
	CHRISTIAN D KNAUSS	3771

CPC - Searched*		
Symbol	**Date**	**Examiner**
A61B17/50, 54, 545	03/12/2021	CDK
A61B2017/00017, 00199, 00743, 00747, 00761	03/12/2021	CDK
A61B19/0248	03/12/2021	CDK
A61B2019/025	03/12/2021	CDK
A61B2217/005, 007	03/12/2021	CDK
A61M35/003	03/12/2021	CDK
A61N5/0616	03/12/2021	CDK
A61B50/10, 13	03/12/2021	CDK

CPC Combination Sets - Searched*		
Symbol	**Date**	**Examiner**

US Classification - Searched*			
Class	**Subclass**	**Date**	**Examiner**

* See search history printout included with this form or the SEARCH NOTES box below to determine the scope of the search.

Search Notes		
Search Notes	**Date**	**Examiner**
Performed inventor and assignee searches	03/12/2021	CDK
Performed SEARCH	03/12/2021	CDK
Performed backward/forward searches	03/12/2021	CDK
Performed CPC subgroup/text searches and combinations	03/12/2021	CDK

/C.D.K/ Examiner, Art Unit 3771	

Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	16/517,268	Ignon et al.
	Examiner	Art Unit
	CHRISTIAN D KNAUSS	3771

Interference Search			
US Class/CPC Symbol	US Subclass/CPC Group	Date	Examiner

/C.D.K/ Examiner, Art Unit 3771	

Bibliographic Data

Application No: 16/517,268

Foreign Priority claimed: ○ Yes ◉ No

35 USC 119 (a-d) conditions met: ☐ Yes ☐ No ☐ Met After Allowance

Verified and Acknowledged: /CHRISTIAN D KNAUSS/ Examiner's Signature | Initials

Title: DEVICES AND METHODS FOR TREATING SKIN

FILING or 371(c) DATE	CLASS	GROUP ART UNIT	ATTORNEY DOCKET NO.
07/19/2019	606	3771	EDGE.005C7
RULE			

APPLICANTS

EDGE SYSTEMS LLC, Signal Hill, CA,

INVENTORS

Roger Ignon, Redondo Beach, CA, UNITED STATES

Scott Mallett, Coto De Caza, CA, UNITED STATES

Abraham Solano, Corona, CA, UNITED STATES

William Cohen, Los Alamitos, CA, UNITED STATES

CONTINUING DATA OK /CK/

This application is a CON of 15660750 07/26/2017 PAT 10357641

15660750 is a CON of 14700789 04/30/2015 PAT 9814868

14700789 is a CON of 13267554 10/06/2011 PAT 9474886

13267554 is a CON of 11392348 03/29/2006 PAT 8048089

11392348 has PRO of 60764668 02/02/2006

11392348 has PRO of 60755310 12/30/2005

FOREIGN APPLICATIONS none /CK/

IF REQUIRED, FOREIGN LICENSE GRANTED**

08/01/2019

** **SMALL ENTITY** **

STATE OR COUNTRY

UNITED STATES

ADDRESS

KNOBBE MARTENS OLSON & BEAR LLP

2040 MAIN STREET

FOURTEENTH FLOOR

IRVINE, CA 92614
UNITED STATES

FILING FEE RECEIVED

$785

PE2E SEARCH - Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	British Equivalents	Time Stamp
L1	29	(roger near2 ignon).in.	(US-PGPUB ; USPAT)	OR	OFF	OFF	2015/07/21 04:07 AM
L2	101	(scott near2 mallett).in.	(US-PGPUB ; USPAT)	OR	OFF	OFF	2015/07/21 04:07 AM
L3	3	(abraham near2 solano).in.	(US-PGPUB ; USPAT)	OR	OFF	OFF	2015/07/21 04:07 AM
L4	100	(william near2 cohen).in.	(US-PGPUB ; USPAT)	OR	OFF	OFF	2015/07/21 04:07 AM
L5	24	(edge near2 systems).as.	(US-PGPUB ; USPAT)	OR	OFF	OFF	2015/07/21 04:07 AM

L6	310	US-1234567-$.DID. OR US-2608032-$.DID. OR US-2701559-$.DID. OR US-2712823-$.DID. OR US-2867214-$.DID. OR US-2881763-$.DID. OR US-2921585-$.DID. OR US-3085573-$.DID. OR US-3214869-$.DID. OR US-3476112-$.DID. OR US-3574239-$.DID. OR US-3715838-$.DID. OR US-3948265-$.DID. OR US-3964212-$.DID. OR US-3977084-$.DID. OR US-4121388-$.DID. OR US-4155721-$.DID. OR US-4182329-$.DID. OR US-4203431-$.DID. OR US-4216233-$.DID. OR US-4299219-$.DID. OR US-4378804-$.DID. OR US-4560373-$.DID. OR US-4646480-$.DID. OR US-4646482-$.DID. OR US-4655743-$.DID. OR US-4676749-$.DID. OR US-4706676-$.DID. OR US-4754756-$.DID. OR US-4757814-$.DID. OR US-4764362-$.DID. OR US-4795421-$.DID. OR US-4875287-$.DID. OR US-4886078-$.DID. OR US-4887994-$.DID. OR US-4900316-$.DID. OR US-4917086-$.DID. OR US-4925450-$.DID. OR US-4957747-$.DID. OR US-5006004-$.DID. OR US-5006339-$.DID. OR US-5012797-$.DID. OR US-5035089-$.DID. OR US-5037431-$.DID. OR US-5037432-$.DID. OR US-5100412-$.DID. OR US-5100424-$.DID. OR US-5119839-$.DID. OR US-5122153-$.DID. OR US-5207234-$.DID. OR US-5222956-$.DID. OR US-5242433-$.DID. OR US-5254109-$.DID. OR US-5368581-$.DID. OR US-5391151-$.DID. OR US-5417674-$.DID. OR US-5419772-$.DID. OR US-5460620-$.DID. OR US-5470323-$.DID. OR US-5484427-$.DID. OR US-5562642-$.DID. OR US-5611687-$.DID. OR US-5612797-$.DID. OR US-5674235-$.DID. OR US-5676643-$.DID. OR US-5676648-$.DID. OR US-5683971-$.DID. OR US-5707383-$.DID. OR US-5713785-$.DID. OR US-5759185-$.DID. OR	(US-PGPUB ; USPAT)	OR	OFF	OFF	2015/07/21 04:07 AM

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L8	0	14/698,673	(US-PGPUB ; USPAT ; EPO ; JPO)	OR	OFF	OFF	2015/07/21 04:07 AM
L9	484	(console and manifold and fluid and container and hand$7 and (conduit tube) and vacuum)	(US-PGPUB ; USPAT ; EPO ; JPO)	OR	OFF	OFF	2015/07/21 05:07 AM
L10	498	A61B17/54.cpc.	(US-PGPUB ; USPAT)	OR	OFF	OFF	2015/07/21 06:07 AM
L11	136	A61B17/545.cpc.	(US-PGPUB ; USPAT)	OR	OFF	OFF	2015/07/21 06:07 AM
L12	583	A61B19/0248.cpc.	(US-PGPUB ; USPAT)	OR	OFF	OFF	2015/07/21 06:07 AM
L13	511	A61B2019/025.cpc.	(US-PGPUB ; USPAT)	OR	OFF	OFF	2015/07/21 06:07 AM
L14	1159	A61B2017/00199.cpc.	(US-PGPUB ; USPAT)	OR	OFF	OFF	2015/07/21 06:07 AM
L15	955	A61B2017/00017.cpc.	(US-PGPUB ; USPAT)	OR	OFF	OFF	2015/07/21 07:07 AM
L16	2160	A61B2217/005.cpc.	(US-PGPUB ; USPAT)	OR	OFF	OFF	2015/07/21 07:07 AM
L17	1269	A61B2217/007.cpc.	(US-PGPUB ; USPAT)	OR	OFF	OFF	2015/07/21 07:07 AM
L18	38	("4183470" | "5186625" | "5240842" | "5350299" | "5362494" | "5441174" | "5547376" | "5591184" | "5634791" | "5657760" | "5752829" | "Re31887").PN. OR ("6264666").URPN.	(US-PGPUB ; USPAT ; USOCR)	OR	OFF	OFF	2015/07/21 10:07 AM
L19	59	("1772545" | "2109259" | "2453080" | "2547823" | "2618410" | "2711268" | "2962193" | "3217887" | "3647118").PN. OR ("3930598").URPN.	(US-PGPUB ; USPAT ; USOCR)	OR	OFF	OFF	2015/07/22 02:07 AM

L20	19	("3815286" | "5037432" | "5207234" | "5971999").PN. OR ("6238275").URPN.	(US-PGPUB ; USPAT ; USOCR)	OR	OFF	OFF	2015/07/22 04:07 AM
L21	51	("20010023351" | "2701559" | "2712823" | "2867214" | "2881763" | "2921585" | "3964212" | "4378804" | "4957747" | "5012797" | "5037431" | "5037432" | "5100412" | "5207034" | "5207234" | "5620414" | "5800446" | "5810842" | "5954730" | "5971999" | "6019749" | "6039745" | "6042552" | "6080165" | "6120512" | "6238275" | "6303119").PN. OR ("6527783").URPN.	(US-PGPUB ; USPAT ; USOCR)	OR	OFF	OFF	2015/07/22 04:07 AM
L22	32	("20010023351" | "5037432" | "5100412" | "5207034" | "5207234" | "5620414" | "5810842" | "5954730" | "5971999" | "6019749" | "6039745" | "6080165" | "6120512" | "6139554" | "6196982" | "6235039" | "6238275" | "6241739" | "6250996" | "6277003" | "6306119" | "6390899").PN. OR ("6673082").URPN.	(US-PGPUB ; USPAT ; USOCR)	OR	OFF	OFF	2015/07/22 04:07 AM
L23	42	("20010023351" | "4572187" | "5037432" | "5100412" | "5154696" | "5207234" | "5354307" | "5810842" | "5954730" | "5971999" | "6019749" | "6039745" | "6080165" | "6162232" | "6196982" | "6235039" | "6241739" | "6250996" | "6299620" | "6319211" | "6391034" | "6423078" | "6432113" | "6629983" | "6652888").PN. OR ("6942649").URPN.	(US-PGPUB ; USPAT ; USOCR)	OR	OFF	OFF	2015/07/22 04:07 AM
L24	38	("5037432" | "5100412" | "5810842" | "5971999").PN. OR ("6080165").URPN.	(US-PGPUB ; USPAT ; USOCR)	OR	OFF	OFF	2015/07/22 04:07 AM
L25	43	("20010023351" | "2701559" | "2712823" | "2867214" | "2881763" | "2921585" | "3964212" | "4378804" | "4957747" | "5012797" | "5037431" | "5037432" | "5100412" | "5154696" | "5207234" | "5800446" | "5810842" | "5954730" | "5971999" | "6019749" | "6039745" | "6042552" | "6080165" | "6196982" | "6235039" | "6241739" | "6250996" | "6319211").PN. OR ("6592595").URPN.	(US-PGPUB ; USPAT ; USOCR)	OR	OFF	OFF	2015/07/22 04:07 AM

L26	32	("20010023351" | "5037432" | "5100412" | "5207034" | "5207234" | "5620414" | "5810842" | "5954730" | "5971999" | "6019749" | "6039745" | "6080165" | "6120512" | "6139554" | "6196982" | "6235039" | "6238275" | "6241739" | "6250996" | "6277003" | "6306119" | "6390899").PN. OR ("6673082").URPN.	(US-PGPUB ; USPAT ; USOCR)	OR	OFF	OFF	2015/07/22 04:07 AM
L27	19	("3815286" | "5037432" | "5207234" | "5971999").PN. OR ("6238275").URPN.	(US-PGPUB ; USPAT ; USOCR)	OR	OFF	OFF	2015/07/22 04:07 AM
L28	38	("4183470" | "5186625" | "5240842" | "5350299" | "5362494" | "5441174" | "5547376" | "5591184" | "5634791" | "5657760" | "5752829" | "Re31887").PN. OR ("6264666").URPN.	(US-PGPUB ; USPAT ; USOCR)	OR	OFF	OFF	2015/07/22 04:07 AM
L29	38	("2608032" | "2921585" | "3574239" | "3715838" | "4375740" | "4482322" | "4560373" | "4646480" | "4671867" | "4676749" | "4757814" | "4765099" | "5037431" | "5037432" | "5100412" | "5207234" | "5309683" | "5460604" | "5547376" | "5765759" | "5810587" | "5810842" | "6039745").PN. OR ("6277128").URPN.	(US-PGPUB ; USPAT ; USOCR)	OR	OFF	OFF	2015/07/22 04:07 AM
L30	14	("3815286" | "5037431" | "6183148" | "6193589" | "6235039" | "6238275" | "6322568").PN. OR ("6503256").URPN.	(US-PGPUB ; USPAT ; USOCR)	OR	OFF	OFF	2015/07/22 04:07 AM
L31	59	("1772545" | "2109259" | "2453080" | "2547823" | "2618410" | "2711268" | "2962193" | "3217887" | "3647118").PN. OR ("3930598").URPN.	(US-PGPUB ; USPAT ; USOCR)	OR	OFF	OFF	2015/07/22 04:07 AM

L32	82	("0882532" | "1882040" | "1898652" | "2228676" | "2266931" | "2338339" | "2655146" | "2701559" | "2712823" | "2867214" | "2881763" | "2921585" | "3236231" | "3736921" | "3818904" | "3841322" | "3841323" | "3964212" | "4003373" | "4241499" | "4378804" | "4560373" | "4572187" | "4646480" | "4836192" | "4957747" | "5012797" | "5037431" | "5037432" | "5100412" | "5207234" | "5377701" | "5699810" | "5800440" | "5810842" | "5954730" | "5971999" | "6039745" | "6042552" | "6080165" | "6120512" | "6139554" | "6149634" | "6196982" | "6241739" | "6283078" | "6299620" | "6319211" | "6500183" | "6511486").PN. OR ("6695853").URPN.	(US-PGPUB ; USPAT ; USOCR)	OR	OFF	OFF	2015/07/22 04:07 AM
L33	107	("2608032" | "2921585" | "3085573" | "3574239" | "3715838" | "4560373" | "4646480" | "4676749" | "4757814").PN. OR ("5037432").URPN.	(US-PGPUB ; USPAT ; USOCR)	OR	OFF	OFF	2015/07/22 04:07 AM
L34	33	("20030093089" | "2701559" | "2712823" | "2867214" | "2881763" | "2921585" | "3964312" | "4378804" | "5012797" | "5037431" | "5037432" | "5100412" | "5800446" | "5971999" | "6039745" | "6241739" | "6277128" | "6299620" | "6432114" | "6500183" | "6582442" | "6592595" | "6629983" | "6695853" | "6911031" | "7070488").PN. OR ("7651508").URPN.	(US-PGPUB ; USPAT ; USOCR)	OR	OFF	OFF	2015/07/22 04:07 AM
L35	38	("4183470" | "5186625" | "5240842" | "5350299" | "5362494" | "5441174" | "5547376" | "5591184" | "5634791" | "5657760" | "5752829" | "Re31887").PN. OR ("6264666").URPN.	(US-PGPUB ; USPAT ; USOCR)	OR	OFF	OFF	2015/07/22 08:07 AM
L36	6	(manifold same container same (antimicrobial disenfect$4))	(US-PGPUB ; USPAT ; EPO ; JPO)	OR	OFF	OFF	2015/07/22 10:07 AM
L37	140	(manifold same container same (antimicrobial disenfect$4 surfactant sanitiz$5))	(US-PGPUB ; USPAT ; EPO ; JPO)	OR	OFF	OFF	2015/07/22 10:07 AM

L38	378	(manifold with (clean$4 sanitiz$4) with container)	(US-PGPUB ; USPAT ; EPO ; JPO)	OR	OFF	OFF	2015/07/23 02:07 AM
L39	12	(manifold with (clean$4 sanitiz$4) with container) and (abrasion or microabrasion)	(US-PGPUB ; USPAT ; EPO ; JPO)	OR	OFF	OFF	2015/07/23 02:07 AM
L40	17	("2894732" | "3378234" | "3468637").PN. OR ("3865352").URPN.	(US-PGPUB ; USPAT ; USOCR)	OR	OFF	OFF	2015/07/23 03:07 AM
L41	33	("20030093089" | "2701559" | "2712823" | "2867214" | "2881763" | "2921585" | "3964312" | "4378804" | "5012797" | "5037431" | "5037432" | "5100412" | "5800446" | "5971999" | "6039745" | "6241739" | "6277128" | "6299620" | "6432114" | "6500183" | "6582442" | "6592595" | "6629983" | "6695853" | "6911031" | "7070488").PN. OR ("7651508").URPN.	(US-PGPUB ; USPAT ; USOCR)	OR	OFF	OFF	2015/07/23 04:07 AM
L42	15	("20010023351" | "20030093089" | "20060116674" | "20070156124" | "6250996" | "7232444" | "7651508" | "D286920" | "D286921" | "D321340" | "D326920" | "D489816" | "D548326").PN. OR ("D627876").URPN.	(US-PGPUB ; USPAT ; USOCR)	OR	OFF	OFF	2015/07/23 04:07 AM
L43	15	("5037432" | "5971999").PN. OR ("6250996").URPN.	(US-PGPUB ; USPAT ; USOCR)	OR	OFF	OFF	2015/07/23 04:07 AM
L44	8	("20010023351" | "20030093089" | "20030212415" | "6250996" | "D450842").PN. OR ("D503979").URPN.	(US-PGPUB ; USPAT ; USOCR)	OR	OFF	OFF	2015/07/23 04:07 AM
L45	16	("20010023351" | "20030093089" | "20070156124" | "4653474" | "6250996" | "7232444" | "D192841" | "D224070" | "D249550" | "D326920" | "D475463" | "D489816" | "D627876").PN. OR ("D682414").URPN.	(US-PGPUB ; USPAT ; USOCR)	OR	OFF	OFF	2015/07/23 04:07 AM

L46	47	("7083580"|"7087063"|"7094252"|"7115275"|"7135011"|"7153311"|"7197359"|"7198623"|"7241208"|"7276051"|"7314326"|"7316657"|"7318828"|"7320691"|"7352801"|"7354423"|"7364565"|"7384405"|"7427273"|"7458944"|"7476205"|"7477938"|"7482314"|"7489989"|"7507067"|"7579900"|"7597901"|"7658742"|"7678120"|"7744582"|"7789886"|"7837695"|"7901373"|"7951156"|"8025669"|"8048089"|"8066716"|"8088085"|"8128638"|"8221437"|"8236008"|"8277287"|"8337513"|"8343116"|"8814836"|"RE37796"|"RE42960").PN.	(US-PGPUB ; USPAT)	OR	OFF	OFF	2016/02/23 07:02 AM
L47	3	("20080154161"|"20080208146"|"20160038183").PN.	(US-PGPUB ; USPAT)	OR	OFF	OFF	2016/08/17 04:08 AM
L48	5577	A61B17/54,545.cpc. or A61B19/0248.cpc. or A61B2019/025.cpc. or A61B2017/00199.cpc. or A61B2017/00017.cpc. or A61B2217/005,007.cpc.	(US-PGPUB ; USPAT)	OR	OFF	OFF	2016/08/17 04:08 AM
L49	442	L48 and (manifold)	(US-PGPUB ; USPAT)	OR	OFF	OFF	2016/08/17 04:08 AM
L50	250	L48 and (manifold) and liquid	(US-PGPUB ; USPAT)	OR	OFF	OFF	2016/08/17 04:08 AM
L51	11	("5037431" | "5037432" | "5100412" | "5810842").PN. OR ("6562050").URPN.	(US-PGPUB ; USPAT ; USOCR)	OR	OFF	OFF	2016/08/17 04:08 AM
L52	40	("4183470" | "5186625" | "5240842" | "5350299" | "5362494" | "5441174" | "5547376" | "5591184" | "5634791" | "5657760" | "5752829" | "Re31887").PN. OR ("6264666").URPN.	(US-PGPUB ; USPAT ; USOCR)	OR	OFF	OFF	2016/08/17 05:08 AM

L53	83	("0882532" | "1882040" | "1898652" | "2228676" | "2266931" | "2338339" | "2655146" | "2701559" | "2712823" | "2867214" | "2881763" | "2921585" | "3236231" | "3736921" | "3818904" | "3841322" | "3841323" | "3964212" | "4003373" | "4241499" | "4378804" | "4560373" | "4572187" | "4646480" | "4836192" | "4957747" | "5012797" | "5037431" | "5037432" | "5100412" | "5207234" | "5377701" | "5699810" | "5800440" | "5810842" | "5954730" | "5971999" | "6039745" | "6042552" | "6080165" | "6120512" | "6139554" | "6149634" | "6196982" | "6241739" | "6283078" | "6299620" | "6319211" | "6500183" | "6511486").PN. OR ("6695853").URPN.	(US-PGPUB ; USPAT ; USOCR)	OR	OFF	OFF	2016/08/17 05:08 AM
L54	13	("20010023351" | "20020133176" | "20020169461" | "20020183702" | "20030097139" | "20050277950" | "20060086634" | "20060129140" | "20060161178" | "20070156124" | "20070265586" | "20100030132" | "6846218").PN. OR ("8986323").URPN.	(US-PGPUB ; USPAT ; USOCR)	OR	OFF	OFF	2016/08/17 05:08 AM
L55	7	("20030208159"|"6322568"|"8236008"|"20020151908"|"20090125023"|"20110009882"|"20120136374").PN.	(US-PGPUB ; USPAT ; USOCR)	OR	OFF	OFF	2016/08/17 05:08 AM
L56	879	microdermabrasion	(US-PGPUB ; USPAT)	OR	OFF	OFF	2016/08/17 06:08 AM
L57	0	14/698,67.	(US-PGPUB ; USPAT ; EPO ; JPO)	OR	OFF	OFF	2016/08/17 08:08 AM
L58	1	14/698,673	(US-PGPUB ; USPAT ; EPO ; JPO)	OR	OFF	OFF	2016/08/17 08:08 AM
L59	406	A61B17/50.cpc.	(US-PGPUB ; USPAT)	OR	OFF	OFF	2016/08/17 08:08 AM
L60	1002	A61M35/003.cpc.	(US-PGPUB ; USPAT)	OR	OFF	OFF	2016/08/17 09:08 AM
L61	453	A61B2017/00761.cpc.	(US-PGPUB ; USPAT)	OR	OFF	OFF	2016/08/17 09:08 AM
L62	1533	A61N5/0616.cpc.	(US-PGPUB ; USPAT)	OR	OFF	OFF	2016/08/17 09:08 AM
L63	952	A61B2017/320004.cpc.	(US-PGPUB ; USPAT)	OR	OFF	OFF	2016/08/17 09:08 AM
L64	641	A61B50/10.cpc.	(US-PGPUB ; USPAT ; EPO ; JPO)	OR	OFF	OFF	2016/08/18 07:08 AM

L65	16	A61B50/10.cpc. and (microdermabra$5 or abra$5)	(US-PGPUB ; USPAT ; EPO ; JPO)	OR	OFF	OFF	2016/08/18 08:08 AM
L66	622	A61B50/13.cpc.	(US-PGPUB ; USPAT ; EPO ; JPO)	OR	OFF	OFF	2016/08/18 08:08 AM
L67	252	L66 not L64	(US-PGPUB ; USPAT ; EPO ; JPO)	OR	OFF	OFF	2016/08/18 08:08 AM
L68	17	11/392,348	(US-PGPUB ; USPAT)	OR	OFF	OFF	2016/08/18 08:08 AM
L77	400	A61B17/3205.cpc.	(US-PGPUB ; USPAT)	OR	OFF	OFF	2016/08/18 09:08 AM
L78	4	(skin AND console AND input$4 AND hand$7 AND fluid AND manifold AND source).clm.	(US-PGPUB ; USPAT ; USOCR ; FIT (CN , FR , WO) ; FPRS ; EPO)	OR	ON	ON	2021/02/27 08:02 PM
L79	89	(console WITH input$4) AND skin AND hand$7 AND (manifold WITH fluid)	(US-PGPUB ; USPAT ; USOCR ; FIT (CN , FR , WO) ; FPRS ; EPO)	OR	ON	ON	2021/02/27 08:02 PM
L80	1	09/271,012	(US-PGPUB ; USPAT ; USOCR ; FIT (CN , FR , WO) ; FPRS ; EPO)	OR	ON	ON	2021/02/27 08:02 PM
L81	59	("Re31887" | "4183470" | "5186625" | "5240842" | "5350299" | "5362494" | "5441174" | "5547376" | "5591184" | "5634791" | "5657760" | "5752829").pn. OR ("6264666").urpn. AND (PGPB | USPT | USOC).dbnm.	(US-PGPUB ; USPAT ; USOCR)	OR	ON	ON	2021/03/01 01:03 PM
L82	58	("2608032" | "2921585" | "3574239" | "3715838" | "4375740" | "4482322" | "4560373" | "4646480" | "4671867" | "4676749" | "4757814" | "4765099" | "5037431" | "5037432" | "5100412" | "5207234" | "5309683" | "5460604" | "5547376" | "5765759" | "5810587" | "5810842" | "6039745").pn. OR ("6277128").urpn. AND (PGPB | USPT | USOC).dbnm.	(US-PGPUB ; USPAT ; USOCR)	OR	ON	ON	2021/03/01 01:03 PM
L83	56	(console SAME (handle handpiece)) AND (dermabrasion skin) AND (manifold SAME fluid SAME console)	(US-PGPUB ; USPAT ; USOCR ; FIT (CN , FR , WO) ; FPRS ; EPO)	OR	ON	ON	2021/03/01 01:03 PM

L84	116	("6024733"|"6139553"|"20070088371"|"5800446"|"5810842"|"6039745"|"6042552"|"6183483"|"6238275"|"6241739"|"6423078"|"6471712"|"6527783"|"6673082"|"6869611"|"3574239"|"5100412"|"6695853"|"20020128663"|"20090192442"|"20100049177"|"3964212"|"4378804"|"6090085"|"6942649"|"7789886"|"4182329"|"6299620"|"6277128"|"20030060834"|"20040127914"|"20070208353"|"20090177171"|"20090222023"|"5122153"|"5882201"|"7318828"|"20060200172"|"6629983"|"2712823"|"20020107527"|"20110054490"|"4121388"|"4706676"|"4957747"|"5037432"|"5674235"|"6592595"|"6641591"|"6926681"|"7678120"|"2921585"|"20030212415"|"6019749"|"2608032"|"20050283176"|"20070005078"|"20100045427"|"4203431"|"4676749"|"5873881"|"6283978"|"6685853"|"7087063"|"7153311"|"7482314"|"7837695"|"20060200173"|"3476112"|"2867214"|"2701559"|"20060253125"|"3715838"|"4155721"|"4216233"|"4560373"|"4646482"|"4757814"|"5012797"|"5035089"|"5037431"|"5207234"|"5222956"|"6080166"|"6306119"|"6387103"|"7354423"|"7658742"|"4900316"|"6139554"|"20030097139"|"4917086"|"5759185"|"3085573"|"2881763"|"3214869"|"4646480"|"4754756"|"5612797"|"5971999"|"6080165"|"6136008"|"6149634"|"6162232"|"6500183"|"6582442"|"6911031").PN.	(US-PGPUB ; USPAT ; USOCR)	OR	ON	ON	2021/03/09 05:03 PM
L85	58	("2608032" | "2921585" | "3574239" | "3715838" | "4375740" | "4482322" | "4560373" | "4646480" | "4671867" | "4676749" | "4757814" | "4765099" | "5037431" | "5037432" | "5100412" | "5207234" | "5309683" | "5460604" | "5547376" | "5765759" | "5810587" | "5810842" | "6039745").pn. OR ("6277128").urpn. AND (PGPB | USPT | USOC).dbnm.	(US-PGPUB ; USPAT ; USOCR)	OR	ON	ON	2021/03/09 06:03 PM

L86	4	(console AND (skin dermis derma$7) AND input AND (handle handpiece) AND (fluid water) AND manifold AND source).clm.	(US-PGPUB ; USPAT ; USOCR ; FIT (CN , FR , WO) ; FPRS ; EPO)	OR	ON	ON	2021/03/09 06:03 PM

L87	368	("2608032" | "2631583" | "2701559" | "2712823" | "2867214" | "2881763" | "2921585" | "3085573" | "3214869" | "3476112" | "3574239" | "3715838" | "3865352" | "3948265" | "3964212" | "3977084" | "4121388" | "4155721" | "4170821" | "4182329" | "4203431" | "4216233" | "4299219" | "4378804" | "4560373" | "4646480" | "4646482" | "4655743" | "4676749" | "4706676" | "4754756" | "4757814" | "4764362" | "4795421" | "4875287" | "4886078" | "4887994" | "4900316" | "4917086" | "4925450" | "4957747" | "5006004" | "5006339" | "5012797" | "5035089" | "5037431" | "5037432" | "5100412" | "5100424" | "5119839" | "5122153" | "5207234" | "5222956" | "5242433" | "5254109" | "5368581" | "5391151" | "5417674" | "5419772" | "5460620" | "5470323" | "5484427" | "5562642" | "5611687" | "5674235" | "5676643" | "5676648" | "5683971" | "5697920" | "5707383" | "5713785" | "5735833" | "5759185" | "5779519" | "5800446" | "5807353" | "5810842" | "5813416" | "5817050" | "5846215" | "5848998" | "5861142" | "5873881" | "5879323" | "5882201" | "5885260" | "5908401" | "5919152" | "5954730" | "5971999" | "5980555" | "6019749" | "6024733" | "6027402" | "6039745" | "6042552" | "6080165" | "6080166" | "6090085" | "6120512" | "6129701" | "6136008" | "6139553" | "6139554" | "6142155" | "6149634" | "6159226" | "6162218" | "6162232" | "6183451" | "6183483" | "6193589" | "6231593" | "6235039" | "6238275" | "6241739" | "6264666" | "6277128" | "6283978" | "6299620" | "6306119" | "6306147" | "6322568" | "6368333" | "6387103" | "6409736" | "6410599" | "RE37796" | "6414032" | "6420431" | "6423078" | "6423750" | "6432113" | "6432114" | "6471712" | "6477410" | "6482212" | "6488646" | "6494856" | "6500183"	(US-PGPUB ; USPAT ; USOCR)	OR	ON	ON	2021/03/09 06:03 PM

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PE2E SEARCH - Search History (Interference)

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N69	0	(console and manifold and contain$4 and skin and liquid and (handpiece handle) and tip and (vacuum suction) and (conduit tube) and treat$4).clm.	(US-PGPUB ; USPAT)	OR	OFF	OFF	2016/08/18 08:08 AM
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N75	38	(manifold and (handpiece handle) and tip and (vacuum suction) and (conduit tub$4)).clm.	(US-PGPUB ; USPAT)	OR	OFF	OFF	2016/08/18 08:08 AM

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PTO/SB/08 Equivalent

INFORMATION DISCLOSURE STATEMENT BY APPLICANT	Application No.	16/517,268
	Filing Date	July 19, 2019
	First Named Inventor	Roger Ignon
	Art Unit	3771
(Multiple sheets used when necessary)	Examiner	Christian D. Knauss
SHEET 1 OF 19	Attorney Docket No.	EDGE.005C7

U.S. PATENT DOCUMENTS					
Examiner Initials	Cite No.	Document Number *Number - Kind Code (if known)* Example: 1,234,567 B1	Publication Date MM-DD-YYYY	Name of Patentee or Applicant	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear
	1	1,651,585	12-06-1927	Clair	
	2	2,608,032	08-26-1952	Garver	
	3	2,631,583	03-17-1953	Lavergne	
	4	2,701,559	02-05-1955	Cooper	
	5	2,712,823	07-12-1955	Kurtin	
	6	2,867,214	01-06-1959	Wilson	
	7	2,881,763	04-14-1959	Robbins	
	8	2,921,585	01-19-1960	Schumann	
	9	3,037,509	06-05-1962	Schutz	
	10	3,085,573	04-16-1963	Meyer et al.	
	11	3,214,869	11-02-1965	Stryker	
	12	3,468,079	09-23-1969	Kaufman	
	13	3,476,112	11-04-1969	Elstein	
	14	3,481,677	12-02-1969	Abrahamson	
	15	3,505,993	04-14-1970	Lewes et al.	
	16	3,574,239	04-13-1971	Sollerud	
	17	3,715,838	02-13-1973	Young et al.	
	18	3,865,352	02-11-1975	Nelson et al.	
	19	3,866,264	02-18-1975	Engquist	
	20	3,948,265	04-06-1976	Al Ani	
	21	3,964,212	06-22-1976	Karden	
	22	3,968,789	07-13-1976	Simoncini	
	23	3,977,084	08-31-1976	Sloan	
	24	4,121,388	10-24-1978	Wilson	
	25	4,155,721	05-22-1979	Fletcher	
	26	4,170,821	10-16-1979	Booth	
	27	4,182,329	01-08-1980	Smit et al.	

Examiner Signature	Date Considered
***Examiner:** Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

T[1] - Place a check mark in this area when an English language Translation is attached.

PTO/SB/08 Equivalent

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	First Named Inventor	Roger Ignon
	Art Unit	3771
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SHEET 2 OF 19	Attorney Docket No.	EDGE.005C7

U.S. PATENT DOCUMENTS					
Examiner Initials	Cite No.	Document Number *Number - Kind Code (if known)* Example: 1,234,567 B1	Publication Date MM-DD-YYYY	Name of Patentee or Applicant	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear
	28	4,203,431	05-20-1980	Abura et al.	
	29	4,216,233	08-05-1980	Stein	
	30	4,225,254	09-30-1980	Holberg et al.	
	31	4,289,158	09-15-1981	Nehring	
	32	4,299,219	11-10-1981	Norris, Jr.	
	33	4,378,804	04-05-1983	Cortese	
	34	4,560,373	12-24-1985	Sugino et al.	
	35	4,646,480	03-03-1987	Williams	
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	37	4,655,743	04-07-1987	Hyde	
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	39	4,706,676	11-17-1987	Peck	
	40	4,718,467	01-12-1988	Di Gianfilippo et al.	
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	45	4,811,734	03-14-1989	McGurk-Burleson et al	
	46	4,836,192	06-06-1989	Abbate	
	47	4,875,287	10-24-1989	Creasy et al.	
	48	4,886,078	12-12-1989	Shiffman	
	49	4,887,994	12-12-1989	Bedford	
	50	4,900,316	02-13-1990	Yamamoto	
	51	4,917,086	04-17-1990	Feltovich et al.	
	52	4,925,450	05-15-1990	Imonti et al.	
	53	4,940,350	07-10-1990	Kim	
	54	4,957,747	09-18-1990	Stiefel	

Examiner Signature	Date Considered
***Examiner:** Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

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	Filing Date	July 19, 2019
	First Named Inventor	Roger Ignon
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SHEET 3 OF 19	Attorney Docket No.	EDGE.005C7

U.S. PATENT DOCUMENTS					
Examiner Initials	Cite No.	Document Number *Number - Kind Code (if known)* Example: 1,234,567 B1	Publication Date MM-DD-YYYY	Name of Patentee or Applicant	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear
	55	5,006,004	04-09-1991	Dirksing et al.	
	56	5,006,339	04-09-1991	Bargery et al.	
	57	5,012,797	05-07-1991	Liang et al.	
	58	5,035,089	07-30-1991	Tillman et al.	
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	62	5,100,412	03-31-1992	Rosso	
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	64	5,119,839	06-09-1992	Rudolph	
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	71	5,254,109	10-19-1993	Smith et al.	
	72	5,368,581	11-29-1994	Smith et al.	
	73	5,387,215	02-07-1995	Fisher	
	74	5,391,151	02-21-1995	Wilmot	
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	76	5,419,772	05-30-1995	Teitz et al.	
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	80	5,484,427	01-16-1996	Gibbons	
	81	5,490,736	02-13-1996	Haber et al.	

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	Filing Date	July 19, 2019
	First Named Inventor	Roger Ignon
	Art Unit	3771
(Multiple sheets used when necessary)	Examiner	Christian D. Knauss
SHEET 4 OF 19	Attorney Docket No.	EDGE.005C7

U.S. PATENT DOCUMENTS					
Examiner Initials	Cite No.	Document Number *Number - Kind Code (if known)* Example: 1,234,567 B1	Publication Date MM-DD-YYYY	Name of Patentee or Applicant	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear
	82	5,512,044	04-30-1996	Duer	
	83	5,562,642	10-08-1996	Smith et al.	
	84	5,562,643	10-08-1996	Johnson	
	85	5,611,687	03-18-1997	Wagner	
	86	5,612,797	03-18-1997	Clarke	
	87	5,674,235	10-07-1997	Parisi	
	88	5,676,643	10-14-1997	Cann et al.	
	89	5,676,648	10-14-1997	Henley	
	90	5,683,971	11-04-1997	Rose et al.	
	91	5,697,920	12-16-1997	Gibbons	
	92	5,707,383	01-13-1998	Bays	
	93	5,713,785	02-03-1998	Nishio	
	94	5,735,833	04-07-1998	Olson	
	95	5,759,185	06-02-1998	Grinberg	
	96	5,762,640	06-09-1998	Kajiwara et al.	
	97	5,779,519	07-14-1998	Oliver	
	98	5,800,446	09-01-1998	Banuchi	
	99	5,807,353	09-15-1998	Schmitz	
	100	5,810,842	09-22-1998	Di Fiore at al.	
	101	5,813,416	09-29-1998	Rudolph	
	102	5,817,050	10-06-1998	Klein	
	103	5,834,510	11-10-1998	Yu et al.	
	104	5,846,215	12-08-1998	Zygmont	
	105	5,848,998	12-15-1998	Marasco, Jr.	
	106	5,857,995	01-12-1999	Thomas et al.	
	107	5,861,142	01-19-1999	Schick	
	108	5,873,881	02-23-1999	McEwen et al.	

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	Filing Date	July 19, 2019
	First Named Inventor	Roger Ignon
	Art Unit	3771
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U.S. PATENT DOCUMENTS					
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	109	5,879,323	03-09-1999	Henley	
	110	5,882,201	03-16-1999	Salem	
	111	5,885,260	03-23-1999	Mehl, Sr., et al.	
	112	5,908,401	06-01-1999	Henley	
	113	5,919,152	07-06-1999	Zygmont	
	114	5,954,730	09-21-1999	Bernabei	
	115	5,971,999	10-26-1999	Naldoni	
	116	5,980,555	11-09-1999	Barbut et al.	
	117	6,019,749	02-01-2000	Fields et al.	
	118	6,024,733	02-15-2000	Eggers et al.	
	119	6,027,402	02-22-2000	Oliver	
	120	6,039,745	03-21-2000	Di Fiore et al.	
	121	6,042,552	03-28-2000	Cornier	
	122	6,080,165	06-27-2000	DeJacma	
	123	6,080,166	06-27-2000	McEwen et al.	
	124	6,090,085	07-18-2000	Mehl, Sr. Et al.	
	125	6,120,512	09-19-2000	Bernabei	
	126	6,023,639	02-08-2000	Hakky et al.	
	127	6,129,701	10-10-2000	Cimino	
	128	6,136,008	10-24-2000	Becker et al.	
	129	6,139,553	10-31-2000	Dotan	
	130	6,139,554	10-31-2000	Karkar et al.	
	131	6,142,155	11-07-2000	Rudolph	
	132	6,149,634	11-21-2000	Bernabei	
	133	6,159,226	12-12-2000	Kim	
	134	6,162,218	12-19-2000	Elbrecht et al.	
	135	6,162,232	12-19-2000	Shadduck	

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U.S. PATENT DOCUMENTS					
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	136	6,165,059	12-26-2000	Parkin et al.	
	137	6,183,451	02-06-2001	Mehl, Sr., et al.	
	138	6,183,483	02-06-2001	Chang	
	139	6,193,589	02-27-2001	Khalaj	
	140	6,196,982	03-06-2001	Ball	
	141	6,231,593	05-15-2001	Meserol	
	142	6,235,039	05-22-2001	Parkin et al.	
	143	6,238,275	05-29-2001	Metcalf et al.	
	144	6,241,739	06-05-2001	Waldron	
	145	6,264,666	07-24-2001	Coleman et al.	
	146	6,277,128	08-21-2001	Muldner	
	147	6,283,978	09-04-2001	Cheski et al.	
	148	6,299,620	10-09-2001	Shadduck	
	149	6,306,119	10-23-2001	Weber et al.	
	150	6,306,147	10-23-2001	Bernabei et al.	
	151	6,322,548	11-27-2001	Payne et al.	
	152	6,322,568	11-27-2001	Bernabei et al.	
	153	6,332,886	12-25-2001	Green et al.	
	154	6,368,333	04-09-2002	Bernabei et al.	
	155	6,387,103	05-14-2002	Shadduck	
	156	6,401,289	06-11-2002	Herbert	
	157	6,409,736	06-25-2002	Bernabei	
	158	6,410,599	06-25-2002	Johnson	
	159	6,414,032	07-02-2002	Johnson	
	160	6,420,431	07-16-2002	Johnson	
	161	6,423,078	07-23-2002	Bays et al.	
	162	6,423,750	07-23-2002	Johnson	

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	163	RE 37,796	07-23-2002	Henley	
	164	6,432,113	08-13-2002	Parkin et al.	
	165	6,432,114	08-13-2002	Rosso	
	166	6,471,712	10-29-2002	Burres	
	167	6,477,410	11-05-2002	Henley et al.	
	168	6,482,212	11-19-2002	Bernabei et al.	
	169	6,488,646	12-03-2002	Zygmont	
	170	6,494,856	12-17-2002	Zygmont	
	171	6,500,183	12-31-2002	Waldron	
	172	6,503,256	01-07-2003	Parkin et al.	
	173	6,511,486	01-28-2003	Mercier et al.	
	174	6,514,262	02-04-2003	Di Fiore, et al.	
	175	6,527,783	03-04-2003	Ignon	
	176	6,535,761	03-18-2003	Bernabei	
	177	6,540,757	04-01-2003	Hruska et al.	
	178	6,562,013	05-13-2003	Marasco, Jr.	
	179	6,562,050	05-13-2003	Owen	
	180	6,564,093	05-13-2003	Ostrow et al.	
	181	6,565,535	05-20-2003	Zaias et al.	
	182	6,582,442	06-24-2003	Simon et al.	
	183	6,589,218	07-08-2003	Garcia	
	184	6,592,595	07-15-2003	Mallett et al.	
	185	6,629,983	10-07-2003	Ignon	
	186	6,641,591	11-04-2003	Shadduck	
	187	6,645,184	11-11-2003	Zelickson et al.	
	188	6,652,888	11-25-2003	Rhoades	
	189	6,666,874	12-23-2003	Heitzmann et al.	

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	190	6,673,081	01-06-2004	Tavger et al.	
	191	6,673,082	01-06-2004	Mallett et al.	
	192	6,685,853	02-03-2004	Angelopoulous et al.	
	193	6,687,537	02-03-2004	Bernabei	
	194	6,695,853	02-24-2004	Karasiuk	
	195	6,735,470	05-11-2004	Henley et al.	
	196	6,743,211	06-01-2004	Prausnitz et al.	
	197	6,743,215	06-01-2004	Bernabei	
	198	6,764,493	07-20-2004	Weber et al.	
	199	6,800,083	10-05-2004	Hiblar et al.	
	200	6,869,611	03-22-2005	Kligman et al.	
	201	6,905,487	06-14-2005	Zimmerman	
	202	6,911,031	06-28-2005	Muldner	
	203	6,926,681	08-09-2005	Ramey, et al.	
	204	6,942,649	09-13-2005	Ignon et al.	
	205	6,960,206	11-01-2005	Keane	
	206	7,001,355	02-21-2006	Nunomura et al.	
	207	7,004,933	02-28-2006	McDaniel	
	208	7,044,938	05-16-2006	La Bianco et al.	
	209	7,052,503	05-30-2006	Bernabei	
	210	7,069,073	06-27-2006	Henley et al.	
	211	7,070,488	07-04-2006	Suissa et al.	
	212	7,083,580	08-01-2006	Bernabei	
	213	7,087,063	08-08-2006	Carson et al.	
	214	7,094,252	08-22-2006	Koop	
	215	7,115,275	10-03-2006	Clarot et al.	
	216	7,135,011	11-14-2006	Powers et al.	

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	217	7,153,311	12-26-2006	Chung	
	218	7,197,359	03-27-2007	Tokudome et al.	
	219	7,198,623	04-03-2007	Fischer et al.	
	220	7,232,444	06-19-2007	Chang	
	221	7,241,208	07-10-2007	Suissa et al.	
	222	7,276,051	10-02-2007	Henley et al.	
	223	7,293,930	11-13-2007	Chuang	
	224	7,314,326	01-01-2008	Rosenberg	
	225	7,316,657	01-08-2008	Kleinhenz et al.	
	226	7,318,828	01-15-2008	Revivo	
	227	7,320,691	01-22-2008	Pilcher et al.	
	228	7,320,801	01-22-2008	Kelly	
	229	7,354,423	04-08-2008	Zelickson et al.	
	230	7,364,565	04-29-2008	Freeman	
	231	7,384,405	06-10-2008	Rhoades	
	232	7,427,273	09-23-2008	Mitsui	
	233	7,458,944	12-02-2008	Liste et al.	
	234	7,476,205	01-13-2009	Erdmann	
	235	7,477,938	01-13-2009	Sun et al.	
	236	7,482,314	01-27-2009	Grimes et al.	
	237	7,485,125	02-03-2009	Sjostrom	
	238	7,489,989	02-10-2009	Sukhanov et al.	
	239	7,507,228	03-24-2009	Sun et al.	
	240	7,582,067	09-01-2009	Van Acker	
	241	7,597,900	10-06-2009	Zimmer et al.	
	242	7,597,901	10-06-2009	Clarot et al.	
	243	7,658,742	02-09-2010	Karasiuk	

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	244	7,678,120	03-16-2010	Shadduck	
	245	7,744,582	06-29-2010	Sadowski et al.	
	246	7,789,886	09-07-2010	Shadduck	
	247	7,837,695	11-23-2010	Hart et al.	
	248	7,901,373	03-08-2011	Tavger	
	249	7,951,156	05-31-2011	Karasiuk	
	250	7,993,333	08-09-2011	Oral et al.	
	251	8,025,669	09-27-2011	David et al.	
	252	8,048,089	11-01-2011	Ignon et al.	
	253	RE 42,960	11-22-2011	Waldron	
	254	8,066,716	11-29-2011	Shadduck	
	255	8,088,085	01-03-2012	Thiebaut et al.	
	256	8,105,295	01-31-2012	Blott et al.	
	257	8,128,638	03-06-2012	Karasiuk et al.	
	258	8,221,437	07-17-2012	Waldron et al.	
	259	8,236,008	08-07-2012	Boone, III et al.	
	260	8,277,287	10-02-2012	Hart	
	261	8,337,513	12-25-2012	Shadduck	
	262	8,343,116	01-01-2013	Ignon et al.	
	263	8,814,836	08-26-2014	Ignon et al.	
	264	9,056,193	06-16-2015	Ignon et al.	
	265	9,468,464	10-18-2016	Shadduck	
	266	9,474,886	10-25-2016	Ignon et al.	
	267	9,486,615	11-08-2016	Ignon et al.	
	268	9,498,610	11-22-2016	Ignon et al.	
	269	9,550,052	01-24-2017	Ignon et al.	
	270	9,566,088	02-14-2017	Ignon et al.	

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	271	9,642,997	05-09-2017	Ignon et al.	
	272	9,662,482	05-30-2017	Ignon et al.	
	273	9,775,646	10-03-2017	Shadduck	
	274	9,814,868	11-14-2017	Ignon et al.	
	275	10,035,007	07-31-2018	Ignon et al.	
	276	10,172,644	01-08-2019	Ignon et al.	
	277	10,179,229	01-15-2019	Ignon et al.	
	278	10,238,812	03-26-2019	Ignon	
	279	10,251,675	04-09-2019	Ignon et al.	
	280	10,357,641	07-23-2019	Ignon et al.	
	281	10,357,642	07-23-2019	Ignon et al.	
	282	10,556,096	02-11-2020	Ignon et al.	
	283	10,556,097	02-11-2020	Ignon et al.	
	284	2001/0023351	09-20-2001	Eilers	
	285	2001/0037118	11-01-2001	Shadduck	
	286	2001/0049511	12-06-2001	Coleman et al.	
	287	2002/0016601	02-07-2002	Shadduck	
	288	2002/0041891	04-11-2002	Cheski	
	289	2002/0058952	05-16-2002	Weber et al.	
	290	2002/0107527	08-08-2002	Burres	
	291	2002/0128663	09-12-2002	Mercier et al.	
	292	2002/0133110	09-19-2002	Citow	
	293	2002/0133176	09-19-2002	Parkin et al.	
	294	2002/0151826	10-17-2002	Ramey et al	
	295	2002/0151908	10-17-2002	Mallett Sr. et al.	
	296	2002/0162863	11-07-2002	Brincat	
	297	2002/0188261	12-12-2002	Hruska	

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	298	2003/0012415	01-16-2003	Cossel	
	299	2003/0018252	01-23-2003	Duchon et al.	
	300	2003/0060834	03-27-2003	Muldner	
	301	2003/0093040	05-15-2003	Mikszta et al.	
	302	2003/0093089	05-15-2003	Greenberg	
	303	2003/0097139	05-22-2003	Karasiuk	
	304	2003/0167032	09-04-2003	Ignon	
	305	2003/0187462	10-14-2003	Chang	
	306	2003/0208159	11-06-2003	Ignon, et al.	
	307	2003/0212127	11-13-2003	Glassman et al.	
	308	2003/0212415	11-13-2003	Karasiuk	
	309	2004/0010222	01-15-2004	Nunomura et al.	
	310	2004/0010269	01-15-2004	Grimes et al.	
	311	2004/0015139	01-22-2004	La Bianco	
	312	2004/0087972	05-06-2004	Mulholland, et al.	
	313	2004/0092895	05-13-2004	Harmon	
	314	2004/0092959	05-13-2004	Bernaz	
	315	2004/0097967	05-20-2004	Ignon	
	316	2004/0122447	06-24-2004	Harmon et al.	
	317	2004/0127914	07-01-2004	Chung	
	318	2004/0143274	07-22-2004	Shadduck	
	319	2004/0162565	08-19-2004	Carson et al.	
	320	2004/0166172	08-26-2004	Rosati et al.	
	321	2004/0219179	11-04-2004	McDaniel	
	322	2004/0236291	11-25-2004	Zelickson et al.	
	323	2004/0243149	12-02-2004	Lee, John B. JR.	
	324	2004/0254587	12-16-2004	Park	

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	325	2004/0267285	12-30-2004	Chang	
	326	2005/0037034	02-17-2005	Rhoades	
	327	2005/0038448	02-17-2005	Chung	
	328	2005/0059940	03-17-2005	Weber et al.	
	329	2005/0084509	04-21-2005	Bernstein	
	330	2005/0148958	07-07-2005	Rucinski	
	331	2005/0203111	09-15-2005	David	
	332	2005/0209611	09-22-2005	Greenberg	
	333	2005/0283176	12-22-2005	Law	
	334	2006/0002960	01-05-2006	Zoeteweij et al.	
	335	2006/0116674	06-01-2006	Goble et al.	
	336	2006/0161178	07-20-2006	Lee	
	337	2006/0189964	08-24-2006	Anderson	
	338	2006/0191562	08-31-2006	Numomura	
	339	2006/0200099	09-07-2006	La Bianco et al.	
	340	2006/0200172	09-07-2006	Shadduck	
	341	2006/0200173	09-07-2006	Shadduck	
	342	2006/0212029	09-21-2006	Villacampa et al.	
	343	2006/0222445	10-05-2006	Chuang	
	344	2006/0253125	11-09-2006	Ignon	
	345	2006/0264893	11-23-2006	Sage, Jr. et al.	
	346	2006/0269580	11-30-2006	Cole et al.	
	347	2007/0005078	01-04-2007	Hart et al.	
	348	2007/0043382	02-22-2007	Cheney	
	349	2007/0065515	03-22-2007	Key	
	350	2007/0088371	04-19-2007	Karasiuk	
	351	2007/0123808	05-31-2007	Rhoades	

Examiner Signature	Date Considered
***Examiner:** Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

T[1] - Place a check mark in this area when an English language Translation is attached.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT	Application No.	16/517,268
	Filing Date	July 19, 2019
	First Named Inventor	Roger Ignon
	Art Unit	3771
(Multiple sheets used when necessary)	Examiner	Christian D. Knauss
SHEET 14 OF 19	Attorney Docket No.	EDGE.005C7

U.S. PATENT DOCUMENTS					
Examiner Initials	Cite No.	Document Number *Number - Kind Code (if known)* Example: 1,234,567 B1	Publication Date MM-DD-YYYY	Name of Patentee or Applicant	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear
	352	2007/0154502	07-05-2007	Hattendorf et al.	
	353	2007/0156124	07-05-2007	Ignon et al.	
	354	2007/0178121	08-02-2007	First et al.	
	355	2007/0198031	08-23-2007	Kellogg	
	356	2007/0208353	09-06-2007	Shadduck	
	357	2007/0239173	10-11-2007	Khalaj	
	358	2008/0027328	01-31-2008	Klopotek et al.	
	359	2008/0091179	04-17-2008	Durkin et al.	
	360	2008/0103563	05-01-2008	Powell	
	361	2008/0119781	05-22-2008	King	
	362	2008/0132914	06-05-2008	Bossard et al.	
	363	2008/0139974	06-12-2008	Da Silva	
	364	2008/0154161	06-26-2008	Abbott	
	365	2008/0193493	08-14-2008	Rhoades	
	366	2008/0200861	08-21-2008	Shalev et al.	
	367	2008/0208146	08-28-2008	Brandwein et al.	
	368	2008/0214987	09-04-2008	Xu	
	369	2008/0215068	09-04-2008	Hart et al.	
	370	2008/0221548	09-11-2008	Danenberg et al.	
	371	2008/0243039	10-02-2008	Rhoades	
	372	2008/0287864	11-20-2008	Rosenberg	
	373	2008/0300529	12-04-2008	Reinstein	
	374	2008/0300552	12-04-2008	Cichocki et al.	
	375	2009/0048557	02-19-2009	Yeshurun et al.	
	376	2009/0053390	02-26-2009	Sakou et al.	
	377	2009/0062815	03-05-2009	Karasiuk et al.	
	378	2009/0099091	04-16-2009	Hantash	

Examiner Signature	Date Considered
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT	Application No.	16/517,268
	Filing Date	July 19, 2019
	First Named Inventor	Roger Ignon
	Art Unit	3771
(Multiple sheets used when necessary)	Examiner	Christian D. Knauss
SHEET 15 OF 19	Attorney Docket No.	EDGE.005C7

U.S. PATENT DOCUMENTS					
Examiner Initials	Cite No.	Document Number *Number - Kind Code (if known)* Example: 1,234,567 B1	Publication Date MM-DD-YYYY	Name of Patentee or Applicant	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear
	379	2009/0099093	04-16-2009	Hantash	
	380	2009/0124985	05-14-2009	Hasenoehrl et al.	
	381	2009/0138026	05-28-2009	Wu	
	382	2009/0177171	07-09-2009	Ignon et al.	
	383	2009/0192442	07-30-2009	Ignon et al.	
	384	2009/0222023	09-03-2009	Boone, III et al.	
	385	2010/0023003	01-28-2010	Mulholland	
	386	2010/0045427	02-25-2010	Boone, III et al.	
	387	2010/0049177	02-25-2010	Boone, III et al.	
	388	2010/0049210	02-25-2010	Boone, III et al.	
	389	2010/0217357	08-26-2010	Da Silva	
	390	2010/0305495	12-02-2010	Anderson et al.	
	391	2011/0054490	03-03-2011	Hart	
	392	2011/0066162	03-17-2011	Cohen	
	393	2011/0082415	04-07-2011	Ignon et al.	
	394	2012/0022435	01-26-2012	Ignon et al.	
	395	2012/0041338	02-16-2012	Chickering III et al.	
	396	2012/0136374	05-31-2012	Karasiuk	
	397	2013/0004230	01-03-2013	Kirk, III et al.	
	398	2013/0018317	01-17-2013	Bobroff et al.	
	399	2013/0066336	03-14-2013	Boone, III et al.	
	400	2013/0096577	04-18-2013	Shadduck	
	401	2013/0102978	04-25-2013	Ignon et al.	
	402	2013/0144280	06-06-2013	Eckhouse et al.	
	403	2013/0158547	06-20-2013	David	
	404	2014/0343574	11-20-2014	Ignon et al.	
	405	2015/0032047	01-29-2015	Ignon et al.	

Examiner Signature	Date Considered
***Examiner:** Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

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PTO/SB/08 Equivalent

INFORMATION DISCLOSURE STATEMENT BY APPLICANT	Application No.	16/517,268
	Filing Date	July 19, 2019
	First Named Inventor	Roger Ignon
	Art Unit	3771
(Multiple sheets used when necessary)	Examiner	Christian D. Knauss
SHEET 16 OF 19	Attorney Docket No.	EDGE.005C7

U.S. PATENT DOCUMENTS					
Examiner Initials	Cite No.	Document Number *Number - Kind Code (if known)* Example: 1,234,567 B1	Publication Date MM-DD-YYYY	Name of Patentee or Applicant	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear
	406	2015/0230824	08-20-2015	Shadduck	
	407	2015/0230825	08-20-2015	Shadduck	
	408	2015/0231379	08-20-2015	Ignon et al.	
	409	2015/0265822	09-24-2015	Ignon et al.	
	410	2015/0272623	10-01-2015	Ignon et al.	
	411	2015/0290442	10-15-2015	Ignon et al.	
	412	2017/0036002	02-09-2017	Ignon et al.	
	413	2017/0065801	03-09-2017	Ignon et al.	
	414	2017/0209894	07-27-2017	Sporrer	
	415	2018/0318568	11-08-2018	Ignon et al.	
	416	2019/0133642	05-09-2019	Ignon et al.	
	417	2019/0143089	05-16-2019	Ignon et al.	
	418	2019/0223914	07-25-2019	Ignon et al.	
	419	2020/0016342	01-16-2020	Ignon	
	420	2020/0171288	06-04-2020	Ignon et al.	
	421	2020/0171289	06-04-2020	Ignon et al.	

FOREIGN PATENT DOCUMENTS						
Examiner Initials	Cite No.	Foreign Patent Document *Country Code-Number-Kind Code* Example: JP 1234567 A1	Publication Date MM-DD-YYYY	Name of Patentee or Applicant	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear	T[1]
	422	AT 400 305	12-27-1995	Devida Ges MBH		
	423	AU 1 014 299	05-31-1999	Greenberg		
	424	CA 2 340 154	09-09-2002	Hoffman et al.		
	425	DD 234 608	04-09-1986	Rath		
	426	DE 59 95 21	07-04-1934	Strickler et al.		
	427	DE 24 15 633	10-16-1975	Nubert Geb KG		X Abstract
	428	DE 33 38 057	08-09-1984	Krueger-Beuster		X Abstract

Examiner Signature	Date Considered
***Examiner:** Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT	Application No.	16/517,268
	Filing Date	July 19, 2019
	First Named Inventor	Roger Ignon
	Art Unit	3771
(Multiple sheets used when necessary)	Examiner	Christian D. Knauss
SHEET 17 OF 19	Attorney Docket No.	EDGE.005C7

FOREIGN PATENT DOCUMENTS						
Examiner Initials	Cite No.	Foreign Patent Document *Country Code-Number-Kind Code* Example: JP 1234567 A1	Publication Date MM-DD-YYYY	Name of Patentee or Applicant	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear	T[1]
	429	DE 34 21 390	12-12-1985	Schubert		
	430	DE 35 03 343	08-14-1986	Frenkel		X Abstract
	431	DE 83 30 191	06-04-1987	Krueger-Beuster		
	432	DE 37 40 902	12-22-1988	Schlicksupp		X Abstract
	433	DE 42 37 940	05-19-1993	Berens et al.		X Abstract
	434	DE 298 08 395	08-27-1998	Ionto-Comed GmbH		
	435	DE 10 2004 015815	11-03-2005	Bundersrepublik Deutschland		
	436	EP 0 258 901	09-03-1987	Tonokura Ika Kogyo Co. LTD		
	437	EP 0 564 392	03-03-1993	Fructuoso Martinez		
	438	EP 0 784 997	07-23-1997	Koblinger Gerald Ing		X Abstract
	439	EP 2 106 780	03-09-2016	Pomar		
	440	ES 1 037 776	04-01-1998	Concustell Gonfaus		X Abstract
	441	FR 2 712 172	05-19-1995	Rabier		X Abstract
	442	FR 2 773 461	07-16-1999	Favie Alain		X Abstract
	443	GB 1 372 609	10-30-1974	Forenade Fabrik-Sverken		
	444	GB 2306351	05-07-1997	Inahara		
	445	IT 553 076	12-01-1956	Facconi		
	446	IT 118 49 22	03-22-1985	Porqueddu		
	447	JP H05-042060	02-23-1993	Hara		X
	448	JP1993-088552	12-03-1993	Sumitomo Bakelite Co., Ltd.		

Examiner Signature	Date Considered
***Examiner:** Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

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PTO/SB/08 Equivalent

INFORMATION DISCLOSURE STATEMENT BY APPLICANT	Application No.	16/517,268
	Filing Date	July 19, 2019
	First Named Inventor	Roger Ignon
	Art Unit	3771
(Multiple sheets used when necessary)	Examiner	Christian D. Knauss
SHEET 18 OF 19	Attorney Docket No.	EDGE.005C7

FOREIGN PATENT DOCUMENTS						
Examiner Initials	Cite No.	Foreign Patent Document *Country Code-Number-Kind Code* Example: JP 1234567 A1	Publication Date MM-DD-YYYY	Name of Patentee or Applicant	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear	T[1]
	449	JP 1997-294747	11-18-1997	Fukutaro, Yamazaki		
	450	JP2003-339713	12-02-2003	Twinbird Corp		
	451	JP2003-534881	11-25-2003	Becton, Dickinson and Company		X Abstract
	452	JP2004-275721	10-07-2004	Matsushita Electric Works		
	453	JP2006-503627 (English abstract of WO 2004/037098)	02-02-2006	Bionoface		
	454	JP2006-204767	10-08-2006	Matsushita Electric Works		
	455	KR 20-0280320 (with English machine translation obtained from Korean Intellectual Property Office website, http://eng.kipris.or.kr/enghome/main.jsp)	07-02-2002	Lee		
	456	KR 10-20070070173	07-03-2007	Dermanew Inc.		X Abstract
	457	WO 1994/024980	11-10-1994	D+P Cosmetics AG		
	458	WO 1997/011650	03-04-1997	Cawley		
	459	WO 2000/015300	03-23-2000	Ultra Cure Ltd		
	460	WO 2001/93931	12-13-2001	Becton, Dickinson and Company		
	461	WO 2003/073917	09-12-2003	Edge Systems		
	462	WO 2004/037098	05-06-2004	Bionoface		
	463	WO 2005/070313	08-04-2005	Crystal Clear International Limited		
	464	WO 2006/018731	02-23-2006	Mc Anton Holding SA		
	465	WO 2006/031413	03-23-2006	Dermanew Inc.		

Examiner Signature	Date Considered
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT	Application No.	16/517,268
	Filing Date	July 19, 2019
	First Named Inventor	Roger Ignon
	Art Unit	3771
(Multiple sheets used when necessary)	Examiner	Christian D. Knauss
SHEET 19 OF 19	Attorney Docket No.	EDGE.005C7

FOREIGN PATENT DOCUMENTS						
Examiner Initials	Cite No.	Foreign Patent Document *Country Code-Number-Kind Code* Example: JP 1234567 A1	Publication Date MM-DD-YYYY	Name of Patentee or Applicant	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear	T[1]
	466	WO 2007/114904	10-11-2007	Amcol International Corporation		
	467	WO 2009/088884	07-16-2009	Edge Systems Corporation		
	468	WO 2009/097451	08-06-2009	Edge Systems Corporation		
	469	WO 2012/145667	10-26-2012	Sun-Less, Inc.		
	470	WO 2014/151104	09-25-2014	Edge Systems LLC		
	471	WO 2016/106396	06-30-2016	Edge Systems LLC		
	472	WO 2017/007939	01-12-2017	Edge Systems LLC		

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T[1]
	473	Cox III et al., Decreased Splatter in Dermabrasion, Arch Facial Plastic Surgery, Jan-Mar 2000, Vol. 2, pp. 23-26	
	474	Ditre et al., Effect of α-hydroxy acids on photoaged skin: A pilot clinical, histologic, and ultrastructural study, Journal of American Academy of Dermatology, February 1996, Vol. 34, No. 2, Part 1, pp.187-195.	
	475	Harris et al., Combining Manual Dermasanding with Low Strength Trichloroacetic Acid to Improve Antinically Injured Skin, The Journal of Dermatologic Surgery and Oncology, July 1994, Vol. 20, No. 7, pp. 436-442.	
	476	Microdermabrader Pepita Instruction Manual, Mattioli Engineering S.R.L., PEP_USA2.doc Rev 1.1, 09-29-1997	

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Examiner Signature	Date Considered
***Examiner:** Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

T[1] - Place a check mark in this area when an English language Translation is attached.

Electronic Acknowledgement Receipt

EFS ID:	42235306
Application Number:	16517268
International Application Number:	
Confirmation Number:	9432
Title of Invention:	DEVICES AND METHODS FOR TREATING SKIN
First Named Inventor/Applicant Name:	Roger Ignon
Customer Number:	20995
Filer:	Theodore G. Papagiannis/Jennifer Neat
Filer Authorized By:	Theodore G. Papagiannis
Attorney Docket Number:	EDGE.005C7
Receipt Date:	19-MAR-2021
Filing Date:	19-JUL-2019
Time Stamp:	20:50:05
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Power of Attorney	EDGE005C7_POA.pdf	260623 f78629b8e1539895e25551af83e045e2a81c8caf	no	2

Warnings:

Information:					
2		EDGE005C7_IDS.pdf	196995 17e04d8fd08efaae4687ec8909d2454b8d8e18f1	yes	23
	Multipart Description/PDF files in .zip description				
	Document Description		Start	End	
	Transmittal Letter		1	4	
	Information Disclosure Statement (IDS) Form (SB08)		5	23	
Warnings:					
Information:					
		Total Files Size (in bytes):	457618		

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New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

Doc Code: PA..
Document Description: Power of Attorney

PTO/AIA/82A (07-13)
Approved for use through 03/31/2021. OMB 0651-0035
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NOTE: This form is to be submitted with the Power of Attorney by Applicant form (PTO/AIA/82B) to identify the application to which the Power of Attorney is directed, in accordance with 37 CFR 1.5, unless the application number and filing date are identified in the Power of Attorney by Applicant form. If neither form PTO/AIA/82A nor form PTO/AIA82B identifies the application to which the Power of Attorney is directed, the Power of Attorney will not be recognized in the application.

Application Number	16/517,268
Filing Date	July 19, 2019
First Named Inventor	Roger Ignon
Title	DEVICES AND METHODS FOR TREATING SKIN
Art Unit	Unassigned
Examiner Name	Unassigned
Attorney Docket Number	EDGE.005C7

SIGNATURE of Applicant or Patent Practitioner

Signature	/Theodore G. Papagiannis/	Date (Optional)	
Name	Theodore G. Papagiannis	Registration Number	61,546
Title (if Applicant is a juristic entity)			
Applicant Name (if Applicant is a juristic entity)			

NOTE: This form must be signed in accordance with 37 CFR 1.33. See 37 CFR 1.4(d) for signature requirements and certifications. If more than one applicant, use multiple forms.

☑ *Total of 1 forms are submitted.

This collection of information is required by 37 CFR 1.131, 1.32, and 1.33. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 3 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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Document Description: Power of Attorney

PTO/AIA/82B (07-13)
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POWER OF ATTORNEY BY APPLICANT

I hereby revoke all previous powers of attorney given in the application identified in either the attached transmittal letter or the boxes below.

Application Number	Filing Date

(Note: The boxes above may be left blank if information is provided on form PTO/AIA/82A.)

☑ I hereby appoint the Patent Practitioner(s) associated with the following Customer Number as my/our attorney(s) or agent(s), and to transact all business in the United States Patent and Trademark Office connected therewith for the application referenced in the attached transmittal letter (form PTO/AIA/82A) or identified above: 20995

OR

☐ I hereby appoint Practitioner(s) named in the attached list (form PTO/AIA/82C) as my/our attorney(s) or agent(s), and to transact all business in the United States Patent and Trademark Office connected therewith for the patent application referenced in the attached transmittal letter (form PTO/AIA/82A) or identified above. (Note: Complete form PTO/AIA/82C.)

Please recognize or change the correspondence address for the application identified in the attached transmittal letter or the boxes above to:

☑ The address associated with the above-mentioned Customer Number

OR

☐ The address associated with Customer Number:

OR

Firm or Individual Name					
Address					
City		State		Zip	
Country					
Telephone		Email			

I am the Applicant (if the Applicant is a juristic entity, list the Applicant name in the box):

Edge Systems LLC

☐ Inventor or Joint Inventor (title not required below)

☐ Legal Representative of a Deceased or Legally Incapacitated Inventor (title not required below)

☑ Assignee or Person to Whom the Inventor is Under an Obligation to Assign (provide signer's title if applicant is a juristic entity)

☐ Person Who Otherwise Shows Sufficient Proprietary Interest (e.g., a petition under 37 CFR 1.46(b)(2) was granted in the application or is concurrently being filed with this document) (provide signer's title if applicant is a juristic entity)

SIGNATURE of Applicant for Patent

The undersigned (whose title is supplied below) is authorized to act on behalf of the applicant (e.g., where the applicant is a juristic entity).

Signature	William Cohen	Date (Optional)	4.6.16
Name	William Cohen		
Title	President		

NOTE: Signature - This form must be signed by the applicant in accordance with 37 CFR 1.33. See 37 CFR 1.4 for signature requirements and certifications. If more than one applicant, use multiple forms.

☑ Total of 1 forms are submitted.

This collection of information is required by 37 CFR 1.131, 1.32, and 1.33. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 3 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

INFORMATION DISCLOSURE STATEMENT

Inventor	:	Ignon et al.
Appl. No.	:	16/517,268
Filed	:	July 19, 2019
For	:	DEVICES AND METHODS FOR TREATING SKIN
Examiner	:	Christian D. Knauss
Art Unit	:	3771
Conf. No.	:	9432

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Background

Note that Applicant submitted an Information Disclosure Statement ("IDS") on March 18, 2021 for the subject application. In the transmittal of that IDS, Applicant inadvertently indicated that the present application claims the priority benefit of U.S. Pat. Appl. No. 15/660,777. However, the present application is a continuation of another application in the patent family, i.e., U.S. Pat. Appl. No. 15/660,750. Accordingly, Applicant is filing the present IDS to correct this oversight.

References and Listing

Pursuant to 37 CFR 1.56, an IDS listing references is provided herewith. References numbered 1 to 102, 104 to 277, 281, 284 to 295, 297 to 345, 347 to 384, 386 to 415 and 422 to 476 are of record in U.S. patent application No. 15/660,750, filed July 26, 2017, which is relied upon for an earlier filing date under 35 USC 120. Accordingly, copies of any foreign or non-patent literature references cited in the parent application are not being submitted pursuant to 37 CFR 1.98(d). If the Examiner would like additional information regarding any references or if anything is unclear, the Examiner is invited to contact the undersigned for assistance. Identification herein is not an admission that any of the references are prior art to the above captioned application.

No Disclaimers

To the extent that anything in the IDS or the listed references could be construed as a disclaimer of any subject matter supported by the present application, Applicant hereby rescinds and retracts such disclaimer.

Co-Pending Applications of Assignee

Applicant wishes to draw the Examiner's attention to the following co-pending applications of the present application's assignee.

Attorney Docket No.	Country	App. No. (Pat. No., if appl.)	Filing Date	Title
EDGE.004A	US	09/648,025 (Pat. No. 6,641,591)	Aug. 25, 2000	INSTRUMENTS AND TECHNIQUES FOR CONTROLLED REMOVAL OF EPIDERMAL LAYERS
EDGE.004C1	US	10/699,747 (Pat. No. 7,789,886)	Nov. 3, 2003	INSTRUMENTS AND TECHNIQUES FOR CONTROLLED REMOVAL OF EPIDERMAL LAYERS
EDGE.004C1DV1	US	11/739,615 (Pat. No. 8,337,513)	Apr. 24, 2007	INSTRUMENTS AND TECHNIQUES FOR CONTROLLED REMOVAL OF EPIDERMAL LAYERS
EDGE.004C2	US	11/417,709 (Pat. No. 8,066,716)	May 3, 2006	INSTRUMENTS AND TECHNIQUES FOR CONTROLLED REMOVAL OF EPIDERMAL LAYERS
EDGE.004C3	US	11/417,396 (Pat. No. 7,678,120)	May 3, 2006	INSTRUMENTS AND TECHNIQUES FOR CONTROLLED REMOVAL OF EPIDERMAL LAYERS
EDGE.004C4	US	13/620,164	Sep. 14, 2012	INSTRUMENTS AND TECHNIQUES FOR CONTROLLED REMOVAL OF EPIDERMAL LAYERS
EDGE.004C5	US	14/702,509 (Pat. No. 9,775,646)	May 1, 2015	DEVICES AND SYSTEMS FOR TREATING THE SKIN USING VACUUM
EDGE.004C6	US	14/702,486 (Pat. No. 9,468,464)	May 1, 2015	METHODS FOR TREATING THE SKIN USING VACUUM
EDGE.004C7	US	15/953,337	Apr. 13, 2018	INSTRUMENTS AND TECHNIQUES FOR CONTROLLED REMOVAL OF EPIDERMAL LAYERS
EDGE.005A	US	11/392,348 (Pat. No. 8,048,089)	Mar. 29, 2006	APPARATUS AND METHODS FOR TREATING THE SKIN
EDGE.005C1	US	13/267,554 (Pat. No. 9,474,886)	Oct. 6, 2011	REMOVABLE TIPS FOR SKIN TREATMENT SYSTEMS
EDGE.005C2	US	14/698,673 (Pat No. 9,550,052)	Apr. 28, 2015	CONSOLE SYSTEM FOR THE TREATMENT OF SKIN
EDGE.005C3	US	14/698,713 (Pat. No. 9,662,482)	Apr. 28, 2015	METHODS AND SYSTEMS FOR EXTRACTION OF MATERIALS FROM SKIN
EDGE.005C4	US	14/700,789 (Pat. No. 9,814,868)	Apr. 30, 2015	TIP WITH EMBEDDED MATERIALS FOR SKIN TREATMENT
EDGE.005C5	US	15/660,750 (Pat. No. 10/357,641)	Jul. 26, 2017	TIPS FOR SKIN TREATMENT DEVICE
EDGE.005C6	US	15/660,777 (Pat. No. 10/357,642)	Jul. 26, 2017	REMOVABLE TIPS FOR USE WITH SKIN TREATMENT SYSTEMS

Attorney Docket No.	Country	App. No. (Pat. No., if appl.)	Filing Date	Title
EDGE.005C7	**US**	**16/517,268** ***(present application)***	**Jul. 19, 2019**	**DEVICES AND METHODS FOR TREATING SKIN**
EDGE.005C8	US	17/165,820	Feb. 2, 2021	DEVICES AND METHODS FOR TREATING SKIN
EDGE.005C9	US	17/165,807	Feb. 2, 2021	DEVICES AND METHODS FOR TREATING SKIN
EDGE.005DP1	US	29/679299	Feb. 4, 2019	SKIN TREATMENT SYSTEM
EDGE.005DP2	US	29/679306	Feb. 4, 2019	HANDPIECE ASSEMBLY TIP
EDGE.005DP3	US	29/679302	Feb. 4, 2019	HANDPIECE ASSEMBLY TIP
EDGE.006A	US	09/294,254 (Pat. No. 6,162,232)	Apr. 19, 1999	INSTRUMENTS AND TECHNIQUES FOR HIGH-VELOCITY FLUID ABRASION OF EPIDERMAL LAYERS WITH SKIN COOLING
EDGE.007A	US	09/475480 (Pat. No. 6,299,620)	Dec. 30, 1999	INSTRUMENTS AND TECHNIQUES FOR INDUCING NEOCOLLAGENESIS IN SKIN TREATMENTS
EDGE.008A	US	09/475479 (Pat. No. 6,387,103)	Dec. 30, 1999	INSTRUMENTS AND TECHNIQUES FOR INDUCING NEOCOLLAGENESIS IN SKIN TREATMENTS
EDGE.022A	US	11/370,200	Mar. 7, 2006	MICRODERMABRASION METHOD AND APPARATUS
EDGE.044A	US	12/362,353 (Pat. No. 9,056,193)	Jan. 29, 2009	APPARATUS AND METHOD FOR TREATING THE SKIN
EDGE.044C1	US	14/734,995	Jun. 9, 2015	DEVICES AND SYSTEMS FOR TREATING SKIN SURFACES
EDGE.044CP1	US	12/832,663 (Pat. No. 8,814,836)	Jul 8, 2010	DEVICES, SYSTEMS AND METHODS FOR TREATING THE SKIN USING TIME-RELEASE SUBSTANCES
EDGE.044P1C1	US	14/455,762 (Pat. No. 9,642,997)	Aug. 8, 2014	DEVICES FOR TREATING SKIN USING TREATMENT MATERIALS LOCATED ALONG A TIP
EDGE.044P1C2	US	15/588,102 (Pat. No. 10,556,097)	May 5, 2017	DEVICES FOR TREATING SKIN USING TREATMENT MATERIALS LOCATED ALONG A TIP
EDGE.044P1C3	US	16/784,850	Feb. 7, 2020	DEVICES AND METHODS FOR TREATING SKIN
EDGE.047A	US	12/346,582 (Pat. No. 8,343,116)	Dec. 30, 2008	APPARATUS AND METHOD FOR TREATING THE SKIN
EDGE.047C1	US	13/620,376 (Pat. No. 9,486,615)	Sep. 14, 2012	MICRODERMABRASION APPARATUS AND METHOD
EDGE.047C2	US	15/344,357 (Pat. No. 10,556,096)	Nov. 4, 2016	DEVICES AND METHODS FOR SKIN TREATMENT
EDGE.047C3	US	16/784,044	Feb. 6, 2020	DEVICES AND METHODS FOR SKIN TREATMENT
EDGE.050A	US	09/540,945 (Pat. No. 6,592,595)	Mar. 31, 2000	MICRODERMABRASION AND SUCTION MASSAGE APPARATUS AND METHOD
EDGE.050C1	US	09/698,409 (Pat. No. 6,527,783)	Oct. 27, 2000	MICRODERMABRASION AND SUCTION MASSAGE APPARATUS AND METHOD
EDGE.050DV1	US	10/177,173 (Pat. No. 6,673,082)	Jun. 20, 2002	MICRODERMABRASION HANDPIECE WITH SUPPLY AND RETURN LUMENS
EDGE.051A	US	10/315,478 (Pat. No. 6,942,649)	Dec. 10, 2002	MICRODERMABRASION FLUID APPLICATION SYSTEM AND METHOD
EDGE.052A	US	09/699,220 (Pat. No. 6,629,983)	Oct. 27, 2000	APPARATUS AND METHOD FOR SKIN/SURFACE ABRASION
EDGE.065A	US	14/211,089 (Pat. No. 10,238,812)	Mar. 14, 2014	SKIN TREATMENT SYSTEMS AND METHODS USING NEEDLES
EDGE.065C1	US	16/363,310	Mar. 25, 2019	SKIN TREATMENT SYSTEMS AND METHODS USING NEEDLES
EDGE.077A	US	14/211,290 (Pat. 9,566,088)	Mar. 14, 2014	DEVICES, SYSTEMS AND METHODS FOR TREATING THE SKIN

Attorney Docket No.	Country	App. No. (Pat. No., if appl.)	Filing Date	Title
EDGE.077C1	US	15/430,209 (Pat. 10,251,675)	Feb. 10, 2017	DEVICES, SYSTEMS AND METHODS FOR TREATING THE SKIN
EDGE.077C2	US	16/376,956	Apr. 5, 2019	DEVICES, SYSTEMS AND METHODS FOR TREATING THE SKIN
EDGE.077NP	US	14/774,641 (Pat. 10,172,644)	Sep. 10, 2015	DEVICES, SYSTEMS AND METHODS FOR TREATING THE SKIN
EDGE.077NPC1	US	16/241,572	Jan. 7, 2019	DEVICES, SYSTEMS AND METHODS FOR TREATING THE SKIN
EDGE.077NPC2	US	17/163,128	Jan. 29, 2021	DEVICES, SYSTEMS AND METHODS FOR TREATING THE SKIN
EDGE.077NPC3	US	17/163,199	Jan. 29, 2021	DEVICES, SYSTEMS AND METHODS FOR TREATING THE SKIN
EDGE.077NPC4	US	17/163,237	Jan. 29, 2021	DEVICES, SYSTEMS AND METHODS FOR TREATING THE SKIN
EDGE.077NPC5	US	17/163,240	Jan. 29, 2021	DEVICES, SYSTEMS AND METHODS FOR TREATING THE SKIN
EDGE.090A	US	14/998,375 (Pat. No. 9,498,610)	Dec. 23, 2015	DEVICES AND METHODS FOR TREATING THE SKIN USING A ROLLERBALL OR A WICKING MEMBER
EDGE.090C1	US	15/354,754 (Pat. No. 10,035,007)	Nov. 17, 2016	DEVICES AND METHODS FOR TREATING THE SKIN
EDGE.090C2	US	16/040,397	Jul. 19, 2018	DEVICES AND METHODS FOR TREATING THE SKIN
EDGE.090C3	US	17/164,580	Feb. 1, 2021	DEVICES AND METHODS FOR TREATING THE SKIN
EDGE.090P1	US	15/498,416 (Pat. No. 10,179,229)	Apr. 26, 2017	DEVICES AND METHODS FOR TREATING THE SKIN USING A POROUS MEMBER
EDGE.090P1C1	US	16/246306	Jan. 11, 2019	DEVICES AND METHODS FOR TREATING THE SKIN USING A POROUS MEMBER
EDGE.091A	US	15/204,939	Jul. 7, 2016	DEVICES, SYSTEMS AND METHODS FOR PROMOTING HAIR GROWTH

Timing of Disclosure

This IDS is being filed before the receipt of a First Office Action on the merits, and presumably no fee is required. If a First Office Action on the merits was mailed before the mailing date of this Statement, the Commissioner is authorized to charge the fee set forth in 37 CFR 1.17(p) to Deposit Account No. 11-1410.

Respectfully submitted,

KNOBBE, MARTENS, OLSON & BEAR, LLP

Dated: March 19, 2021

By: /Theodore G. Papagiannis/
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Registration No. 61546
Registered Practitioner
(949) 760-0404

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PTO/SB/06 (09-11)
Approved for use through 1/31/2014. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
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PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875	Application or Docket Number 16/517,268	Filing Date 07/19/2019	☑ To be Mailed

ENTITY: ☐ LARGE ☑ SMALL ☐ MICRO

APPLICATION AS FILED - PART I

FOR	(Column 1) NUMBER FILED	(Column 2) NUMBER EXTRA		RATE ($)	FEE ($)
☐ BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A		N/A	
☐ SEARCH FEE (37 CFR 1.16(k), (i), or (m))	N/A	N/A		N/A	
☐ EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A		N/A	
TOTAL CLAIMS (37 CFR 1.16(i))	minus 20 =	*		x $50 =	
INDEPENDENT CLAIMS (37 CFR 1.16(h))	minus 3 =	*		x $230 =	
☐ APPLICATION SIZE FEE (37 CFR 1.16(s))	If the specification and drawings exceed 100 sheets of paper, the application size fee due is $310 ($155 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).				
☐ MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))					
* If the difference in column 1 is less than zero, enter "0" in column 2.				TOTAL	

APPLICATION AS AMENDED - PART II

		(Column 1)		(Column 2)	(Column 3)			
AMENDMENT	03/18/2021	CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA		RATE ($)	ADDITIONAL FEE ($)
	Total (37 CFR 1.16(i))	* 20	Minus	** 20	= 0		x $50 =	0
	Independent (37 CFR 1.16(h))	* 3	Minus	*** 3	= 0		x $240 =	0
	☐ Application Size Fee (37 CFR 1.16(s))							
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))							
							TOTAL ADD'L FEE	0

		(Column 1)		(Column 2)	(Column 3)			
AMENDMENT		CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA		RATE ($)	ADDITIONAL FEE ($)
	Total (37 CFR 1.16(i))	*	Minus	**	=		x $0 =	
	Independent (37 CFR 1.16(h))	*	Minus	***	=		x $0 =	
	☐ Application Size Fee (37 CFR 1.16(s))							
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))							
							TOTAL ADD'L FEE	

* If the entry in column 1 is less than the entry in column 2, write "0" in column 3.	LIE
** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20".	/KATRINA L HARLING/
*** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3".	
The "Highest Number Previously Paid For" (Total or Independent) is the highest number found in the appropriate box in column 1.	

This collection of information is required by 37 CFR 1.16. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

PTO/SB/06 (09-11)
Approved for use through 1/31/2014. OMB 0651-0032
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PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875	Application or Docket Number 16/517,268	Filing Date 07/19/2019	☐ To be Mailed

ENTITY: ☐ LARGE ☑ SMALL ☐ MICRO

APPLICATION AS FILED - PART I

FOR	(Column 1) NUMBER FILED	(Column 2) NUMBER EXTRA		RATE ($)	FEE ($)
☐ BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A		N/A	
☐ SEARCH FEE (37 CFR 1.16(k), (i), or (m))	N/A	N/A		N/A	
☐ EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A		N/A	
TOTAL CLAIMS (37 CFR 1.16(i))	minus 20 =	*		x $50 =	
INDEPENDENT CLAIMS (37 CFR 1.16(h))	minus 3 =	*		x $230 =	
☐ APPLICATION SIZE FEE (37 CFR 1.16(s))	If the specification and drawings exceed 100 sheets of paper, the application size fee due is $310 ($155 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).				
☐ MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))					
* If the difference in column 1 is less than zero, enter "0" in column 2.				TOTAL	

APPLICATION AS AMENDED - PART II

		(Column 1)		(Column 2)	(Column 3)			
AMENDMENT	03/18/2021	CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA		RATE ($)	ADDITIONAL FEE ($)
	Total (37 CFR 1.16(i))	* 20	Minus	** 20	= 0		x $50 =	0
	Independent (37 CFR 1.16(h))	* 3	Minus	*** 3	= 0		x $240 =	0
	☐ Application Size Fee (37 CFR 1.16(s))							
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))							
							TOTAL ADD'L FEE	0

		(Column 1)		(Column 2)	(Column 3)			
AMENDMENT		CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA		RATE ($)	ADDITIONAL FEE ($)
	Total (37 CFR 1.16(i))	*	Minus	**	=		x $0 =	
	Independent (37 CFR 1.16(h))	*	Minus	***	=		x $0 =	
	☐ Application Size Fee (37 CFR 1.16(s))							
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))							
							TOTAL ADD'L FEE	

* If the entry in column 1 is less than the entry in column 2, write "0" in column 3.	LIE
** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20".	/VENESSA JONES/
*** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3".	
The "Highest Number Previously Paid For" (Total or Independent) is the highest number found in the appropriate box in column 1.	

This collection of information is required by 37 CFR 1.16. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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PTO/SB/08 Equivalent

INFORMATION DISCLOSURE STATEMENT BY APPLICANT	Application No.	16/517,268
	Filing Date	July 19, 2019
	First Named Inventor	Ignon, Roger
	Art Unit	3771
(Multiple sheets used when necessary)	Examiner	Christian D. Knauss
SHEET 1 OF 19	Attorney Docket No.	EDGE.005C7

U.S. PATENT DOCUMENTS

Examiner Initials	Cite No.	Document Number *Number - Kind Code (if known)* Example: 1,234,567 B1	Publication Date MM-DD-YYYY	Name of Patentee or Applicant	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear
	1	1,651,585	12-06-1927	Clair	
	2	2,608,032	08-26-1952	Garver	
	3	2,631,583	03-17-1953	Lavergne	
	4	2,701,559	02-05-1955	Cooper	
	5	2,712,823	07-12-1955	Kurtin	
	6	2,867,214	01-06-1959	Wilson	
	7	2,881,763	04-14-1959	Robbins	
	8	2,921,585	01-19-1960	Schumann	
	9	3,037,509	06-05-1962	Schutz	
	10	3,085,573	04-16-1963	Meyer et al.	
	11	3,214,869	11-02-1965	Stryker	
	12	3,468,079	09-23-1969	Kaufman	
	13	3,476,112	11-04-1969	Elstein	
	14	3,481,677	12-02-1969	Abrahamson	
	15	3,505,993	04-14-1970	Lewes et al.	
	16	3,574,239	04-13-1971	Sollerud	
	17	3,715,838	02-13-1973	Young et al.	
	18	3,865,352	02-11-1975	Nelson et al.	
	19	3,866,264	02-18-1975	Engquist	
	20	3,948,265	04-06-1976	Al Ani	
	21	3,964,212	06-22-1976	Karden	
	22	3,968,789	07-13-1976	Simoncini	
	23	3,977,084	08-31-1976	Sloan	
	24	4,121,388	10-24-1978	Wilson	
	25	4,155,721	05-22-1979	Fletcher	
	26	4,170,821	10-16-1979	Booth	
	27	4,182,329	01-08-1980	Smit et al.	

Examiner Signature	Date Considered
***Examiner:** Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

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PTO/SB/08 Equivalent

INFORMATION DISCLOSURE STATEMENT BY APPLICANT	Application No.	16/517,268
	Filing Date	July 19, 2019
	First Named Inventor	Ignon, Roger
	Art Unit	3771
(Multiple sheets used when necessary)	Examiner	Christian D. Knauss
SHEET 2 OF 19	Attorney Docket No.	EDGE.005C7

U.S. PATENT DOCUMENTS

Examiner Initials	Cite No.	Document Number *Number - Kind Code (if known)* Example: 1,234,567 B1	Publication Date MM-DD-YYYY	Name of Patentee or Applicant	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear
	28	4,203,431	05-20-1980	Abura et al.	
	29	4,216,233	08-05-1980	Stein	
	30	4,225,254	09-30-1980	Holberg et al.	
	31	4,289,158	09-15-1981	Nehring	
	32	4,299,219	11-10-1981	Norris, Jr.	
	33	4,378,804	04-05-1983	Cortese	
	34	4,560,373	12-24-1985	Sugino et al.	
	35	4,646,480	03-03-1987	Williams	
	36	4,646,482	03-03-1987	Chitjian	
	37	4,655,743	04-07-1987	Hyde	
	38	4,676,749	06-30-1987	Mabille	
	39	4,706,676	11-17-1987	Peck	
	40	4,718,467	01-12-1988	Di Gianfilippo et al.	
	41	4,754,756	07-05-1988	Shelanski	
	42	4,757,814	07-19-1988	Wang et al.	
	43	4,764,362	08-16-1988	Barchas	
	44	4,795,421	01-03-1989	Blasius, Jr., et al.	
	45	4,811,734	03-14-1989	McGurk-Burleson et al	
	46	4,836,192	06-06-1989	Abbate	
	47	4,875,287	10-24-1989	Creasy et al.	
	48	4,886,078	12-12-1989	Shiffman	
	49	4,887,994	12-12-1989	Bedford	
	50	4,900,316	02-13-1990	Yamamoto	
	51	4,917,086	04-17-1990	Feltovich et al.	
	52	4,925,450	05-15-1990	Imonti et al.	
	53	4,940,350	07-10-1990	Kim	
	54	4,957,747	09-18-1990	Stiefel	

Examiner Signature	Date Considered

***Examiner:** Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

T[1] - Place a check mark in this area when an English language Translation is attached.

PTO/SB/08 Equivalent

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	Filing Date	July 19, 2019
	First Named Inventor	Ignon, Roger
	Art Unit	3771
(Multiple sheets used when necessary)	Examiner	Christian D. Knauss
SHEET 3 OF 19	Attorney Docket No.	EDGE.005C7

U.S. PATENT DOCUMENTS

Examiner Initials	Cite No.	Document Number *Number - Kind Code (if known)* Example: 1,234,567 B1	Publication Date MM-DD-YYYY	Name of Patentee or Applicant	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear
	55	5,006,004	04-09-1991	Dirksing et al.	
	56	5,006,339	04-09-1991	Bargery et al.	
	57	5,012,797	05-07-1991	Liang et al.	
	58	5,035,089	07-30-1991	Tillman et al.	
	59	5,037,431	08-06-1991	Summers et al.	
	60	5,037,432	08-06-1991	Molinari	
	61	5,054,339	10-08-1991	Yacowitz	
	62	5,100,412	03-31-1992	Rosso	
	63	5,100,424	03-31-1992	Jang	
	64	5,119,839	06-09-1992	Rudolph	
	65	5,122,153	06-16-1992	Harrel	
	66	5,171,215	12-15-1992	Flanagan	
	67	5,192,269	03-09-1993	Poli et al.	
	68	5,207,234	05-04-1993	Rosso	
	69	5,222,956	06-29-1993	Waldron	
	70	5,242,433	09-07-1993	Smith et al.	
	71	5,254,109	10-19-1993	Smith et al.	
	72	5,368,581	11-29-1994	Smith et al.	
	73	5,387,215	02-07-1995	Fisher	
	74	5,391,151	02-21-1995	Wilmot	
	75	5,417,674	05-23-1995	Smith et al.	
	76	5,419,772	05-30-1995	Teitz et al.	
	77	5,441,490	08-15-1995	Svedman	
	78	5,460,620	10-24-1995	Smith et al.	
	79	5,470,323	11-28-1995	Smith et al.	
	80	5,484,427	01-16-1996	Gibbons	
	81	5,490,736	02-13-1996	Haber et al.	

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	Filing Date	July 19, 2019
	First Named Inventor	Ignon, Roger
	Art Unit	3771
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U.S. PATENT DOCUMENTS

Examiner Initials	Cite No.	Document Number *Number - Kind Code (if known)* Example: 1,234,567 B1	Publication Date MM-DD-YYYY	Name of Patentee or Applicant	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear
	82	5,512,044	04-30-1996	Duer	
	83	5,562,642	10-08-1996	Smith et al.	
	84	5,562,643	10-08-1996	Johnson	
	85	5,611,687	03-18-1997	Wagner	
	86	5,612,797	03-18-1997	Clarke	
	87	5,674,235	10-07-1997	Parisi	
	88	5,676,643	10-14-1997	Cann et al.	
	89	5,676,648	10-14-1997	Henley	
	90	5,683,971	11-04-1997	Rose et al.	
	91	5,697,920	12-16-1997	Gibbons	
	92	5,707,383	01-13-1998	Bays	
	93	5,713,785	02-03-1998	Nishio	
	94	5,735,833	04-07-1998	Olson	
	95	5,759,185	06-02-1998	Grinberg	
	96	5,762,640	06-09-1998	Kajiwara et al.	
	97	5,779,519	07-14-1998	Oliver	
	98	5,800,446	09-01-1998	Banuchi	
	99	5,807,353	09-15-1998	Schmitz	
	100	5,810,842	09-22-1998	Di Fiore at al.	
	101	5,813,416	09-29-1998	Rudolph	
	102	5,817,050	10-06-1998	Klein	
	103	5,834,510	11-10-1998	Yu et al.	
	104	5,846,215	12-08-1998	Zygmont	
	105	5,848,998	12-15-1998	Marasco, Jr.	
	106	5,857,995	01-12-1999	Thomas et al.	
	107	5,861,142	01-19-1999	Schick	
	108	5,873,881	02-23-1999	McEwen et al.	

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U.S. PATENT DOCUMENTS					
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	109	5,879,323	03-09-1999	Henley	
	110	5,882,201	03-16-1999	Salem	
	111	5,885,260	03-23-1999	Mehl, Sr., et al.	
	112	5,908,401	06-01-1999	Henley	
	113	5,919,152	07-06-1999	Zygmont	
	114	5,954,730	09-21-1999	Bernabei	
	115	5,971,999	10-26-1999	Naldoni	
	116	5,980,555	11-09-1999	Barbut et al.	
	117	6,019,749	02-01-2000	Fields et al.	
	118	6,024,733	02-15-2000	Eggers et al.	
	119	6,027,402	02-22-2000	Oliver	
	120	6,039,745	03-21-2000	Di Fiore et al.	
	121	6,042,552	03-28-2000	Cornier	
	122	6,080,165	06-27-2000	DeJacma	
	123	6,080,166	06-27-2000	McEwen et al.	
	124	6,090,085	07-18-2000	Mehl, Sr. Et al.	
	125	6,120,512	09-19-2000	Bernabei	
	126	6,023,639	02-08-2000	Hakky et al.	
	127	6,129,701	10-10-2000	Cimino	
	128	6,136,008	10-24-2000	Becker et al.	
	129	6,139,553	10-31-2000	Dotan	
	130	6,139,554	10-31-2000	Karkar et al.	
	131	6,142,155	11-07-2000	Rudolph	
	132	6,149,634	11-21-2000	Bernabei	
	133	6,159,226	12-12-2000	Kim	
	134	6,162,218	12-19-2000	Elbrecht et al.	
	135	6,162,232	12-19-2000	Shadduck	

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U.S. PATENT DOCUMENTS					
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	136	6,165,059	12-26-2000	Parkin et al.	
	137	6,183,451	02-06-2001	Mehl, Sr., et al.	
	138	6,183,483	02-06-2001	Chang	
	139	6,193,589	02-27-2001	Khalaj	
	140	6,196,982	03-06-2001	Ball	
	141	6,231,593	05-15-2001	Meserol	
	142	6,235,039	05-22-2001	Parkin et al.	
	143	6,238,275	05-29-2001	Metcalf et al.	
	144	6,241,739	06-05-2001	Waldron	
	145	6,264,666	07-24-2001	Coleman et al.	
	146	6,277,128	08-21-2001	Muldner	
	147	6,283,978	09-04-2001	Cheski et al.	
	148	6,299,620	10-09-2001	Shadduck	
	149	6,306,119	10-23-2001	Weber et al.	
	150	6,306,147	10-23-2001	Bernabei et al.	
	151	6,322,548	11-27-2001	Payne et al.	
	152	6,322,568	11-27-2001	Bernabei et al.	
	153	6,332,886	12-25-2001	Green et al.	
	154	6,368,333	04-09-2002	Bernabei et al.	
	155	6,387,103	05-14-2002	Shadduck	
	156	6,401,289	06-11-2002	Herbert	
	157	6,409,736	06-25-2002	Bernabei	
	158	6,410,599	06-25-2002	Johnson	
	159	6,414,032	07-02-2002	Johnson	
	160	6,420,431	07-16-2002	Johnson	
	161	6,423,078	07-23-2002	Bays et al.	
	162	6,423,750	07-23-2002	Johnson	

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	163	RE 37,796	07-23-2002	Henley	
	164	6,432,113	08-13-2002	Parkin et al.	
	165	6,432,114	08-13-2002	Rosso	
	166	6,471,712	10-29-2002	Burres	
	167	6,477,410	11-05-2002	Henley et al.	
	168	6,482,212	11-19-2002	Bernabei et al.	
	169	6,488,646	12-03-2002	Zygmont	
	170	6,494,856	12-17-2002	Zygmont	
	171	6,500,183	12-31-2002	Waldron	
	172	6,503,256	01-07-2003	Parkin et al.	
	173	6,511,486	01-28-2003	Mercier et al.	
	174	6,514,262	02-04-2003	Di Fiore, et al.	
	175	6,527,783	03-04-2003	Ignon	
	176	6,535,761	03-18-2003	Bernabei	
	177	6,540,757	04-01-2003	Hruska et al.	
	178	6,562,013	05-13-2003	Marasco, Jr.	
	179	6,562,050	05-13-2003	Owen	
	180	6,564,093	05-13-2003	Ostrow et al.	
	181	6,565,535	05-20-2003	Zaias et al.	
	182	6,582,442	06-24-2003	Simon et al.	
	183	6,589,218	07-08-2003	Garcia	
	184	6,592,595	07-15-2003	Mallett et al.	
	185	6,629,983	10-07-2003	Ignon	
	186	6,641,591	11-04-2003	Shadduck	
	187	6,645,184	11-11-2003	Zelickson et al.	
	188	6,652,888	11-25-2003	Rhoades	
	189	6,666,874	12-23-2003	Heitzmann et al.	

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	190	6,673,081	01-06-2004	Tavger et al.	
	191	6,673,082	01-06-2004	Mallett et al.	
	192	6,685,853	02-03-2004	Angelopoulous et al.	
	193	6,687,537	02-03-2004	Bernabei	
	194	6,695,853	02-24-2004	Karasiuk	
	195	6,735,470	05-11-2004	Henley et al.	
	196	6,743,211	06-01-2004	Prausnitz et al.	
	197	6,743,215	06-01-2004	Bernabei	
	198	6,764,493	07-20-2004	Weber et al.	
	199	6,800,083	10-05-2004	Hiblar et al.	
	200	6,869,611	03-22-2005	Kligman et al.	
	201	6,905,487	06-14-2005	Zimmerman	
	202	6,911,031	06-28-2005	Muldner	
	203	6,926,681	08-09-2005	Ramey, et al.	
	204	6,942,649	09-13-2005	Ignon et al.	
	205	6,960,206	11-01-2005	Keane	
	206	7,001,355	02-21-2006	Nunomura et al.	
	207	7,004,933	02-28-2006	McDaniel	
	208	7,044,938	05-16-2006	La Bianco et al.	
	209	7,052,503	05-30-2006	Bernabei	
	210	7,069,073	06-27-2006	Henley et al.	
	211	7,070,488	07-04-2006	Suissa et al.	
	212	7,083,580	08-01-2006	Bernabei	
	213	7,087,063	08-08-2006	Carson et al.	
	214	7,094,252	08-22-2006	Koop	
	215	7,115,275	10-03-2006	Clarot et al.	
	216	7,135,011	11-14-2006	Powers et al.	

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U.S. PATENT DOCUMENTS					
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	217	7,153,311	12-26-2006	Chung	
	218	7,197,359	03-27-2007	Tokudome et al.	
	219	7,198,623	04-03-2007	Fischer et al.	
	220	7,232,444	06-19-2007	Chang	
	221	7,241,208	07-10-2007	Suissa et al.	
	222	7,276,051	10-02-2007	Henley et al.	
	223	7,293,930	11-13-2007	Chuang	
	224	7,314,326	01-01-2008	Rosenberg	
	225	7,316,657	01-08-2008	Kleinhenz et al.	
	226	7,318,828	01-15-2008	Revivo	
	227	7,320,691	01-22-2008	Pilcher et al.	
	228	7,320,801	01-22-2008	Kelly	
	229	7,354,423	04-08-2008	Zelickson et al.	
	230	7,364,565	04-29-2008	Freeman	
	231	7,384,405	06-10-2008	Rhoades	
	232	7,427,273	09-23-2008	Mitsui	
	233	7,458,944	12-02-2008	Liste et al.	
	234	7,476,205	01-13-2009	Erdmann	
	235	7,477,938	01-13-2009	Sun et al.	
	236	7,482,314	01-27-2009	Grimes et al.	
	237	7,485,125	02-03-2009	Sjostrom	
	238	7,489,989	02-10-2009	Sukhanov et al.	
	239	7,507,228	03-24-2009	Sun et al.	
	240	7,582,067	09-01-2009	Van Acker	
	241	7,597,900	10-06-2009	Zimmer et al.	
	242	7,597,901	10-06-2009	Clarot et al.	
	243	7,658,742	02-09-2010	Karasiuk	

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	244	7,678,120	03-16-2010	Shadduck	
	245	7,744,582	06-29-2010	Sadowski et al.	
	246	7,789,886	09-07-2010	Shadduck	
	247	7,837,695	11-23-2010	Hart et al.	
	248	7,901,373	03-08-2011	Tavger	
	249	7,951,156	05-31-2011	Karasiuk	
	250	7,993,333	08-09-2011	Oral et al.	
	251	8,025,669	09-27-2011	David et al.	
	252	8,048,089	11-01-2011	Ignon et al.	
	253	RE 42,960	11-22-2011	Waldron	
	254	8,066,716	11-29-2011	Shadduck	
	255	8,088,085	01-03-2012	Thiebaut et al.	
	256	8,105,295	01-31-2012	Blott et al.	
	257	8,128,638	03-06-2012	Karasiuk et al.	
	258	8,221,437	07-17-2012	Waldron et al.	
	259	8,236,008	08-07-2012	Boone, III et al.	
	260	8,277,287	10-02-2012	Hart	
	261	8,337,513	12-25-2012	Shadduck	
	262	8,343,116	01-01-2013	Ignon et al.	
	263	8,814,836	08-26-2014	Ignon et al.	
	264	9,056,193	06-16-2015	Ignon et al.	
	265	9,468,464	10-18-2016	Shadduck	
	266	9,474,886	10-25-2016	Ignon et al.	
	267	9,486,615	11-08-2016	Ignon et al.	
	268	9,498,610	11-22-2016	Ignon et al.	
	269	9,550,052	01-24-2017	Ignon et al.	
	270	9,566,088	02-14-2017	Ignon et al.	

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	271	9,642,997	05-09-2017	Ignon et al.	
	272	9,662,482	05-30-2017	Ignon et al.	
	273	9,775,646	10-03-2017	Shadduck	
	274	9,814,868	11-14-2017	Ignon et al.	
	275	10,035,007	07-31-2018	Ignon et al.	
	276	10,172,644	01-08-2019	Ignon et al.	
	277	10,179,229	01-15-2019	Ignon et al.	
	278	10,238,812	03-26-2019	Ignon	
	279	10,251,675	04-09-2019	Ignon et al.	
	280	10,357,641	07-23-2019	Ignon et al.	
	281	10,357,642	07-23-2019	Ignon et al.	
	282	10,556,096	02-11-2020	Ignon et al.	
	283	10,556,097	02-11-2020	Ignon et al.	
	284	2001/0023351	09-20-2001	Eilers	
	285	2001/0037118	11-01-2001	Shadduck	
	286	2001/0049511	12-06-2001	Coleman et al.	
	287	2002/0016601	02-07-2002	Shadduck	
	288	2002/0041891	04-11-2002	Cheski	
	289	2002/0058952	05-16-2002	Weber et al.	
	290	2002/0107527	08-08-2002	Burres	
	291	2002/0128663	09-12-2002	Mercier et al.	
	292	2002/0133110	09-19-2002	Citow	
	293	2002/0133176	09-19-2002	Parkin et al.	
	294	2002/0151826	10-17-2002	Ramey et al	
	295	2002/0151908	10-17-2002	Mallett Sr. et al.	
	296	2002/0162863	11-07-2002	Brincat	
	297	2002/0188261	12-12-2002	Hruska	

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	298	2003/0012415	01-16-2003	Cossel	
	299	2003/0018252	01-23-2003	Duchon et al.	
	300	2003/0060834	03-27-2003	Muldner	
	301	2003/0093040	05-15-2003	Mikszta et al.	
	302	2003/0093089	05-15-2003	Greenberg	
	303	2003/0097139	05-22-2003	Karasiuk	
	304	2003/0167032	09-04-2003	Ignon	
	305	2003/0187462	10-14-2003	Chang	
	306	2003/0208159	11-06-2003	Ignon, et al.	
	307	2003/0212127	11-13-2003	Glassman et al.	
	308	2003/0212415	11-13-2003	Karasiuk	
	309	2004/0010222	01-15-2004	Nunomura et al.	
	310	2004/0010269	01-15-2004	Grimes et al.	
	311	2004/0015139	01-22-2004	La Bianco	
	312	2004/0087972	05-06-2004	Mulholland, et al.	
	313	2004/0092895	05-13-2004	Harmon	
	314	2004/0092959	05-13-2004	Bernaz	
	315	2004/0097967	05-20-2004	Ignon	
	316	2004/0122447	06-24-2004	Harmon et al.	
	317	2004/0127914	07-01-2004	Chung	
	318	2004/0143274	07-22-2004	Shadduck	
	319	2004/0162565	08-19-2004	Carson et al.	
	320	2004/0166172	08-26-2004	Rosati et al.	
	321	2004/0219179	11-04-2004	McDaniel	
	322	2004/0236291	11-25-2004	Zelickson et al.	
	323	2004/0243149	12-02-2004	Lee, John B. JR.	
	324	2004/0254587	12-16-2004	Park	

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	Filing Date	July 19, 2019
	First Named Inventor	Ignon, Roger
	Art Unit	3771
(Multiple sheets used when necessary)	Examiner	Christian D. Knauss
SHEET 13 OF 19	Attorney Docket No.	EDGE.005C7

U.S. PATENT DOCUMENTS					
Examiner Initials	Cite No.	Document Number *Number - Kind Code (if known)* Example: 1,234,567 B1	Publication Date MM-DD-YYYY	Name of Patentee or Applicant	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear
	325	2004/0267285	12-30-2004	Chang	
	326	2005/0037034	02-17-2005	Rhoades	
	327	2005/0038448	02-17-2005	Chung	
	328	2005/0059940	03-17-2005	Weber et al.	
	329	2005/0084509	04-21-2005	Bernstein	
	330	2005/0148958	07-07-2005	Rucinski	
	331	2005/0203111	09-15-2005	David	
	332	2005/0209611	09-22-2005	Greenberg	
	333	2005/0283176	12-22-2005	Law	
	334	2006/0002960	01-05-2006	Zoeteweij et al.	
	335	2006/0116674	06-01-2006	Goble et al.	
	336	2006/0161178	07-20-2006	Lee	
	337	2006/0189964	08-24-2006	Anderson	
	338	2006/0191562	08-31-2006	Numomura	
	339	2006/0200099	09-07-2006	La Bianco et al.	
	340	2006/0200172	09-07-2006	Shadduck	
	341	2006/0200173	09-07-2006	Shadduck	
	342	2006/0212029	09-21-2006	Villacampa et al.	
	343	2006/0222445	10-05-2006	Chuang	
	344	2006/0253125	11-09-2006	Ignon	
	345	2006/0264893	11-23-2006	Sage, Jr. et al.	
	346	2006/0269580	11-30-2006	Cole et al.	
	347	2007/0005078	01-04-2007	Hart et al.	
	348	2007/0043382	02-22-2007	Cheney	
	349	2007/0065515	03-22-2007	Key	
	350	2007/0088371	04-19-2007	Karasiuk	
	351	2007/0123808	05-31-2007	Rhoades	

Examiner Signature	Date Considered
***Examiner:** Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

T[1] - Place a check mark in this area when an English language Translation is attached.

PTO/SB/08 Equivalent

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(Multiple sheets used when necessary)	Examiner	Christian D. Knauss
SHEET 14 OF 19	Attorney Docket No.	EDGE.005C7

U.S. PATENT DOCUMENTS					
Examiner Initials	Cite No.	Document Number *Number - Kind Code (if known)* Example: 1,234,567 B1	Publication Date MM-DD-YYYY	Name of Patentee or Applicant	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear
	352	2007/0154502	07-05-2007	Hattendorf et al.	
	353	2007/0156124	07-05-2007	Ignon et al.	
	354	2007/0178121	08-02-2007	First et al.	
	355	2007/0198031	08-23-2007	Kellogg	
	356	2007/0208353	09-06-2007	Shadduck	
	357	2007/0239173	10-11-2007	Khalaj	
	358	2008/0027328	01-31-2008	Klopotek et al.	
	359	2008/0091179	04-17-2008	Durkin et al.	
	360	2008/0103563	05-01-2008	Powell	
	361	2008/0119781	05-22-2008	King	
	362	2008/0132914	06-05-2008	Bossard et al.	
	363	2008/0139974	06-12-2008	Da Silva	
	364	2008/0154161	06-26-2008	Abbott	
	365	2008/0193493	08-14-2008	Rhoades	
	366	2008/0200861	08-21-2008	Shalev et al.	
	367	2008/0208146	08-28-2008	Brandwein et al.	
	368	2008/0214987	09-04-2008	Xu	
	369	2008/0215068	09-04-2008	Hart et al.	
	370	2008/0221548	09-11-2008	Danenberg et al.	
	371	2008/0243039	10-02-2008	Rhoades	
	372	2008/0287864	11-20-2008	Rosenberg	
	373	2008/0300529	12-04-2008	Reinstein	
	374	2008/0300552	12-04-2008	Cichocki et al.	
	375	2009/0048557	02-19-2009	Yeshurun et al.	
	376	2009/0053390	02-26-2009	Sakou et al.	
	377	2009/0062815	03-05-2009	Karasiuk et al.	
	378	2009/0099091	04-16-2009	Hantash	

Examiner Signature	Date Considered
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	Filing Date	July 19, 2019
	First Named Inventor	Ignon, Roger
	Art Unit	3771
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SHEET 15 OF 19	Attorney Docket No.	EDGE.005C7

U.S. PATENT DOCUMENTS					
Examiner Initials	Cite No.	Document Number *Number - Kind Code (if known)* Example: 1,234,567 B1	Publication Date MM-DD-YYYY	Name of Patentee or Applicant	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear
	379	2009/0099093	04-16-2009	Hantash	
	380	2009/0124985	05-14-2009	Hasenoehrl et al.	
	381	2009/0138026	05-28-2009	Wu	
	382	2009/0177171	07-09-2009	Ignon et al.	
	383	2009/0192442	07-30-2009	Ignon et al.	
	384	2009/0222023	09-03-2009	Boone, III et al.	
	385	2010/0023003	01-28-2010	Mulholland	
	386	2010/0045427	02-25-2010	Boone, III et al.	
	387	2010/0049177	02-25-2010	Boone, III et al.	
	388	2010/0049210	02-25-2010	Boone, III et al.	
	389	2010/0217357	08-26-2010	Da Silva	
	390	2010/0305495	12-02-2010	Anderson et al.	
	391	2011/0054490	03-03-2011	Hart	
	392	2011/0066162	03-17-2011	Cohen	
	393	2011/0082415	04-07-2011	Ignon et al.	
	394	2012/0022435	01-26-2012	Ignon et al.	
	395	2012/0041338	02-16-2012	Chickering III et al.	
	396	2012/0136374	05-31-2012	Karasiuk	
	397	2013/0004230	01-03-2013	Kirk, III et al.	
	398	2013/0018317	01-17-2013	Bobroff et al.	
	399	2013/0066336	03-14-2013	Boone, III et al.	
	400	2013/0096577	04-18-2013	Shadduck	
	401	2013/0102978	04-25-2013	Ignon et al.	
	402	2013/0144280	06-06-2013	Eckhouse et al.	
	403	2013/0158547	06-20-2013	David	
	404	2014/0343574	11-20-2014	Ignon et al.	
	405	2015/0032047	01-29-2015	Ignon et al.	

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	Filing Date	July 19, 2019
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	Art Unit	3771
(Multiple sheets used when necessary)	Examiner	Christian D. Knauss
SHEET 16 OF 19	Attorney Docket No.	EDGE.005C7

U.S. PATENT DOCUMENTS					
Examiner Initials	Cite No.	Document Number *Number - Kind Code (if known)* Example: 1,234,567 B1	Publication Date MM-DD-YYYY	Name of Patentee or Applicant	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear
	406	2015/0230824	08-20-2015	Shadduck	
	407	2015/0230825	08-20-2015	Shadduck	
	408	2015/0231379	08-20-2015	Ignon et al.	
	409	2015/0265822	09-24-2015	Ignon et al.	
	410	2015/0272623	10-01-2015	Ignon et al.	
	411	2015/0290442	10-15-2015	Ignon et al.	
	412	2017/0036002	02-09-2017	Ignon et al.	
	413	2017/0065801	03-09-2017	Ignon et al.	
	414	2017/0209894	07-27-2017	Sporrer	
	415	2018/0318568	11-08-2018	Ignon et al.	
	416	2019/0133642	05-09-2019	Ignon et al.	
	417	2019/0143089	05-16-2019	Ignon et al.	
	418	2019/0223914	07-25-2019	Ignon et al.	
	419	2020/0016342	01-16-2020	Ignon	
	420	2020/0171288	06-04-2020	Ignon et al.	
	421	2020/0171289	06-04-2020	Ignon et al.	

FOREIGN PATENT DOCUMENTS						
Examiner Initials	Cite No.	Foreign Patent Document *Country Code-Number-Kind Code* Example: JP 1234567 A1	Publication Date MM-DD-YYYY	Name of Patentee or Applicant	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear	**T[1]**
	422	AT 400 305	12-27-1995	Devida Ges MBH		
	423	AU 1 014 299	05-31-1999	Greenberg		
	424	CA 2 340 154	09-09-2002	Hoffman et al.		
	425	DD 234 608	04-09-1986	Rath		
	426	DE 59 95 21	07-04-1934	Strickler et al.		
	427	DE 24 15 633	10-16-1975	Nubert Geb KG		X Abstract
	428	DE 33 38 057	08-09-1984	Krueger-Beuster		X Abstract

Examiner Signature	Date Considered
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	Art Unit	3771
(Multiple sheets used when necessary)	Examiner	Christian D. Knauss
SHEET 17 OF 19	Attorney Docket No.	EDGE.005C7

FOREIGN PATENT DOCUMENTS

Examiner Initials	Cite No.	Foreign Patent Document *Country Code-Number-Kind Code* Example: JP 1234567 A1	Publication Date MM-DD-YYYY	Name of Patentee or Applicant	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear	T[1]
	429	DE 34 21 390	12-12-1985	Schubert		
	430	DE 35 03 343	08-14-1986	Frenkel		X Abstract
	431	DE 83 30 191	06-04-1987	Krueger-Beuster		
	432	DE 37 40 902	12-22-1988	Schlicksupp		X Abstract
	433	DE 42 37 940	05-19-1993	Berens et al.		X Abstract
	434	DE 298 08 395	08-27-1998	Ionto-Comed GmbH		
	435	DE 10 2004 015815	11-03-2005	Bundersrepublik Deutschland		
	436	EP 0 258 901	09-03-1987	Tonokura Ika Kogyo Co. LTD		
	437	EP 0 564 392	03-03-1993	Fructuoso Martinez		
	438	EP 0 784 997	07-23-1997	Koblinger Gerald Ing		X Abstract
	439	EP 2 106 780	03-09-2016	Pomar		
	440	ES 1 037 776	04-01-1998	Concustell Gonfaus		X Abstract
	441	FR 2 712 172	05-19-1995	Rabier		X Abstract
	442	FR 2 773 461	07-16-1999	Favie Alain		X Abstract
	443	GB 1 372 609	10-30-1974	Forenade Fabrik-Sverken		
	444	GB 2306351	05-07-1997	Inahara		
	445	IT 553 076	12-01-1956	Facconi		
	446	IT 118 49 22	03-22-1985	Porqueddu		
	447	JP H05-042060	02-23-1993	Hara		X
	448	JP1993-088552	12-03-1993	Sumitomo Bakelite Co., Ltd.		

Examiner Signature	Date Considered
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	Filing Date	July 19, 2019
	First Named Inventor	Ignon, Roger
	Art Unit	3771
(Multiple sheets used when necessary)	Examiner	Christian D. Knauss
SHEET 18 OF 19	Attorney Docket No.	EDGE.005C7

FOREIGN PATENT DOCUMENTS

Examiner Initials	Cite No.	Foreign Patent Document *Country Code-Number-Kind Code* Example: JP 1234567 A1	Publication Date MM-DD-YYYY	Name of Patentee or Applicant	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear	T[1]
	449	JP 1997-294747	11-18-1997	Fukutaro, Yamazaki		
	450	JP2003-339713	12-02-2003	Twinbird Corp		
	451	JP2003-534881	11-25-2003	Becton, Dickinson and Company		X Abstract
	452	JP2004-275721	10-07-2004	Matsushita Electric Works		
	453	JP2006-503627 (English abstract of WO 2004/037098)	02-02-2006	Bionoface		
	454	JP2006-204767	10-08-2006	Matsushita Electric Works		
	455	KR 20-0280320 (with English machine translation obtained from Korean Intellectual Property Office website, http://eng.kipris.or.kr/enghome/main.jsp)	07-02-2002	Lee		
	456	KR 10-20070070173	07-03-2007	Dermanew Inc.		X Abstract
	457	WO 1994/024980	11-10-1994	D+P Cosmetics AG		
	458	WO 1997/011650	03-04-1997	Cawley		
	459	WO 2000/015300	03-23-2000	Ultra Cure Ltd		
	460	WO 2001/93931	12-13-2001	Becton, Dickinson and Company		
	461	WO 2003/073917	09-12-2003	Edge Systems		
	462	WO 2004/037098	05-06-2004	Bionoface		
	463	WO 2005/070313	08-04-2005	Crystal Clear International Limited		
	464	WO 2006/018731	02-23-2006	Mc Anton Holding SA		
	465	WO 2006/031413	03-23-2006	Dermanew Inc.		

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	466	WO 2007/114904	10-11-2007	Amcol International Corporation		
	467	WO 2009/088884	07-16-2009	Edge Systems Corporation		
	468	WO 2009/097451	08-06-2009	Edge Systems Corporation		
	469	WO 2012/145667	10-26-2012	Sun-Less, Inc.		
	470	WO 2014/151104	09-25-2014	Edge Systems LLC		
	471	WO 2016/106396	06-30-2016	Edge Systems LLC		
	472	WO 2017/007939	01-12-2017	Edge Systems LLC		

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T[1]
	473	Cox III et al., Decreased Splatter in Dermabrasion, Arch Facial Plastic Surgery, Jan-Mar 2000, Vol. 2, pp. 23-26	
	474	Ditre et al., Effect of α-hydroxy acids on photoaged skin: A pilot clinical, histologic, and ultrastructural study, Journal of American Academy of Dermatology, February 1996, Vol. 34, No. 2, Part 1, pp.187-195.	
	475	Harris et al., Combining Manual Dermasanding with Low Strength Trichloroacetic Acid to Improve Antinically Injured Skin, The Journal of Dermatologic Surgery and Oncology, July 1994, Vol. 20, No. 7, pp. 436-442.	
	476	Microdermabrader Pepita Instruction Manual, Mattioli Engineering S.R.L., PEP_USA2.doc Rev 1.1, 09-29-1997	

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Electronic Acknowledgement Receipt	
EFS ID:	42218478
Application Number:	16517268
International Application Number:	
Confirmation Number:	9432
Title of Invention:	DEVICES AND METHODS FOR TREATING SKIN
First Named Inventor/Applicant Name:	Roger Ignon
Customer Number:	20995
Filer:	Theodore G. Papagiannis/Wendy Castorena
Filer Authorized By:	Theodore G. Papagiannis
Attorney Docket Number:	EDGE.005C7
Receipt Date:	18-MAR-2021
Filing Date:	19-JUL-2019
Time Stamp:	15:17:47
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Petition to make special based on Age/ Health	EDGE005C7_Petition_to_Make_Special_Based_on_Age.PDF	341099 f7abfce949651eee00afeabb9861c1e22592029f	no	2
Warnings:					

Information:					
2		EDGE005C7_PrelimAmend.pdf	60885 e0400da79df50e8debe1634af4c9be61c543ac52	yes	9
	Multipart Description/PDF files in .zip description				
	Document Description		**Start**	**End**	
	Preliminary Amendment		1	1	
	Claims		2	4	
	Applicant Arguments/Remarks Made in an Amendment		5	9	
Warnings:					
Information:					
3		EDGE005C7_IDS.pdf	229288 cb03ecd42f3d822b8ceaa4296f48f765ae51ab8a	yes	23
	Multipart Description/PDF files in .zip description				
	Document Description		**Start**	**End**	
	Transmittal Letter		1	4	
	Information Disclosure Statement (IDS) Form (SB08)		5	23	
Warnings:					
Information:					
		Total Files Size (in bytes):	631272		

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

Doc code: PET.OP.AGE
Description: Petition to make special based on age/health

PTO/SB/130 (01-19)
Approved for use through 11/30/2020. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number

PETITION TO MAKE SPECIAL BASED ON AGE FOR ADVANCEMENT OF EXAMINATION UNDER 37 CFR 1.102(c)(1)

Application Information

Application Number	16/517,268	Confirmation Number	9432	Filing Date	July 19, 2019
Attorney Docket Number (optional)	EDGE.005C7	Art Unit	3771	Examiner	Christian D. Knauss
First Named Inventor	Roger Ignon				
Title of Invention	DEVICES AND METHODS FOR TREATING SKIN				

Attention: Office of Petitions

An application may be made special for advancement of examination upon filing of a petition showing that the applicant is 65 years of age, or more. No fee is required with such a petition. See 37 CFR 1.102(c)(1) and MPEP 708.02 (II).

APPLICANT HEREBY PETITIONS TO MAKE SPECIAL FOR ADVANCEMENT OF EXAMINATION IN THIS APPLICATION UNDER 37 CFR 1.102(c)(1) and MPEP 708.02 (II) ON THE BASIS OF THE APPLICANT'S AGE.

A grantable petition requires one of the following items:

(1) Statement by one named inventor in the application that he/she is 65 years of age, or more; or

(2) Certification by a registered attorney/agent having evidence such as a birth certificate, passport, driver's license, etc. showing one named inventor in the application is 65 years of age, or more.

Name of inventor who is 65 years of age, or older

Given Name	Middle Name	Family Name	Suffix
Roger		Ignon	

A signature of the applicant or representative is required in accordance with 37 CFR 1.33 and 11.18. Please see 37 CFR 1.4(d) for the format of the signature.

Select (1) or (2):

☐ (1) I am an inventor in this application and I am 65 years of age, or more.

☒ (2) I am an attorney or agent registered to practice before the Patent and Trademark Office, and I certify that I am in possession of evidence, and will retain such in the application file record, showing that the inventor listed above is 65 years of age, or more.

Signature	/Theodore G. Papagiannis/	Date (YYYY-MM-DD)	2021-03-18
Name	Theodore G. Papagiannis	Registration Number	61,546

This collection of information is required by 37 CFR 1.102(c)(1). The information is required to obtain or retain a benefit by the public, which is to file (and by the USPTO to process) a petition to make special based on age for advancement of examination. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND COMPLETED FORMS TO THE CHIEF INFORMATION OFFICER. **Submit completed forms electronically over EFS-Web, or mail to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

Privacy Act Statement

The **Privacy Act of 1974 (P.L. 93-579)** requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether disclosure of these records is required by the Freedom of Information Act.
2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (*i.e.*, GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspection or an issued patent.
9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Inventor	:	Ignon et al.
Appl. No.	:	16/517,268
Filed	:	July 19, 2019
For	:	DEVICES AND METHODS FOR TREATING SKIN
Examiner	:	Christian D. Knauss
Art Unit	:	3771
Conf. No.	:	9432

PRELIMINARY AMENDMENT

Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Commissioner:

Applicant requests that the above-referenced application be amended as provided below.

Amendments to the Claims are reflected in the listing of claims which begins on page 2 of this paper.

Remarks begin on page 5 of this paper.

AMENDMENTS TO THE CLAIMS

The following listing of claims replaces all prior versions and listings of claims in the application. The listing of claims presents each claim with its respective status shown in parentheses.

1. (*Canceled*)

2. (*New*) A skin treatment system comprising:

a manifold system in communication with a first container and at least a second container, wherein each of the first container and the at least second container is configured to contain a treatment material, the manifold system being positioned in or on a console;

a supply conduit placing the manifold system in fluid communication with a handpiece assembly;

wherein the handpiece assembly comprises a working end having a skin contact surface;

a vacuum source;

a waste conduit in fluid communication with the handpiece assembly and the vacuum source to move waste away from the handpiece assembly during a skin treatment procedure; and

at least one switch to permit control of a flow of treatment material from the first container and the at least second container through the supply conduit to the handpiece assembly;

wherein the vacuum source is configured to create a suction force within the waste conduit and along the working end of the handpiece assembly to help remove waste from the handpiece assembly via the waste conduit.

3. (*New*) The system of Claim 2, further comprising a computing device configured to control at least one function of the system.

4. (*New*) The system of Claim 2, further comprising a user input device to facilitate control of a flow of treatment material from at least one of the first container and the at least second container to the handpiece assembly.

5. (*New*) The system of Claim 4, wherein the user input device comprises a touch screen.

6. (*New*) The system of Claim 2, further comprising a display.

7. (*New*) The system of Claim 2, wherein the manifold system is in communication with at least four containers.

8. (*New*) The system of Claim 2, the system is configured so that the first container and the at least second container are configured to releasably couple to the manifold system.

9. (*New*) The system of Claim 2, wherein treatment materials from the first container and the at least second container are delivered to the supply conduit sequentially or simultaneously.

10. (*New*) A skin treatment system comprising:

a manifold system in communication with at least two containers secured to the manifold system, wherein each of the at least two containers is configured to contain a treatment material;

a handpiece assembly configured to contact a skin surface of a subject, wherein a supply conduit places the manifold system in fluid communication with the handpiece assembly;

a vacuum source; and

a waste conduit in fluid communication with the handpiece assembly and the vacuum source to move waste away from the handpiece assembly;

wherein the system is configured to deliver at least one treatment material from at least one of the at least two containers to the handpiece assembly via the supply conduit.

11. (*New*) The system of Claim 10, wherein the manifold system is positioned in a console.

12. (*New*) The system of Claim 10, further comprising a computing device configured to control at least one function of the system.

13. (*New*) The system of Claim 10, further comprising a user input device to facilitate control a flow of treatment materials from at least one of the at least two containers to the handpiece assembly.

14. (*New*) The system of Claim 13, wherein the user input device comprises a touch screen.

15. (*New*) The system of Claim 10, wherein treatment materials from the first container and the at least second container are delivered to the supply conduit sequentially or simultaneously.

16. (*New*) A skin treatment system comprising:

a manifold system in communication with at least two containers, wherein each of the at least two containers is configured to contain a treatment material;

a handpiece assembly configured to contact a skin surface of a subject;

a supply conduit placing the manifold system in fluid communication with the handpiece assembly; and

a waste conduit in fluid communication with the handpiece assembly and a vacuum source to move waste away from the handpiece assembly; and

wherein the system is configured to deliver treatment materials from at least one of the at least two containers to the handpiece assembly via the supply conduit.

17. (*New*) The system of Claim 16, wherein the manifold system is positioned in a console.

18. (*New*) The system of Claim 16, further comprising a computing device configured to control at least one function of the system.

19. (*New*) The system of Claim 16, further comprising a user input device to facilitate control a flow of treatment materials from at least one of the at least two containers to the handpiece assembly.

20. (*New*) The system of Claim 19, wherein the user input device comprises a touch screen.

21. (*New*) The system of Claim 16, wherein treatment materials from the first container and the at least second container are delivered to the supply conduit sequentially or simultaneously.

REMARKS

Applicant submits this Preliminary Amendment prior to examination. Claim 1 is pending in this application. As reflected in the foregoing listing of claims, in order to advance prosecution, Applicant is canceling without prejudice Claim 1 and adding new Claims 2 to 21 herein. Applicant submits that no new matter is added by the foregoing amendments. Applicant reserves the right to pursue claims similar to the original claims and/or previously-pending versions of the claims in a continuing application.

No Disclaimers or Disavowals

Although the present communication may include alterations to the application or claims, or characterizations of claim scope or referenced art, Applicant is not conceding in this application that previously pending claims are not patentable over the cited references. Rather, any alterations or characterizations are being made to facilitate expeditious prosecution of this application. Applicant reserves the right to pursue at a later date any previously pending or other broader or narrower claims that capture any subject matter supported by the present disclosure, including subject matter found to be specifically disclaimed herein or by any prior prosecution. Accordingly, reviewers of this or any parent, child or related prosecution history shall not reasonably infer that Applicant has made any disclaimers or disavowals of any subject matter supported by the present application.

Co-Pending Applications of Assignee

Applicant wishes to draw the Examiner's attention to the following co-pending U.S. applications of the present application's assignee.

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EDGE.004C1DV1	US	11/739,615 (Pat. No. 8,337,513)	Apr. 24, 2007	INSTRUMENTS AND TECHNIQUES FOR CONTROLLED REMOVAL OF EPIDERMAL LAYERS
EDGE.004C2	US	11/417,709 (Pat. No. 8,066,716)	May 3, 2006	INSTRUMENTS AND TECHNIQUES FOR CONTROLLED REMOVAL OF EPIDERMAL LAYERS
EDGE.004C3	US	11/417,396 (Pat. No. 7,678,120)	May 3, 2006	INSTRUMENTS AND TECHNIQUES FOR CONTROLLED REMOVAL OF EPIDERMAL LAYERS

Application No.: 16/517,268
Filing Date: July 19, 2019

Attorney Docket No.	Country	App. No. (Pat. No., if appl.)	Filing Date	Title
EDGE.004C4	US	13/620,164	Sep. 14, 2012	INSTRUMENTS AND TECHNIQUES FOR CONTROLLED REMOVAL OF EPIDERMAL LAYERS
EDGE.004C5	US	14/702,509 (Pat. No. 9,775,646)	May 1, 2015	DEVICES AND SYSTEMS FOR TREATING THE SKIN USING VACUUM
EDGE.004C6	US	14/702,486 (Pat. No. 9,468,464)	May 1, 2015	METHODS FOR TREATING THE SKIN USING VACUUM
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EDGE.005C2	US	14/698,673 (Pat No. 9,550,052)	Apr. 28, 2015	CONSOLE SYSTEM FOR THE TREATMENT OF SKIN
EDGE.005C3	US	14/698,713 (Pat. No. 9,662,482)	Apr. 28, 2015	METHODS AND SYSTEMS FOR EXTRACTION OF MATERIALS FROM SKIN
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EDGE.005C5	US	15/660,750 (Pat. No. 10/357,641)	Jul. 26, 2017	TIPS FOR SKIN TREATMENT DEVICE
EDGE.005C6	US	15/660,777 (Pat. No. 10/357,642)	Jul. 26, 2017	REMOVABLE TIPS FOR USE WITH SKIN TREATMENT SYSTEMS
EDGE.005C7	**US**	**16/517,268 (*present application*)**	**Jul. 19, 2019**	**DEVICES AND METHODS FOR TREATING SKIN**
EDGE.005C8	US	17/165,820	Feb. 2, 2021	DEVICES AND METHODS FOR TREATING SKIN
EDGE.005C9	US	17/165,807	Feb. 2, 2021	DEVICES AND METHODS FOR TREATING SKIN
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EDGE.044P1C2	US	15/588,102 (Pat. No. 10,556,097)	May 5, 2017	DEVICES FOR TREATING SKIN USING TREATMENT MATERIALS LOCATED ALONG A TIP
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Application No.: 16/517,268
Filing Date: July 19, 2019

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EDGE.047C3	US	16/784,044	Feb. 6, 2020	DEVICES AND METHODS FOR SKIN TREATMENT
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EDGE.050C1	US	09/698,409 (Pat. No. 6,527,783)	Oct. 27, 2000	MICRODERMABRASION AND SUCTION MASSAGE APPARATUS AND METHOD
EDGE.050DV1	US	10/177,173 (Pat. No. 6,673,082)	Jun. 20, 2002	MICRODERMABRASION HANDPIECE WITH SUPPLY AND RETURN LUMENS
EDGE.051A	US	10/315,478 (Pat. No. 6,942,649)	Dec. 10, 2002	MICRODERMABRASION FLUID APPLICATION SYSTEM AND METHOD
EDGE.052A	US	09/699,220 (Pat. No. 6,629,983)	Oct. 27, 2000	APPARATUS AND METHOD FOR SKIN/SURFACE ABRASION
EDGE.065A	US	14/211,089 (Pat. No. 10,238,812)	Mar. 14, 2014	SKIN TREATMENT SYSTEMS AND METHODS USING NEEDLES
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EDGE.077C1	US	15/430,209 (Pat. 10,251,675)	Feb. 10, 2017	DEVICES, SYSTEMS AND METHODS FOR TREATING THE SKIN
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EDGE.077NPC2	US	17/163,128	Jan. 29, 2021	DEVICES, SYSTEMS AND METHODS FOR TREATING THE SKIN
EDGE.077NPC3	US	17/163,199	Jan. 29, 2021	DEVICES, SYSTEMS AND METHODS FOR TREATING THE SKIN
EDGE.077NPC4	US	17/163,237	Jan. 29, 2021	DEVICES, SYSTEMS AND METHODS FOR TREATING THE SKIN
EDGE.077NPC5	US	17/163,240	Jan. 29, 2021	DEVICES, SYSTEMS AND METHODS FOR TREATING THE SKIN
EDGE.090A	US	14/998,375 (Pat. No. 9,498,610)	Dec. 23, 2015	DEVICES AND METHODS FOR TREATING THE SKIN USING A ROLLERBALL OR A WICKING MEMBER
EDGE.090C1	US	15/354,754 (Pat. No. 10,035,007)	Nov. 17, 2016	DEVICES AND METHODS FOR TREATING THE SKIN
EDGE.090C2	US	16/040,397	Jul. 19, 2018	DEVICES AND METHODS FOR TREATING THE SKIN
EDGE.090C3	US	17/164,580	Feb. 1, 2021	DEVICES AND METHODS FOR TREATING THE SKIN
EDGE.090P1	US	15/498,416 (Pat. No. 10,179,229)	Apr. 26, 2017	DEVICES AND METHODS FOR TREATING THE SKIN USING A POROUS MEMBER
EDGE.090P1C1	US	16/246306	Jan. 11, 2019	DEVICES AND METHODS FOR TREATING THE SKIN USING A POROUS MEMBER
EDGE.091A	US	15/204,939	Jul. 7, 2016	DEVICES, SYSTEMS AND METHODS FOR PROMOTING HAIR GROWTH

Copies of these patents and patent applications, including any pending claims, office actions, allowances and/or other communications, are available through PALM and/or PAIR. However, if the Examiner so requests, Applicant will be happy to provide the Examiner with copies of any applications, pending claims, office actions, allowances, communications or any other documents, at any time.

Further, Applicant notes for the record that the claims of the present application are different and may be broader in scope than the claims in any related patent or application. To the extent that any statements made in a related case (such as amendments or characterizations regarding the scope of a claim or prior art) could be construed as a disclaimer of any subject matter supported by the present disclosure, Applicant rescinds and retracts such disclaimer. Accordingly, any listed or referenced prior art may need to be re-visited. Further, any objections or rejections made by the Examiner in the issued and allowed cases identified above may need to be re-visited.

CONCLUSION

Please charge any additional fees, including any fees for additional extension of time, or credit overpayment to Deposit Account No. 11-1410.

Respectfully submitted,

KNOBBE, MARTENS, OLSON & BEAR, LLP

Dated: March 18, 2021

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Theodore G. Papagiannis
Registration No. 61,546
Attorney of Record
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34200699

INFORMATION DISCLOSURE STATEMENT

Inventor	:	Ignon et al.
Appl. No.	:	16/517,268
Filed	:	July 19, 2019
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Examiner	:	Christian D. Knauss
Art Unit	:	3771
Conf. No.	:	9432

Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

References and Listing

Pursuant to 37 CFR 1.56, an Information Disclosure Statement listing references is provided herewith. References numbered 1 to 102, 104 to 277, 284 to 295, 297 to 345, 347 to 384, 386 to 415 and 422 to 476 are of record in U.S. patent application No. 15/660,777, filed July 26, 2017, which is relied upon for an earlier filing date under 35 USC 120. Accordingly, copies of any foreign or non-patent literature references cited in the parent application are not being submitted pursuant to 37 CFR 1.98(d). If the Examiner would like additional information regarding any references or if anything is unclear, the Examiner is invited to contact the undersigned for assistance. Identification herein is not an admission that any of the references are prior art to the above captioned application.

No Disclaimers

To the extent that anything in the Information Disclosure Statement or the listed references could be construed as a disclaimer of any subject matter supported by the present application, Applicant hereby rescinds and retracts such disclaimer.

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Applicant wishes to draw the Examiner's attention to the following co-pending applications of the present application's assignee.

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EDGE.077NPC3	US	17/163,199	Jan. 29, 2021	DEVICES, SYSTEMS AND METHODS FOR TREATING THE SKIN
EDGE.077NPC4	US	17/163,237	Jan. 29, 2021	DEVICES, SYSTEMS AND METHODS FOR TREATING THE SKIN

Attorney Docket No.	Country	App. No. (Pat. No., if appl.)	Filing Date	Title
EDGE.077NPC5	US	17/163,240	Jan. 29, 2021	DEVICES, SYSTEMS AND METHODS FOR TREATING THE SKIN
EDGE.090A	US	14/998,375 (Pat. No. 9,498,610)	Dec. 23, 2015	DEVICES AND METHODS FOR TREATING THE SKIN USING A ROLLERBALL OR A WICKING MEMBER
EDGE.090C1	US	15/354,754 (Pat. No. 10,035,007)	Nov. 17, 2016	DEVICES AND METHODS FOR TREATING THE SKIN
EDGE.090C2	US	16/040,397	Jul. 19, 2018	DEVICES AND METHODS FOR TREATING THE SKIN
EDGE.090C3	US	17/164,580	Feb. 1, 2021	DEVICES AND METHODS FOR TREATING THE SKIN
EDGE.090P1	US	15/498,416 (Pat. No. 10,179,229)	Apr. 26, 2017	DEVICES AND METHODS FOR TREATING THE SKIN USING A POROUS MEMBER
EDGE.090P1C1	US	16/246306	Jan. 11, 2019	DEVICES AND METHODS FOR TREATING THE SKIN USING A POROUS MEMBER
EDGE.091A	US	15/204,939	Jul. 7, 2016	DEVICES, SYSTEMS AND METHODS FOR PROMOTING HAIR GROWTH

Timing of Disclosure

This Information Disclosure Statement is being filed before the receipt of a First Office Action on the merits, and presumably no fee is required. If a First Office Action on the merits was mailed before the mailing date of this Statement, the Commissioner is authorized to charge the fee set forth in 37 CFR 1.17(p) to Deposit Account No. 11-1410.

Respectfully submitted,

KNOBBE, MARTENS, OLSON & BEAR, LLP

Dated: March 18, 2021

By: :/Theodore G. Papagiannis/
Theodore G. Papagiannis
Registration No. 61,546
Registered Practitioner
(949) 760-0404

34629131

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
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Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
16/517,268	07/19/2019	Roger Ignon	EDGE.005C7

CONFIRMATION NO. 9432

20995
KNOBBE MARTENS OLSON & BEAR LLP
2040 MAIN STREET
FOURTEENTH FLOOR
IRVINE, CA 92614

PUBLICATION NOTICE

OC000000112480124

Title:DEVICES AND METHODS FOR TREATING SKIN

Publication No.US-2019-0336740-A1
Publication Date:11/07/2019

NOTICE OF PUBLICATION OF APPLICATION

The above-identified application will be electronically published as a patent application publication pursuant to 37 CFR 1.211, et seq. The patent application publication number and publication date are set forth above.

The publication may be accessed through the USPTO's publically available Searchable Databases via the Internet at www.uspto.gov. The direct link to access the publication is currently http://www.uspto.gov/patft/.

The publication process established by the Office does not provide for mailing a copy of the publication to applicant. A copy of the publication may be obtained from the Office upon payment of the appropriate fee set forth in 37 CFR 1.19(a)(1). Orders for copies of patent application publications are handled by the USPTO's Public Records Division. The Public Records Division can be reached by telephone at (571) 272-3150 or (800) 972-6382, by facsimile at (571) 273-3250, by mail addressed to the United States Patent and Trademark Office, Public Records Division, Alexandria, VA 22313-1450 or via the Internet.

In addition, information on the status of the application, including the mailing date of Office actions and the dates of receipt of correspondence filed in the Office, may also be accessed via the Internet through the Patent Electronic Business Center at www.uspto.gov using the public side of the Patent Application Information and Retrieval (PAIR) system. The direct link to access this status information is currently https://portal.uspto.gov/pair/PublicPair. Prior to publication, such status information is confidential and may only be obtained by applicant using the private side of PAIR.

Further assistance in electronically accessing the publication, or about PAIR, is available by calling the Patent Electronic Business Center at 1-866-217-9197.

Office of Data Managment, Application Assistance Unit (571) 272-4000, or (571) 272-4200, or 1-888-786-0101

PATENT APPLICATION FEE DETERMINATION RECORD

Substitute for Form PTO-875

Application or Docket Number: 16/517,268

APPLICATION AS FILED - PART I

FOR	(Column 1) NUMBER FILED	(Column 2) NUMBER EXTRA	SMALL ENTITY RATE($)	SMALL ENTITY FEE($)	OR	OTHER THAN SMALL ENTITY RATE($)	OTHER THAN SMALL ENTITY FEE($)
BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A	N/A	75		N/A	
SEARCH FEE (37 CFR 1.16(k), (i), or (m))	N/A	N/A	N/A	330		N/A	
EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A	N/A	380		N/A	
TOTAL CLAIMS (37 CFR 1.16(i))	1 minus 20 =	*	x 50 =	0.00	OR		
INDEPENDENT CLAIMS (37 CFR 1.16(h))	1 minus 3 =	*	x 230 =	0.00			
APPLICATION SIZE FEE (37 CFR 1.16(s))	If the specification and drawings exceed 100 sheets of paper, the application size fee due is $310 ($155 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).			0.00			
MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))				0.00			
* If the difference in column 1 is less than zero, enter "0" in column 2.			TOTAL	785		TOTAL	

APPLICATION AS AMENDED - PART II

		(Column 1) CLAIMS REMAINING AFTER AMENDMENT		(Column 2) HIGHEST NUMBER PREVIOUSLY PAID FOR	(Column 3) PRESENT EXTRA	SMALL ENTITY RATE($)	SMALL ENTITY ADDITIONAL FEE($)	OR	OTHER THAN SMALL ENTITY RATE($)	OTHER THAN SMALL ENTITY ADDITIONAL FEE($)
AMENDMENT A	Total (37 CFR 1.16(i))	*	Minus	**	=	x =		OR	x =	
	Independent (37 CFR 1.16(h))	*	Minus	***	=	x =		OR	x =	
	Application Size Fee (37 CFR 1.16(s))									
	FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))							OR		
						TOTAL ADD'L FEE		OR	TOTAL ADD'L FEE	

		(Column 1) CLAIMS REMAINING AFTER AMENDMENT		(Column 2) HIGHEST NUMBER PREVIOUSLY PAID FOR	(Column 3) PRESENT EXTRA	RATE($)	ADDITIONAL FEE($)	OR	RATE($)	ADDITIONAL FEE($)
AMENDMENT B	Total (37 CFR 1.16(i))	*	Minus	**	=	x =		OR	x =	
	Independent (37 CFR 1.16(h))	*	Minus	***	=	x =		OR	x =	
	Application Size Fee (37 CFR 1.16(s))									
	FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))							OR		
						TOTAL ADD'L FEE		OR	TOTAL ADD'L FEE	

* If the entry in column 1 is less than the entry in column 2, write "0" in column 3.

** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20".

*** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3".

The "Highest Number Previously Paid For" (Total or Independent) is the highest found in the appropriate box in column 1.

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APPLICATION NUMBER	FILING or 371(c) DATE	GRP ART UNIT	FIL FEE REC'D	ATTY.DOCKET.NO	TOT CLAIMS	IND CLAIMS
16/517,268	07/19/2019		785	EDGE.005C7	1	1

CONFIRMATION NO. 9432

FILING RECEIPT

20995
KNOBBE MARTENS OLSON & BEAR LLP
2040 MAIN STREET
FOURTEENTH FLOOR
IRVINE, CA 92614

OC000000110096827

Date Mailed: 08/02/2019

Receipt is acknowledged of this non-provisional utility patent application. The application will be taken up for examination in due course. Applicant will be notified as to the results of the examination. Any correspondence concerning the application must include the following identification information: the U.S. APPLICATION NUMBER, FILING DATE, NAME OF FIRST INVENTOR, and TITLE OF INVENTION. Fees transmitted by check or draft are subject to collection.

Please verify the accuracy of the data presented on this receipt. If an error is noted on this Filing Receipt, please submit a written request for a corrected Filing Receipt, including a properly marked-up ADS showing the changes with strike-through for deletions and underlining for additions. If you received a "Notice to File Missing Parts" or other Notice requiring a response for this application, please submit any request for correction to this Filing Receipt with your reply to the Notice. When the USPTO processes the reply to the Notice, the USPTO will generate another Filing Receipt incorporating the requested corrections provided that the request is grantable.

Inventor(s)

Roger Ignon, Redondo Beach, CA;
Scott Mallett, Coto De Caza, CA;
Abraham Solano, Corona, CA;
William Cohen, Los Alamitos, CA;

Applicant(s)

EDGE SYSTEMS LLC, Signal Hill, CA;

Power of Attorney: None

Domestic Priority data as claimed by applicant

This application is a CON of 15/660,750 07/26/2017 PAT 10357641
which is a CON of 14/700,789 04/30/2015 PAT 9814868
which is a CON of 13/267,554 10/06/2011 PAT 9474886
which is a CON of 11/392,348 03/29/2006 PAT 8048089
which claims benefit of 60/755,310 12/30/2005
and claims benefit of 60/764,668 02/02/2006

Foreign Applications for which priority is claimed (You may be eligible to benefit from the **Patent Prosecution Highway** program at the USPTO. Please see http://www.uspto.gov for more information.) - None.
Foreign application information must be provided in an Application Data Sheet in order to constitute a claim to foreign priority. See 37 CFR 1.55 and 1.76.

Permission to Access Application via Priority Document Exchange: Yes

Permission to Access Search Results: Yes

Applicant may provide or rescind an authorization for access using Form PTO/SB/39 or Form PTO/SB/69 as appropriate.

If Required, Foreign Filing License Granted: 08/01/2019

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US 16/517,268**

Projected Publication Date: 11/07/2019

Non-Publication Request: No

Early Publication Request: No
**** SMALL ENTITY ****
Title

DEVICES AND METHODS FOR TREATING SKIN

Preliminary Class

Statement under 37 CFR 1.55 or 1.78 for AIA (First Inventor to File) Transition Applications: No

PROTECTING YOUR INVENTION OUTSIDE THE UNITED STATES

Since the rights granted by a U.S. patent extend only throughout the territory of the United States and have no effect in a foreign country, an inventor who wishes patent protection in another country must apply for a patent in a specific country or in regional patent offices. Applicants may wish to consider the filing of an international application under the Patent Cooperation Treaty (PCT). An international (PCT) application generally has the same effect as a regular national patent application in each PCT-member country. The PCT process **simplifies** the filing of patent applications on the same invention in member countries, but **does not result** in a grant of "an international patent" and does not eliminate the need of applicants to file additional documents and fees in countries where patent protection is desired.

Almost every country has its own patent law, and a person desiring a patent in a particular country must make an application for patent in that country in accordance with its particular laws. Since the laws of many countries differ in various respects from the patent law of the United States, applicants are advised to seek guidance from specific foreign countries to ensure that patent rights are not lost prematurely.

Applicants also are advised that in the case of inventions made in the United States, the Director of the USPTO must issue a license before applicants can apply for a patent in a foreign country. The filing of a U.S. patent application serves as a request for a foreign filing license. The application's filing receipt contains further information and guidance as to the status of applicant's license for foreign filing.

Applicants may wish to consult the USPTO booklet, "General Information Concerning Patents" (specifically, the section entitled "Treaties and Foreign Patents") for more information on timeframes and deadlines for filing foreign patent applications. The guide is available either by contacting the USPTO Contact Center at 800-786-9199, or it can be viewed on the USPTO website at http://www.uspto.gov/web/offices/pac/doc/general/index.html.

For information on preventing theft of your intellectual property (patents, trademarks and copyrights), you may wish to consult the U.S. Government website, http://www.stopfakes.gov. Part of a Department of Commerce initiative, this website includes self-help "toolkits" giving innovators guidance on how to protect intellectual property in specific countries such as China, Korea and Mexico. For questions regarding patent enforcement issues, applicants may call the U.S. Government hotline at 1-866-999-HALT (1-866-999-4258).

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Title 35, United States Code, Section 184

Title 37, Code of Federal Regulations, 5.11 & 5.15

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The applicant has been granted a license under 35 U.S.C. 184, if the phrase "IF REQUIRED, FOREIGN FILING LICENSE GRANTED" followed by a date appears on this form. Such licenses are issued in all applications where the conditions for issuance of a license have been met, regardless of whether or not a license may be required as set forth in 37 CFR 5.15. The scope and limitations of this license are set forth in 37 CFR 5.15(a) unless an earlier license has been issued under 37 CFR 5.15(b). The license is subject to revocation upon written notification. The date indicated is the effective date of the license, unless an earlier license of similar scope has been granted under 37 CFR 5.13 or 5.14.

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No license under 35 U.S.C. 184 has been granted at this time, if the phrase "IF REQUIRED, FOREIGN FILING LICENSE GRANTED" DOES NOT appear on this form. Applicant may still petition for a license under 37 CFR 5.12, if a license is desired before the expiration of 6 months from the filing date of the application. If 6 months has lapsed from the filing date of this application and the licensee has not received any indication of a secrecy order under 35 U.S.C. 181, the licensee may foreign file the application pursuant to 37 CFR 5.15(b).

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Application Data Sheet 37 CFR 1.76	Attorney Docket Number	EDGE.005C7
	Application Number	
Title of Invention	DEVICES AND METHODS FOR TREATING SKIN	

The application data sheet is part of the provisional or nonprovisional application for which it is being submitted. The following form contains the bibliographic data arranged in a format specified by the United States Patent and Trademark Office as outlined in 37 CFR 1.76.
This document may be completed electronically and submitted to the Office in electronic format using the Electronic Filing System (EFS) or the document may be printed and included in a paper filed application.

Secrecy Order 37 CFR 5.2:

☐ Portions or all of the application associated with this Application Data Sheet may fall under a Secrecy Order pursuant to 37 CFR 5.2 (Paper filers only. Applications that fall under Secrecy Order may not be filed electronically.)

Inventor Information:

Inventor 1 Remove

Legal Name

Prefix	Given Name	Middle Name	Family Name	Suffix
	Roger		Ignon	

Residence Information (Select One) ● US Residency Non US Residency Active US Military Service

City	Redondo Beach	State/Province	CA	Country of Residence	US

Mailing Address of Inventor:

Address 1	843 Avenue C		
Address 2			
City	Redondo Beach	State/Province	CA
Postal Code	90277	Country	US

Inventor 2 Remove

Legal Name

Prefix	Given Name	Middle Name	Family Name	Suffix
	Scott		Mallett	

Residence Information (Select One) ◉ US Residency Non US Residency Active US Military Service

City	Coto De Caza	State/Province	CA	Country of Residence	US

Mailing Address of Inventor:

Address 1	31682 Via Patito		
Address 2			
City	Coto De Caza	State/Province	CA
Postal Code	92679	Country	US

Inventor 3 Remove

Legal Name

Prefix	Given Name	Middle Name	Family Name	Suffix
	Abraham		Solano	

Residence Information (Select One) ◉ US Residency Non US Residency Active US Military Service

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Application Data Sheet 37 CFR 1.76	Attorney Docket Number	EDGE.005C7
	Application Number	
Title of Invention	DEVICES AND METHODS FOR TREATING SKIN	

City	Corona	State/Province	CA	Country of Residence	US

Mailing Address of Inventor:

Address 1	11 Summerwood Ct., #F		
Address 2			
City	Corona	State/Province	CA
Postal Code	92880	Country	US

Inventor 4 Remove

Legal Name

Prefix	Given Name	Middle Name	Family Name	Suffix
	William		Cohen	

Residence Information (Select One) ◉ US Residency ○ Non US Residency ○ Active US Military Service

City	Los Alamitos	State/Province	CA	Country of Residence	US

Mailing Address of Inventor:

Address 1	3922 Toland Circle		
Address 2			
City	Los Alamitos	State/Province	CA
Postal Code	90720	Country	US

All Inventors Must Be Listed - Additional Inventor Information blocks may be generated within this form by selecting the **Add** button. Add

Correspondence Information:

Enter either Customer Number or complete the Correspondence Information section below.
For further information see 37 CFR 1.33(a).

☐ **An Address is being provided for the correspondence Information of this application.**

Customer Number	20995		
Email Address	efiling@knobbe.com	Add Email	Remove Email

Application Information:

Title of the Invention	DEVICES AND METHODS FOR TREATING SKIN		
Attorney Docket Number	EDGE.005C7	Small Entity Status Claimed	☒
Application Type	Nonprovisional		
Subject Matter	Utility		
Total Number of Drawing Sheets (if any)	25	Suggested Figure for Publication (if any)	

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Application Data Sheet 37 CFR 1.76	Attorney Docket Number	EDGE.005C7
	Application Number	
Title of Invention	DEVICES AND METHODS FOR TREATING SKIN	

Filing By Reference:

Only complete this section when filing an application by reference under 35 U.S.C. 111(c) and 37 CFR 1.57(a). Do not complete this section if application papers including a specification and any drawings are being filed. Any domestic benefit or foreign priority information must be provided in the appropriate section(s) below (i.e., "Domestic Benefit/National Stage Information" and "Foreign Priority Information").

For the purposes of a filing date under 37 CFR 1.53(b), the description and any drawings of the present application are replaced by this reference to the previously filed application, subject to conditions and requirements of 37 CFR 1.57(a).

Application number of the previously filed application	Filing date (YYYY-MM-DD)	Intellectual Property Authority or Country

Publication Information:

☐ Request Early Publication (Fee required at time of Request 37 CFR 1.219)

☐ **Request Not to Publish.** I hereby request that the attached application not be published under 35 U.S.C. 122(b) and certify that the invention disclosed in the attached application **has not and will not** be the subject of an application filed in another country, or under a multilateral international agreement, that requires publication at eighteen months after filing.

Representative Information:

Representative information should be provided for all practitioners having a power of attorney in the application. Providing this information in the Application Data Sheet does not constitute a power of attorney in the application (see 37 CFR 1.32).
Either enter Customer Number or complete the Representative Name section below. If both sections are completed the customer Number will be used for the Representative Information during processing.

Please Select One:	● Customer Number	US Patent Practitioner	○ Limited Recognition (37 CFR 11.9)
Customer Number	20995		

Domestic Benefit/National Stage Information:

This section allows for the applicant to either claim benefit under 35 U.S.C. 119(e), 120, 121, 365(c), or 386(c) or indicate National Stage entry from a PCT application. Providing benefit claim information in the Application Data Sheet constitutes the specific reference required by 35 U.S.C. 119(e) or 120, and 37 CFR 1.78.
When referring to the current application, please leave the "Application Number" field blank.

Prior Application Status	Pending		Remove
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)
	Continuation of	15/660750	2017-07-26

PTO/AIA/14 (02-18)
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U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
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Application Data Sheet 37 CFR 1.76	Attorney Docket Number	EDGE.005C7
	Application Number	
Title of Invention	DEVICES AND METHODS FOR TREATING SKIN	

Prior Application Status	Patented				Remove
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)	Patent Number	Issue Date (YYYY-MM-DD)
15/660750	Continuation of	14/700789	2015-04-30	9814868	2017-11-14
Prior Application Status	Patented				Remove
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)	Patent Number	Issue Date (YYYY-MM-DD)
14/700789	Continuation of	13/267554	2011-10-06	9474886	2016-10-25
Prior Application Status	Patented				Remove
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)	Patent Number	Issue Date (YYYY-MM-DD)
13/267554	Continuation of	11/392348	2006-03-29	8048089	2011-11-01
Prior Application Status	Expired				Remove
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)		
11/392348	Claims benefit of provisional	60/755310	2005-12-30		
Prior Application Status	Expired				Remove
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)		
11/392348	Claims benefit of provisional	60/764668	2006-02-02		

Additional Domestic Benefit/National Stage Data may be generated within this form by selecting the **Add** button. Add

Foreign Priority Information:

This section allows for the applicant to claim priority to a foreign application. Providing this information in the application data sheet constitutes the claim for priority as required by 35 U.S.C. 119(b) and 37 CFR 1.55. When priority is claimed to a foreign application that is eligible for retrieval under the priority document exchange program (PDX)[i] the information will be used by the Office to automatically attempt retrieval pursuant to 37 CFR 1.55(i)(1) and (2). Under the PDX program, applicant bears the ultimate responsibility for ensuring that a copy of the foreign application is received by the Office from the participating foreign intellectual property office, or a certified copy of the foreign priority application is filed, within the time period specified in 37 CFR 1.55(g)(1).

Remove

Application Number	Country[i]	Filing Date (YYYY-MM-DD)	Access Code[i] (if applicable)

Additional Foreign Priority Data may be generated within this form by selecting the **Add** button. Add

PTO/AIA/14 (02-18)
Approved for use through 11/30/2020. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
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Application Data Sheet 37 CFR 1.76	Attorney Docket Number	EDGE.005C7
	Application Number	
Title of Invention	DEVICES AND METHODS FOR TREATING SKIN	

Statement under 37 CFR 1.55 or 1.78 for AIA (First Inventor to File) Transition Applications

☐ This application (1) claims priority to or the benefit of an application filed before March 16, 2013 and (2) also contains, or contained at any time, a claim to a claimed invention that has an effective filing date on or after March 16, 2013.
NOTE: By providing this statement under 37 CFR 1.55 or 1.78, this application, with a filing date on or after March 16, 2013, will be examined under the first inventor to file provisions of the AIA.

PTO/AIA/14 (02-18)
Approved for use through 11/30/2020. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
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Application Data Sheet 37 CFR 1.76	Attorney Docket Number	EDGE.005C7
	Application Number	
Title of Invention	DEVICES AND METHODS FOR TREATING SKIN	

Authorization or Opt-Out of Authorization to Permit Access:

When this Application Data Sheet is properly signed and filed with the application, applicant has provided written authority to permit a participating foreign intellectual property (IP) office access to the instant application-as-filed (see paragraph A in subsection 1 below) and the European Patent Office (EPO) access to any search results from the instant application (see paragraph B in subsection 1 below).

Should applicant choose not to provide an authorization identified in subsection 1 below, applicant **must opt-out** of the authorization by checking the corresponding box A or B or both in subsection 2 below.

NOTE: This section of the Application Data Sheet is **ONLY** reviewed and processed with the **INITIAL** filing of an application. After the initial filing of an application, an Application Data Sheet cannot be used to provide or rescind authorization for access by a foreign IP office(s). Instead, Form PTO/SB/39 or PTO/SB/69 must be used as appropriate.

1. Authorization to Permit Access by a Foreign Intellectual Property Office(s)

A. Priority Document Exchange (PDX) - Unless box A in subsection 2 (opt-out of authorization) is checked, the undersigned hereby **grants the USPTO authority** to provide the European Patent Office (EPO), the Japan Patent Office (JPO), the Korean Intellectual Property Office (KIPO), the State Intellectual Property Office of the People's Republic of China (SIPO), the World Intellectual Property Organization (WIPO), and any other foreign intellectual property office participating with the USPTO in a bilateral or multilateral priority document exchange agreement in which a foreign application claiming priority to the instant patent application is filed, access to: (1) the instant patent application-as-filed and its related bibliographic data, (2) any foreign or domestic application to which priority or benefit is claimed by the instant application and its related bibliographic data, and (3) the date of filing of this Authorization. See 37 CFR 1.14(h)(1).

B. Search Results from U.S. Application to EPO - Unless box B in subsection 2 (opt-out of authorization) is checked, the undersigned hereby **grants the USPTO authority** to provide the EPO access to the bibliographic data and search results from the instant patent application when a European patent application claiming priority to the instant patent application is filed. See 37 CFR 1.14(h)(2).

The applicant is reminded that the EPO's Rule 141(1) EPC (European Patent Convention) requires applicants to submit a copy of search results from the instant application without delay in a European patent application that claims priority to the instant application.

2. Opt-Out of Authorizations to Permit Access by a Foreign Intellectual Property Office(s)

☐ A. Applicant **DOES NOT** authorize the USPTO to permit a participating foreign IP office access to the instant application-as-filed. If this box is checked, the USPTO will not be providing a participating foreign IP office with any documents and information identified in subsection 1A above.

☐ B. Applicant **DOES NOT** authorize the USPTO to transmit to the EPO any search results from the instant patent application. If this box is checked, the USPTO will not be providing the EPO with search results from the instant application.

NOTE: Once the application has published or is otherwise publicly available, the USPTO may provide access to the application in accordance with 37 CFR 1.14.

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Application Data Sheet 37 CFR 1.76	Attorney Docket Number	EDGE.005C7
	Application Number	
Title of Invention	DEVICES AND METHODS FOR TREATING SKIN	

Applicant Information:

Providing assignment information in this section does not substitute for compliance with any requirement of part 3 of Title 37 of CFR to have an assignment recorded by the Office.

Applicant 1 Remove

If the applicant is the inventor (or the remaining joint inventor or inventors under 37 CFR 1.45), this section should not be completed. The information to be provided in this section is the name and address of the legal representative who is the applicant under 37 CFR 1.43; or the name and address of the assignee, person to whom the inventor is under an obligation to assign the invention, or person who otherwise shows sufficient proprietary interest in the matter who is the applicant under 37 CFR 1.46. If the applicant is an applicant under 37 CFR 1.46 (assignee, person to whom the inventor is obligated to assign, or person who otherwise shows sufficient proprietary interest) together with one or more joint inventors, then the joint inventor or inventors who are also the applicant should be identified in this section.

Clear

● Assignee	Legal Representative under 35 U.S.C. 117	Joint Inventor
Person to whom the inventor is obligated to assign.	Person who shows sufficient proprietary interest	

If applicant is the legal representative, indicate the authority to file the patent application, the inventor is:

Name of the Deceased or Legally Incapacitated Inventor:

If the Applicant is an Organization check here. ☒

Organization Name	EDGE SYSTEMS LLC		
Mailing Address Information For Applicant:			
Address 1	2277 Redondo Avenue		
Address 2			
City	Signal Hill	**State/Province**	CA
Country	US	Postal Code	90755
Phone Number		Fax Number	
Email Address			

Additional Applicant Data may be generated within this form by selecting the Add button. Add

Assignee Information including Non-Applicant Assignee Information:

Providing assignment information in this section does not substitute for compliance with any requirement of part 3 of Title 37 of CFR to have an assignment recorded by the Office.

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Application Data Sheet 37 CFR 1.76	Attorney Docket Number	EDGE.005C7
	Application Number	
Title of Invention	DEVICES AND METHODS FOR TREATING SKIN	

Assignee 1

Complete this section if assignee information, including non-applicant assignee information, is desired to be included on the patent application publication. An assignee-applicant identified in the "Applicant Information" section will appear on the patent application publication as an applicant. For an assignee-applicant, complete this section only if identification as an assignee is also desired on the patent application publication.

Remove

If the Assignee or Non-Applicant Assignee is an Organization check here. ☐

Prefix	**Given Name**	Middle Name	**Family Name**	Suffix

Mailing Address Information For Assignee including Non-Applicant Assignee:

Address 1			
Address 2			
City		**State/Province**	
Country i		Postal Code	
Phone Number		Fax Number	
Email Address			

Additional Assignee or Non-Applicant Assignee Data may be generated within this form by selecting the Add button. Add

Signature:

Remove

NOTE: This Application Data Sheet must be signed in accordance with 37 CFR 1.33(b). **However, if this Application Data Sheet is submitted with the INITIAL filing of the application and either box A or B is not checked in subsection 2 of the "Authorization or Opt-Out of Authorization to Permit Access" section, then this form must also be signed in accordance with 37 CFR 1.14(c).**

This Application Data Sheet **must** be signed by a patent practitioner if one or more of the applicants is a **juristic entity** (e.g., corporation or association). If the applicant is two or more joint inventors, this form must be signed by a patent practitioner, **all** joint inventors who are the applicant, or one or more joint inventor-applicants who have been given power of attorney (e.g., see USPTO Form PTO/AIA/81) on behalf of **all** joint inventor-applicants.

See 37 CFR 1.4(d) for the manner of making signatures and certifications.

Signature	/Theodore G. Papagiannis/			Date (YYYY-MM-DD)	2019-07-19
First Name	Theodore G.	Last Name	Papagiannis	Registration Number	61,546

Additional Signature may be generated within this form by selecting the Add button. Add

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Application Data Sheet 37 CFR 1.76	Attorney Docket Number	EDGE.005C7
	Application Number	
Title of Invention	DEVICES AND METHODS FOR TREATING SKIN	

This collection of information is required by 37 CFR 1.76. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 23 minutes to complete, including gathering, preparing, and submitting the completed application data sheet form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

Privacy Act Statement

The Privacy Act of 1974 (P.L. 93-579) requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1 The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether the Freedom of Information Act requires disclosure of these records.

2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.

3 A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.

4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).

5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent CooperationTreaty.

6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).

7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.

8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspections or an issued patent.

9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

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DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1.76)

Title of Invention	TIP WITH EMBEDDED MATERIALS FOR SKIN TREATMENT

As the below named inventor, I hereby declare that:

This declaration is directed to:

☐ The attached application, or

☒ United States application or PCT international application number 14/700,789

filed on April 30, 2015.

The above-identified application was made or authorized to be made by me.

I believe that I am the original inventor or an original joint inventor of a claimed invention in the application.

I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.

WARNING:

Petitioner/applicant is cautioned to avoid submitting personal information in documents filed in a patent application that may contribute to identity theft. Personal information such as social security numbers, bank account numbers, or credit card numbers (other than a check or credit card authorization form PTO-2038 submitted for payment purposes) is never required by the USPTO to support a petition or an application. If this type of personal information is included in documents submitted to the USPTO, petitioners/applicants should consider redacting such personal information from the documents before submitting them to the USPTO. Petitioner/applicant is advised that the record of a patent application is available to the public after publication of the application (unless a non-publication request in compliance with 37 CFR 1.213(a) is made in the application) or issuance of a patent. Furthermore, the record from an abandoned application may also be available to the public if the application is referenced in a published application or an issued patent (see 37 CFR 1.14). Checks and credit card authorization forms PTO-2038 submitted for payment purposes are not retained in the application file and therefore are not publicly available.

LEGAL NAME OF INVENTOR

Inventor: Roger Ignon Date (Optional): 10/11/16

Signature: _____

Note: An application data sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form or must have been previously filed. Use an additional PTO/AIA/01 form for each additional inventor.

This collection of information is required by 35 U.S.C. 115 and 37 CFR 1.63. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 1 minute to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

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This declaration is directed to:

☐ The attached application, or

☒ United States application or PCT international application number 14/700,789 filed on April 30, 2015.

The above-identified application was made or authorized to be made by me.

I believe that I am the original inventor or an original joint inventor of a claimed invention in the application.

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LEGAL NAME OF INVENTOR

Inventor: Scott Mallett Date (Optional): 9.23.16

Signature: Scott Mallett

Note: An application data sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form or must have been previously filed. Use an additional PTO/AIA/01 form for each additional inventor.

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LEGAL NAME OF INVENTOR

Inventor: Abraham Solano Date (Optional): _____

Signature: _____

Note: An application data sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form or must have been previously filed. Use an additional PTO/AIA/01 form for each additional inventor.

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WARNING:

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LEGAL NAME OF INVENTOR

Inventor: William Cohen Date (Optional): 10.7.16

Signature: William Cohen

Note: An application data sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form or must have been previously filed. Use an additional PTO/AIA/01 form for each additional inventor.

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The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether disclosure of these records is required by the Freedom of Information Act.
2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
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6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (*i.e.*, GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspection or an issued patent.
9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

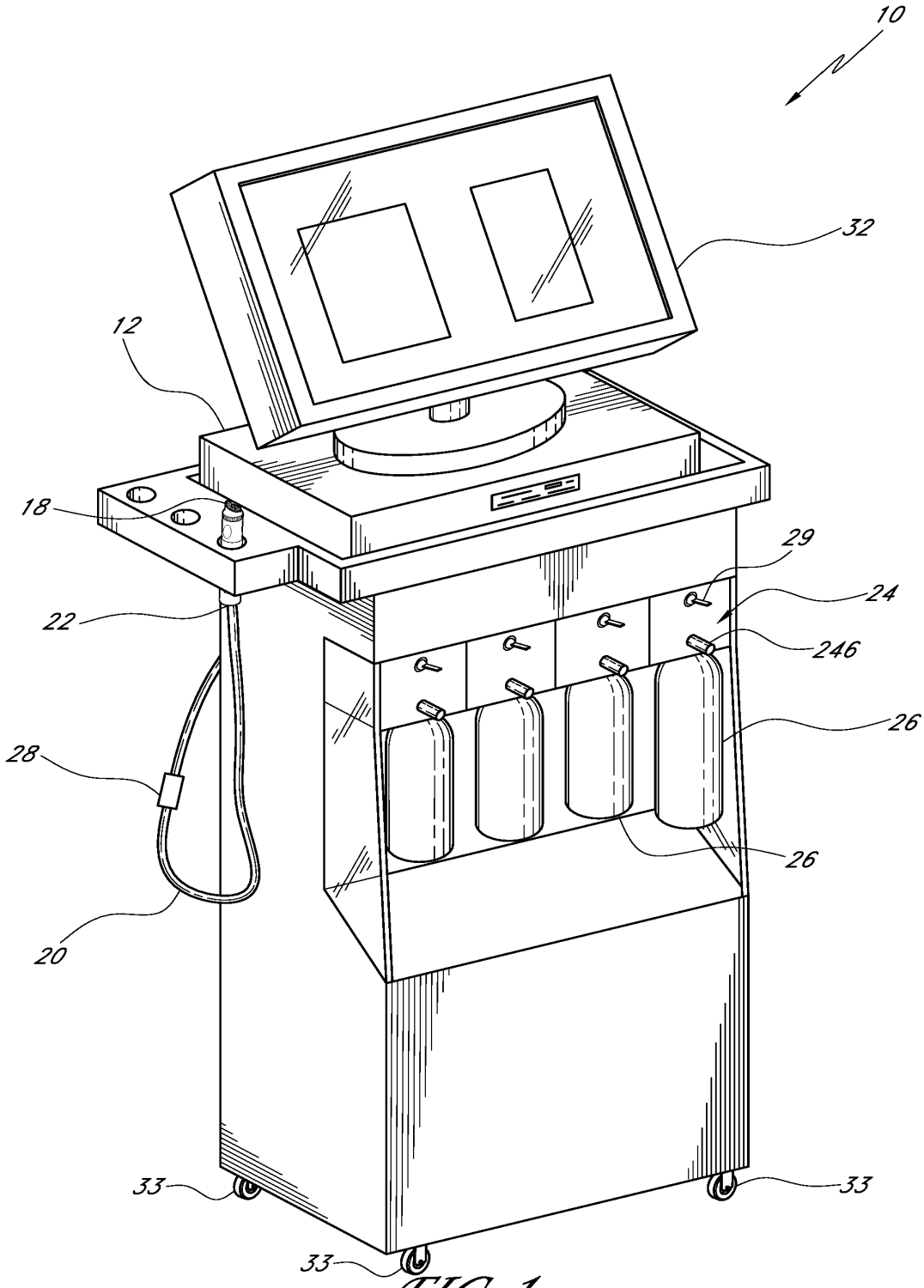


FIG. 1

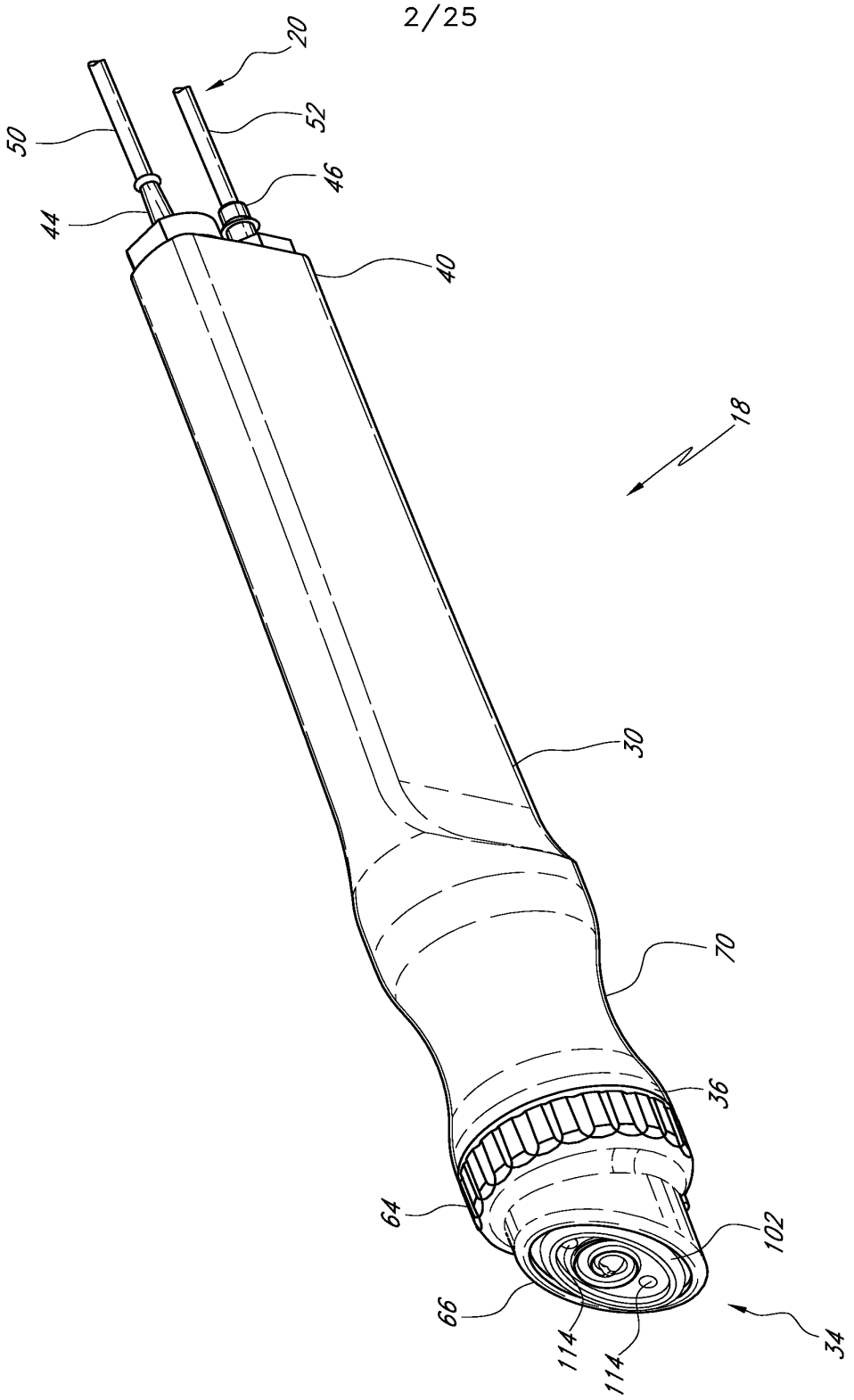


FIG. 2A

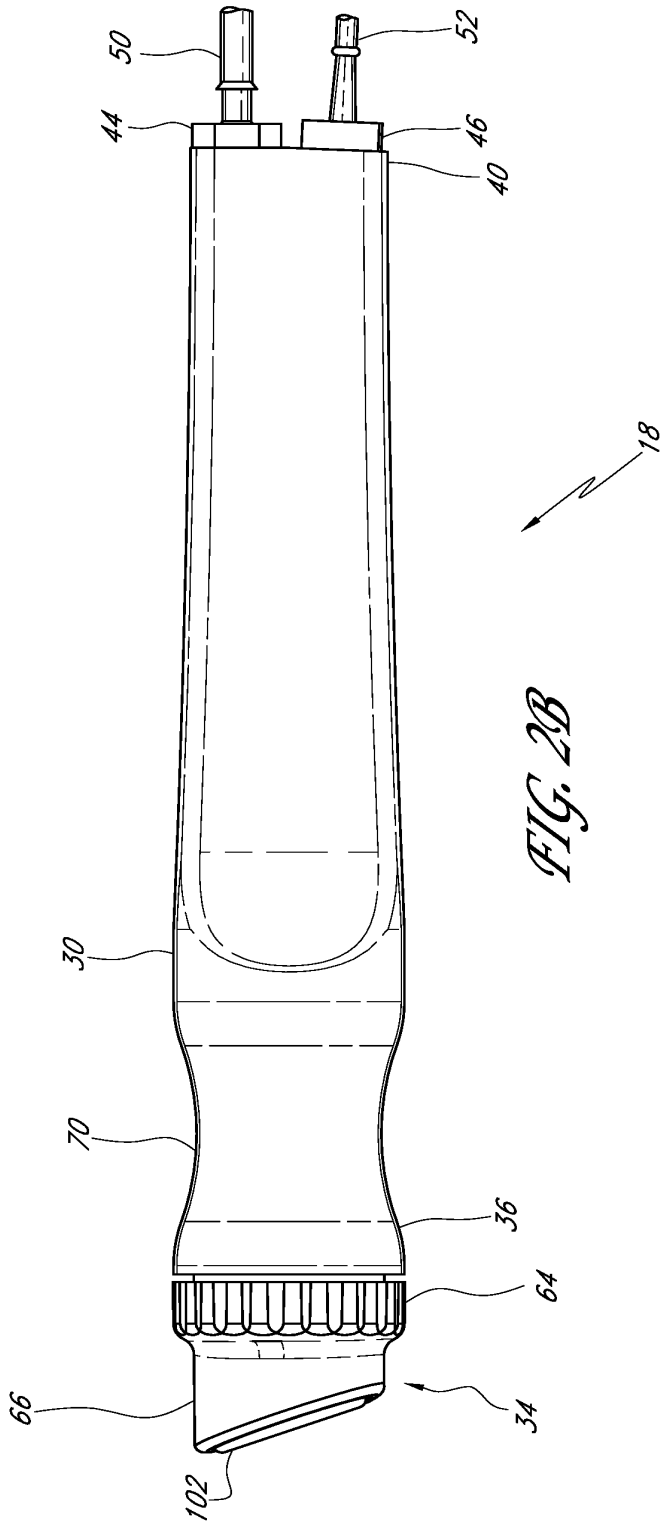


FIG. 2B

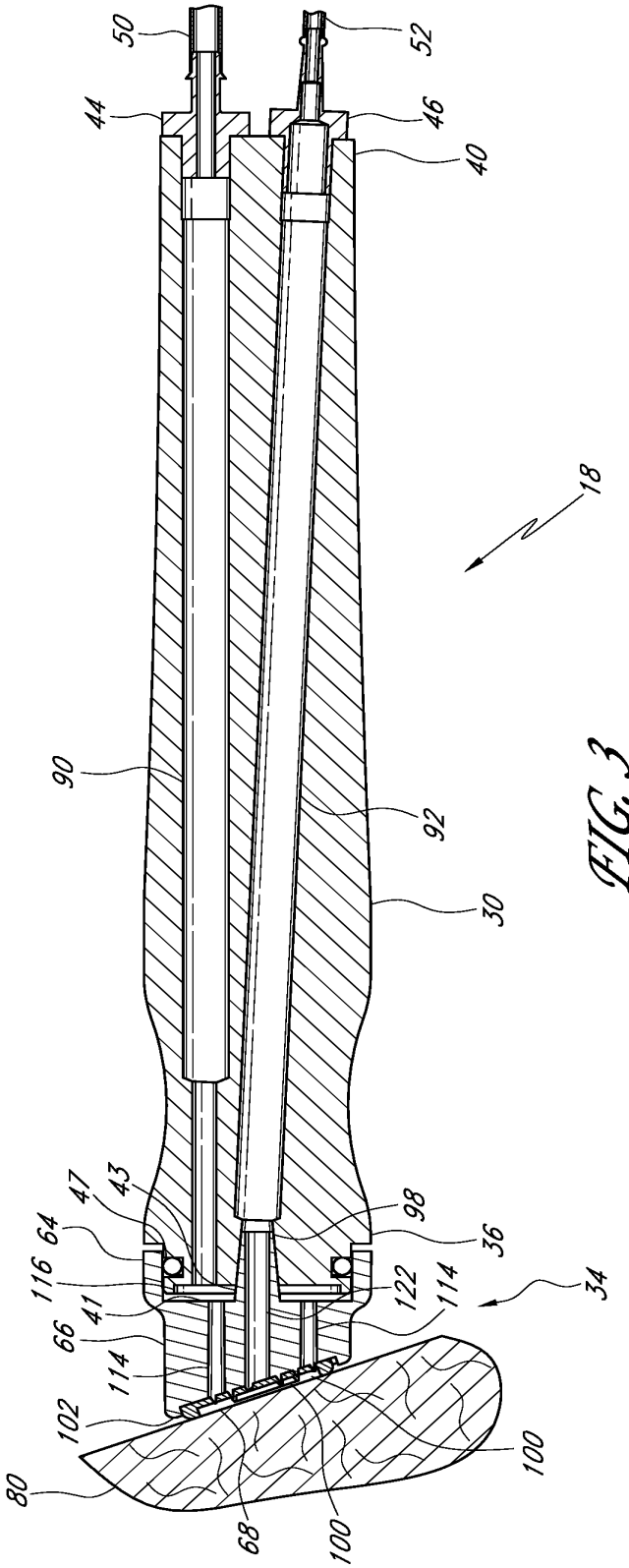

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100

FIG. 3

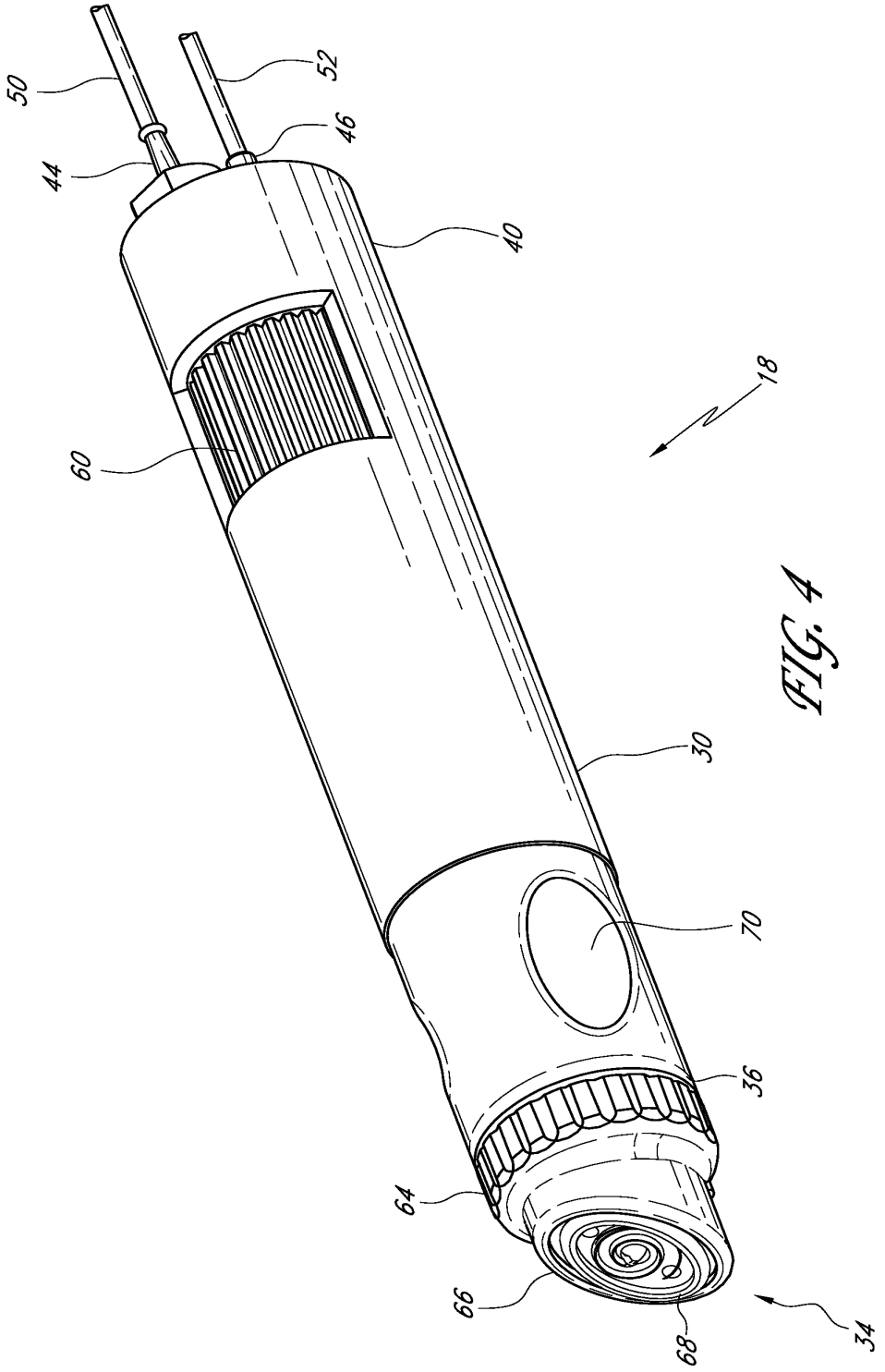


FIG. 4

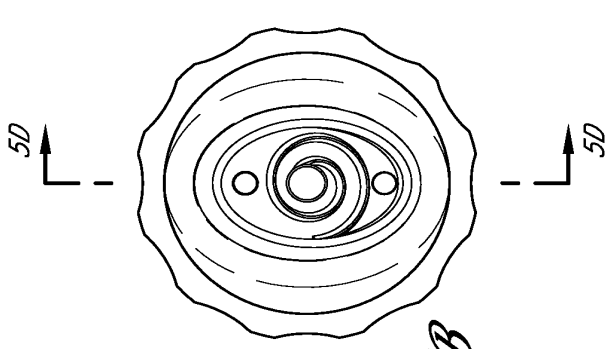


FIG. 5B

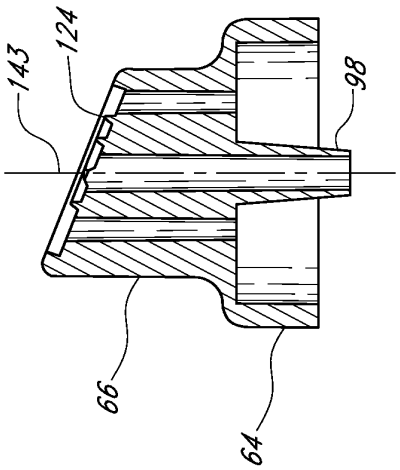


FIG. 5D

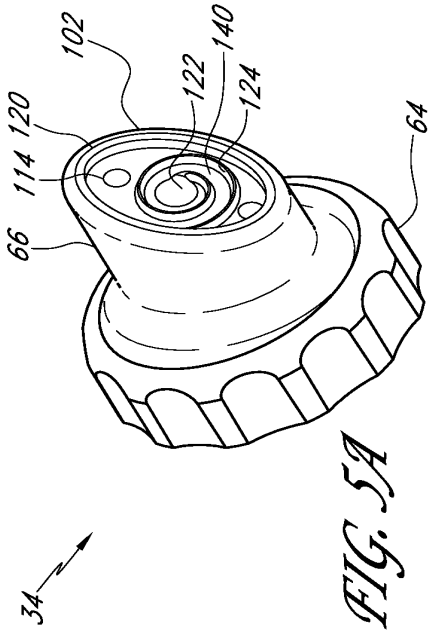


FIG. 5A

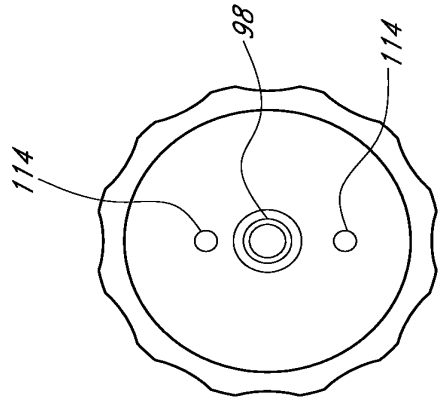


FIG. 5C

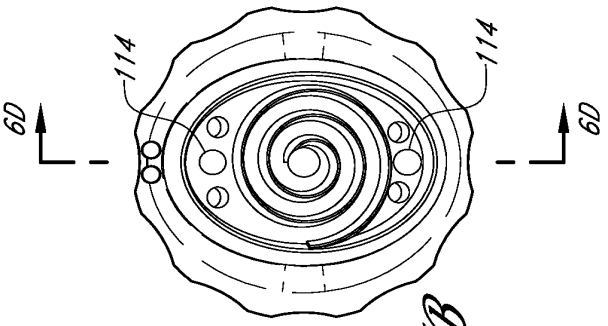


FIG. 6B

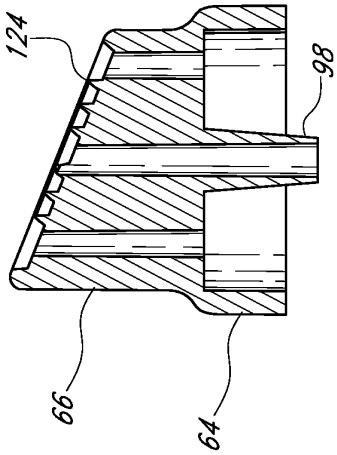


FIG. 6D

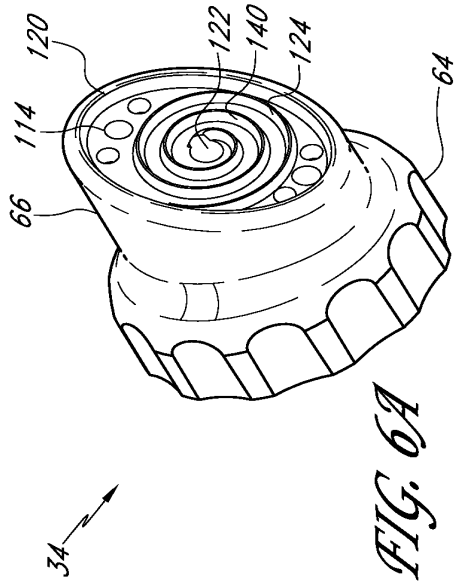


FIG. 6A

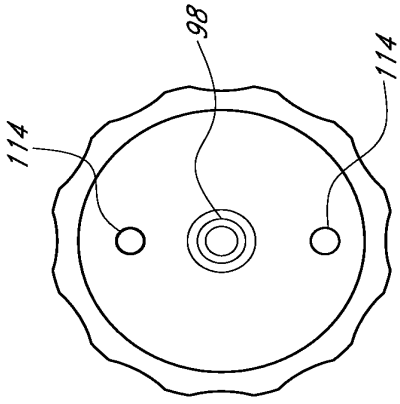


FIG. 6C

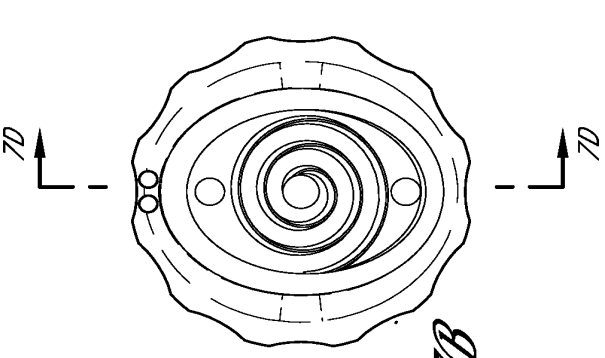


FIG. 7B

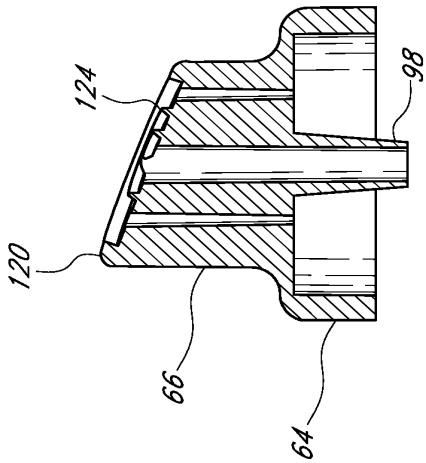


FIG. 7D

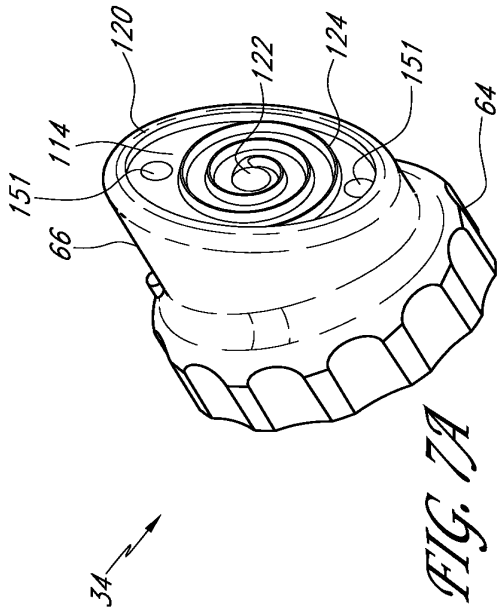


FIG. 7A

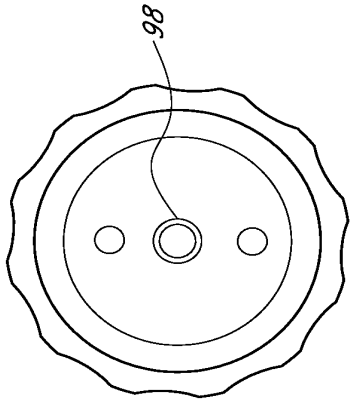


FIG. 7C

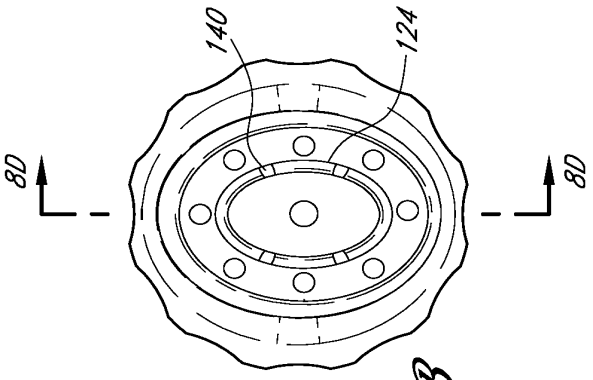


FIG. 8B

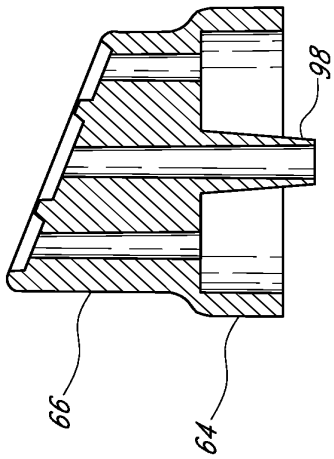


FIG. 8D

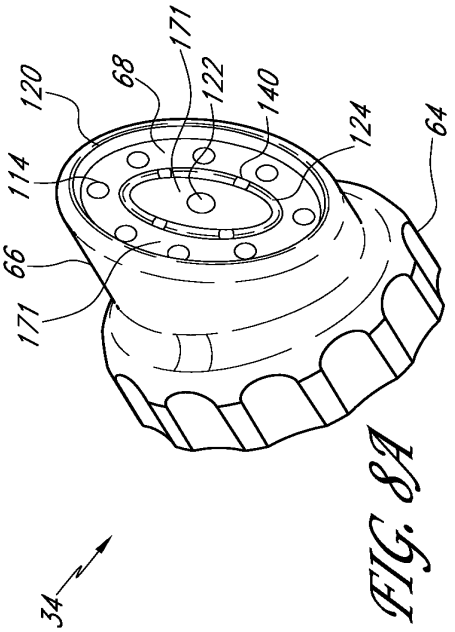


FIG. 8A

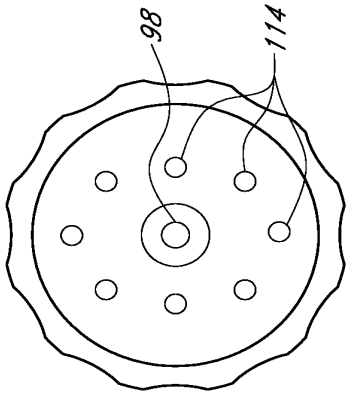


FIG. 8C

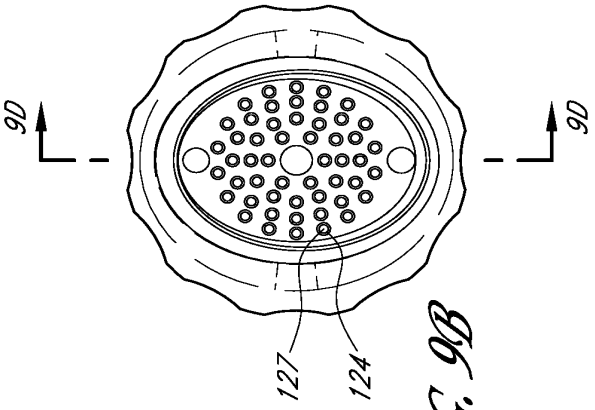


FIG. 9B

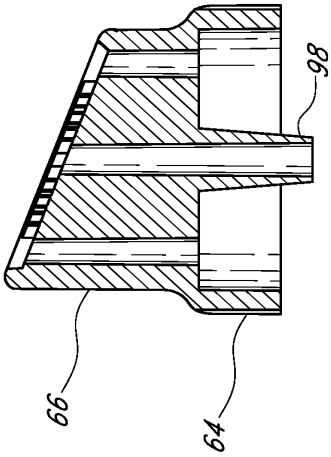


FIG. 9D

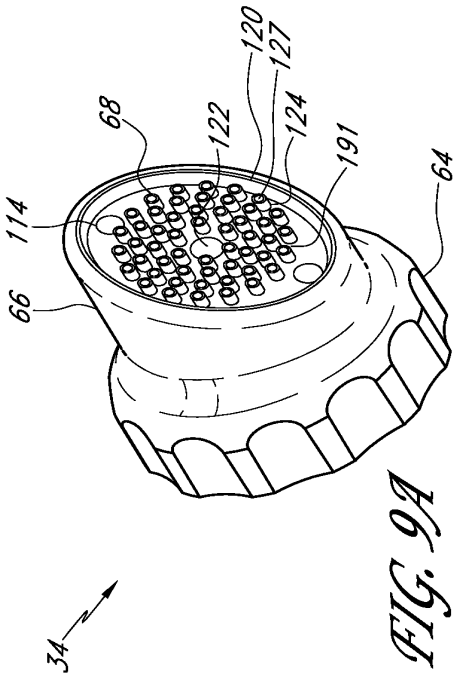


FIG. 9A

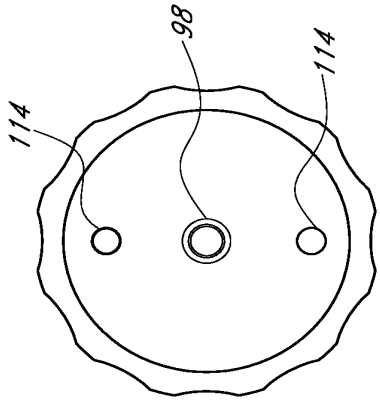


FIG. 9C

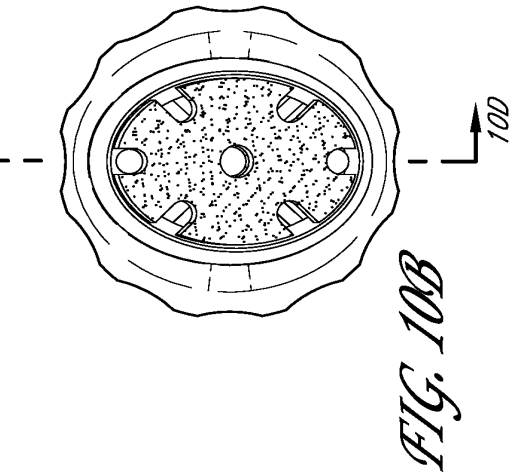


FIG. 10B

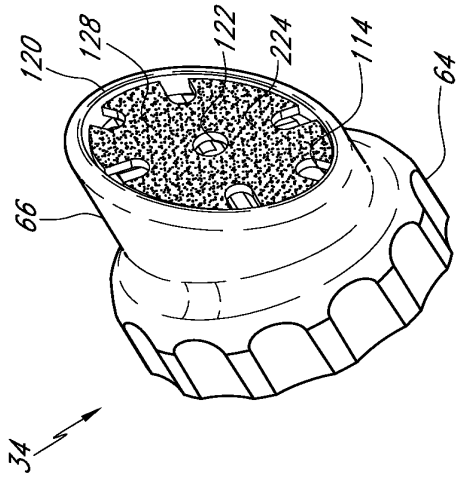


FIG. 10A

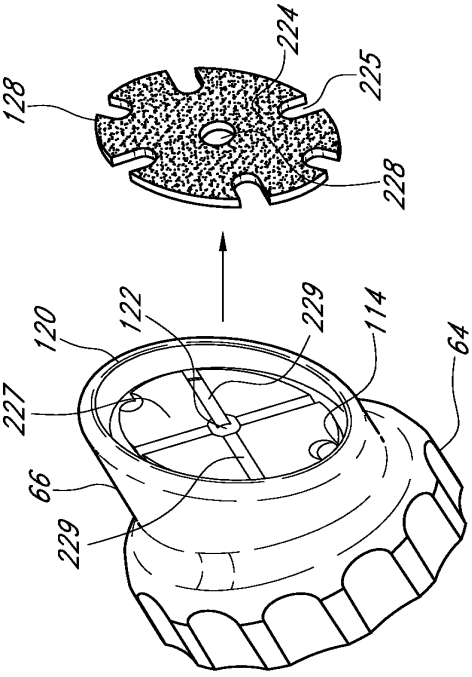


FIG. 10E

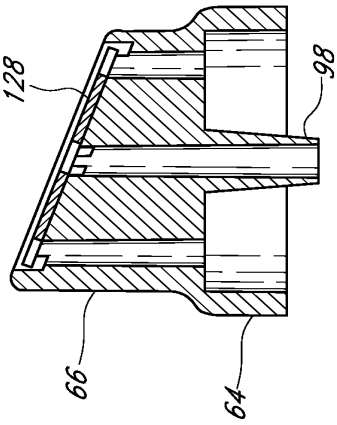


FIG. 10D

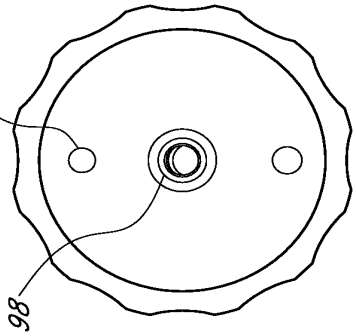


FIG. 10C

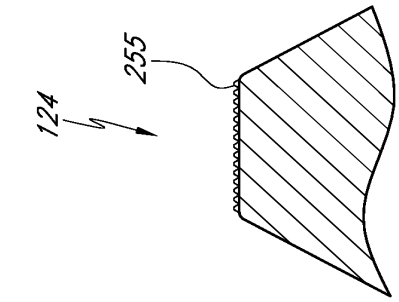


FIG. 11C

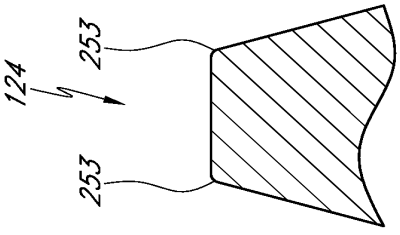


FIG. 11B

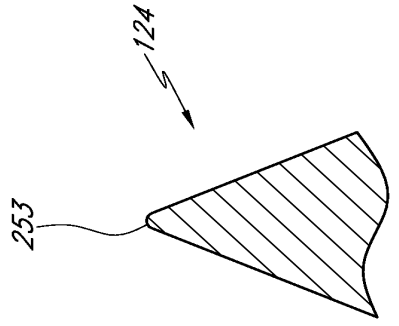


FIG. 11A

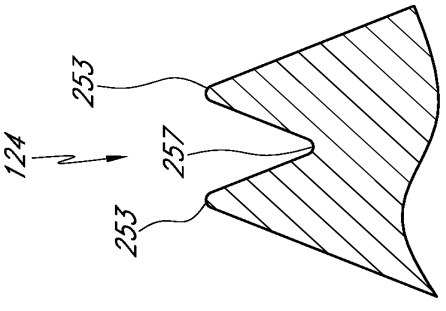


FIG. 11D

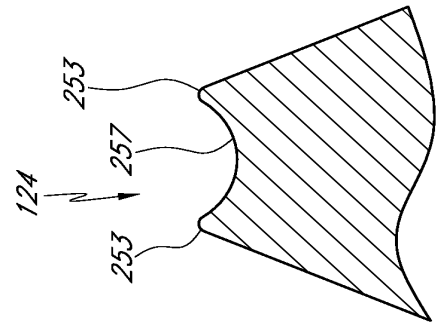


FIG. 11E

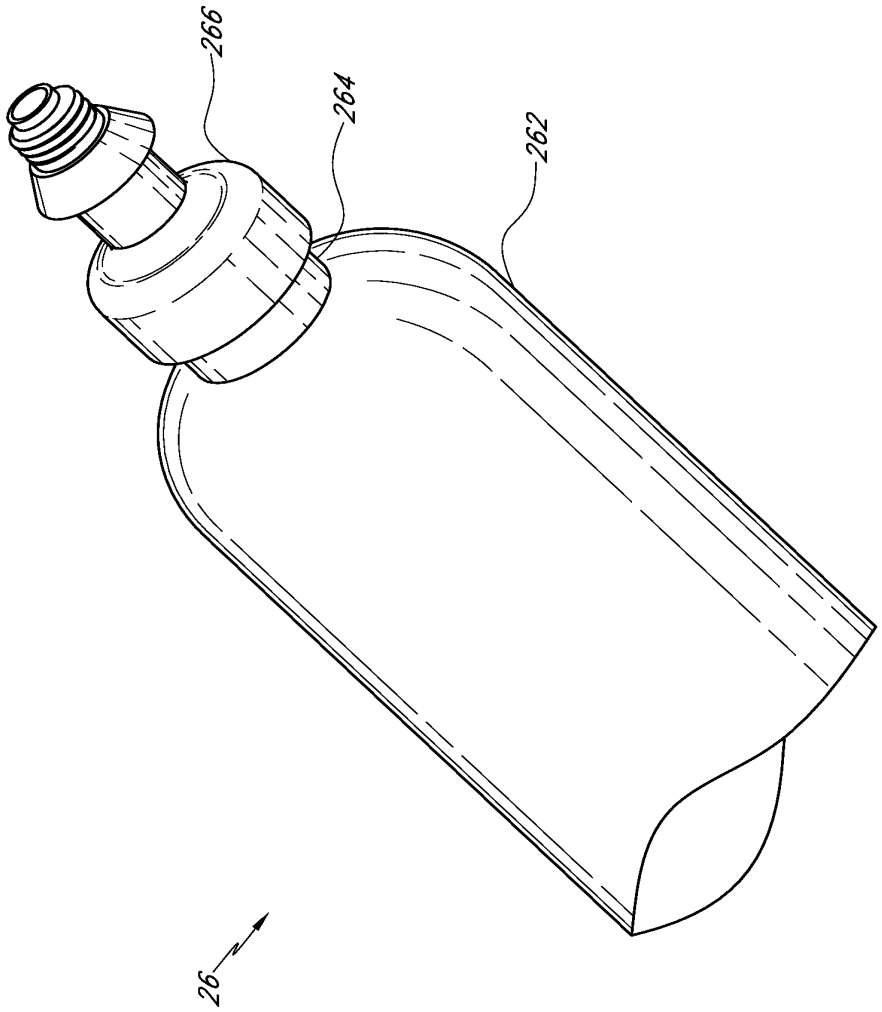


FIG. 12

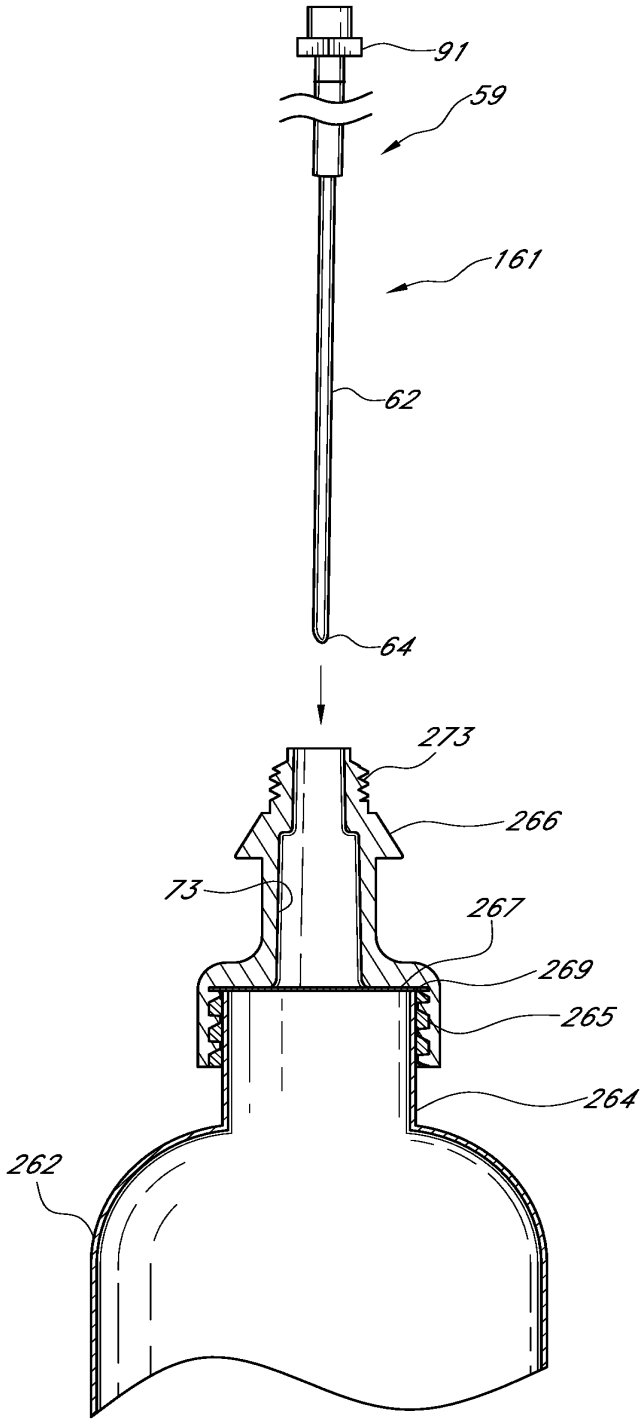


FIG. 13A

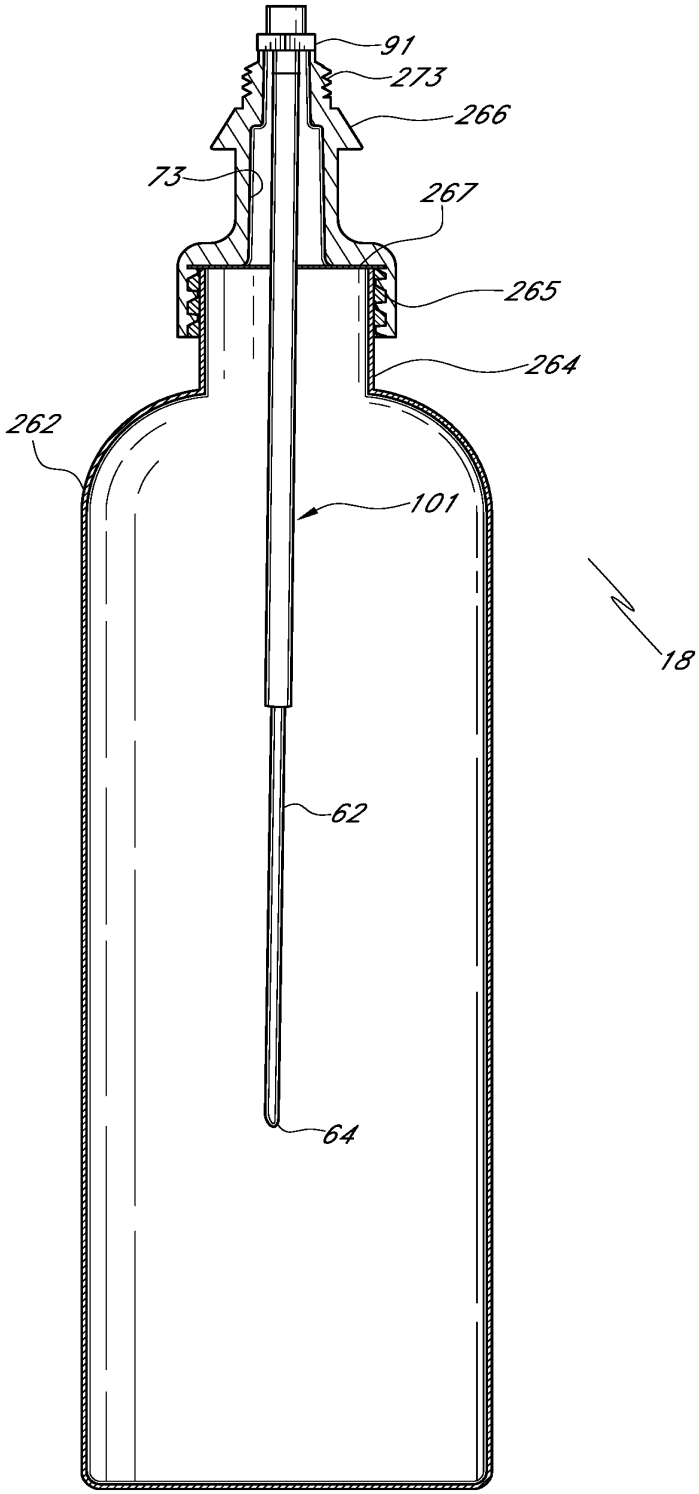


FIG. 13B

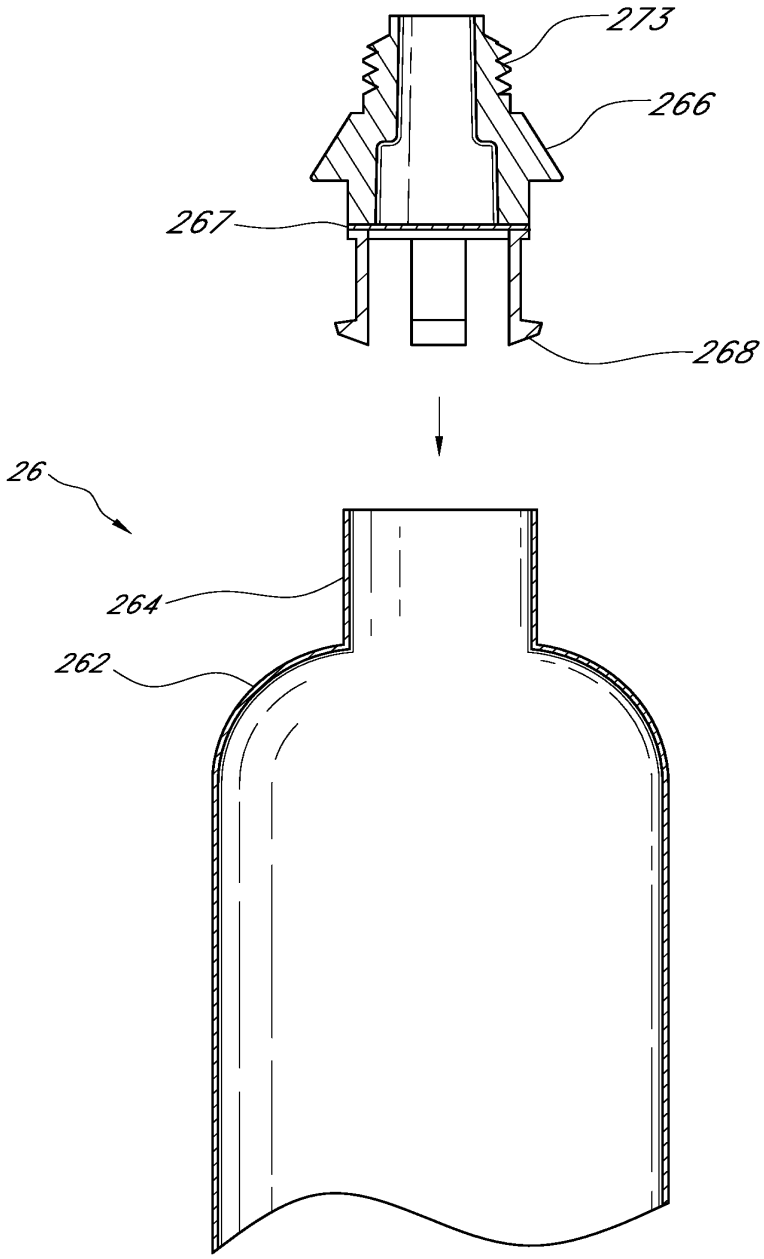


FIG. 14A

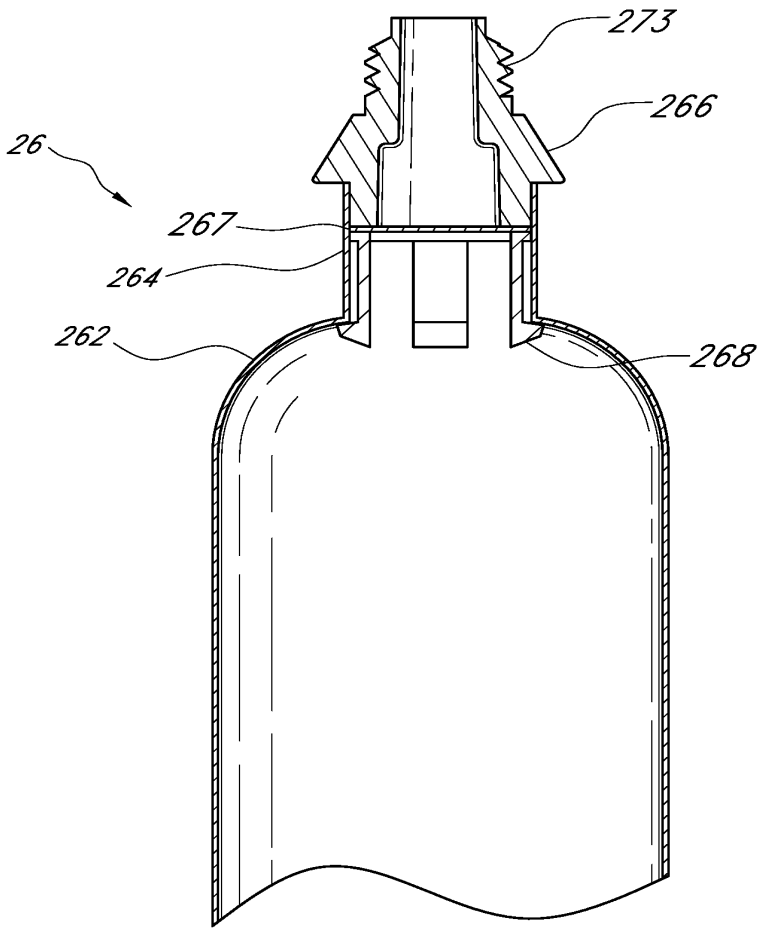


FIG. 14B

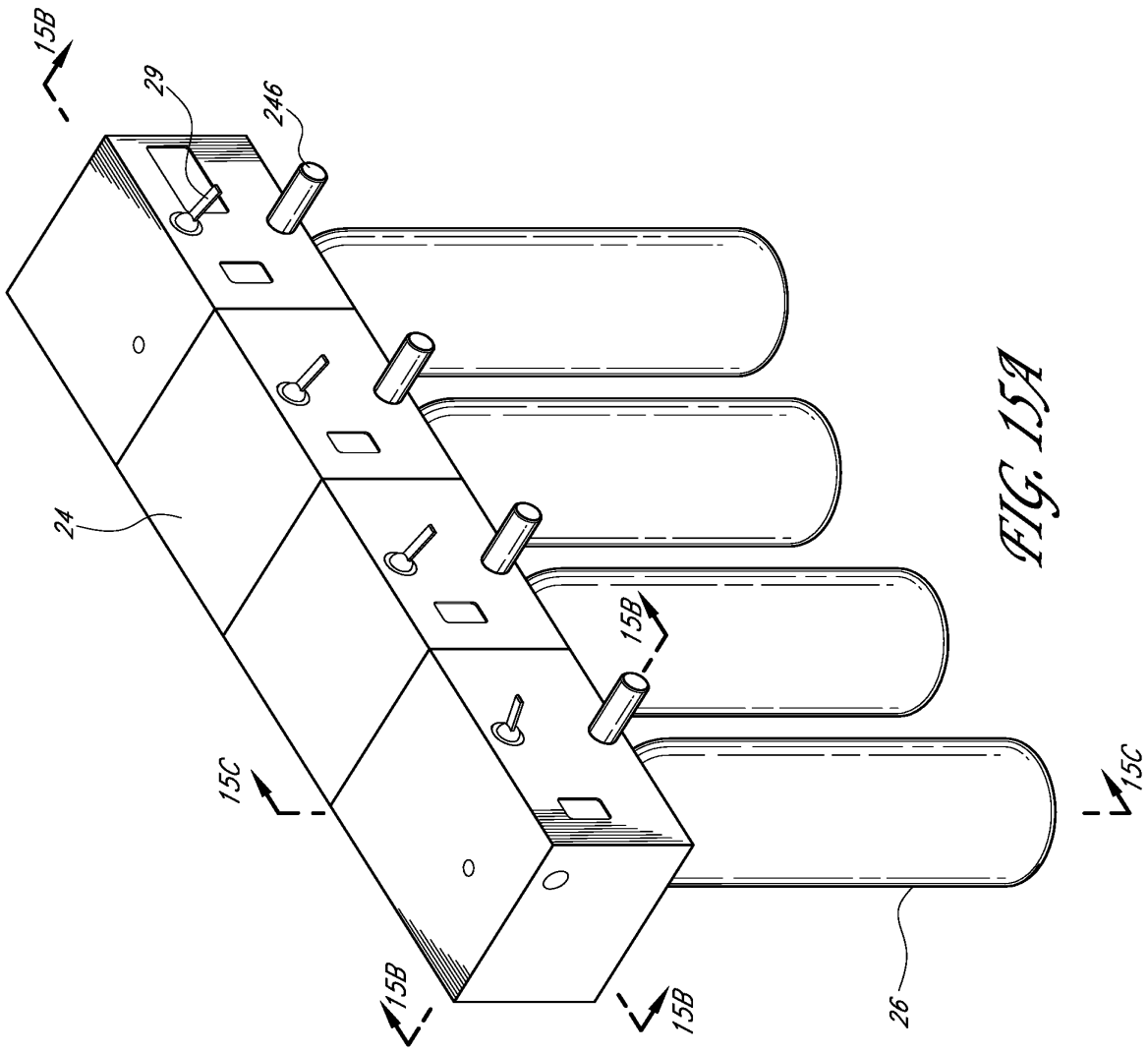


FIG. 15A

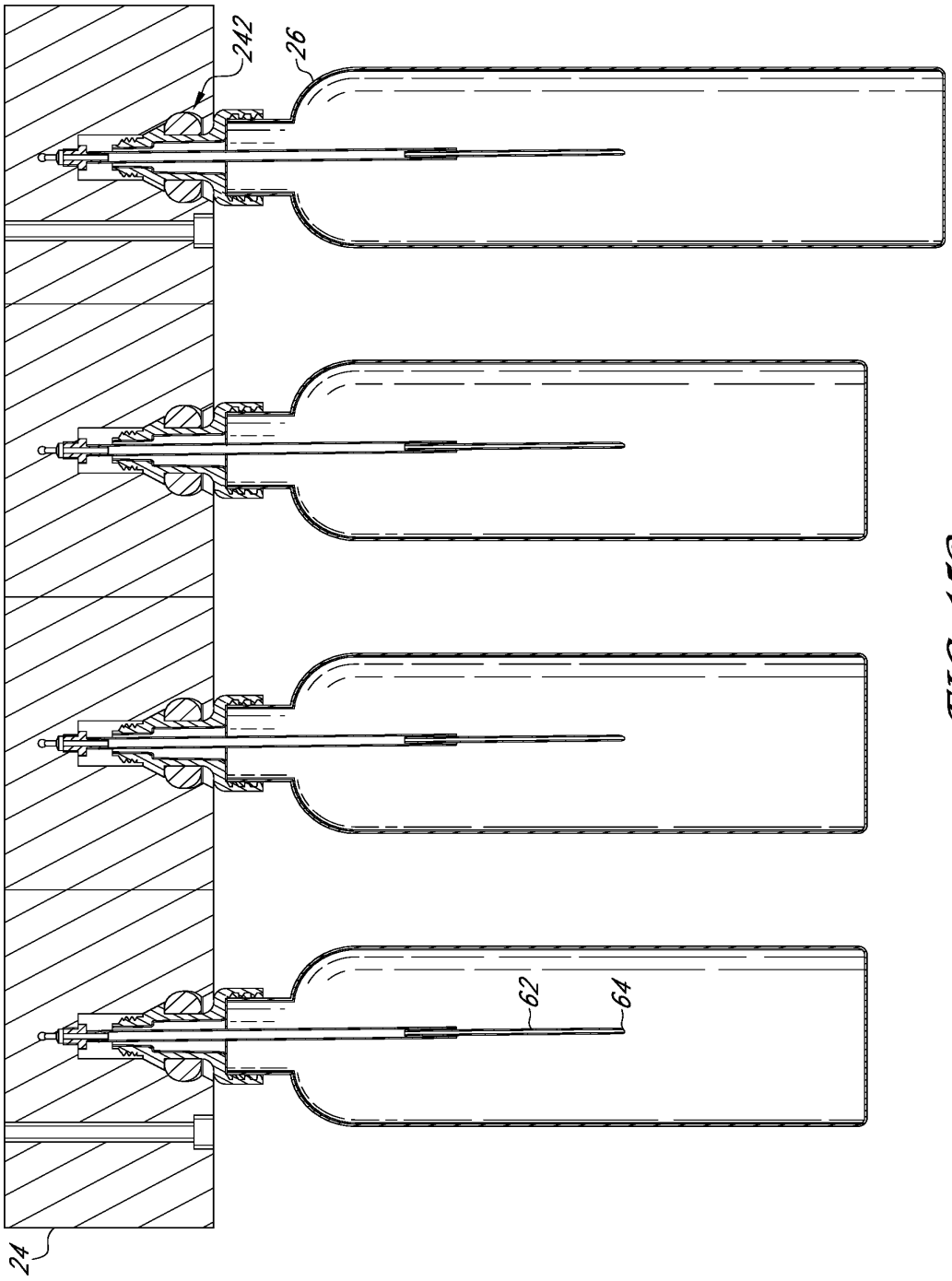


FIG. 15B

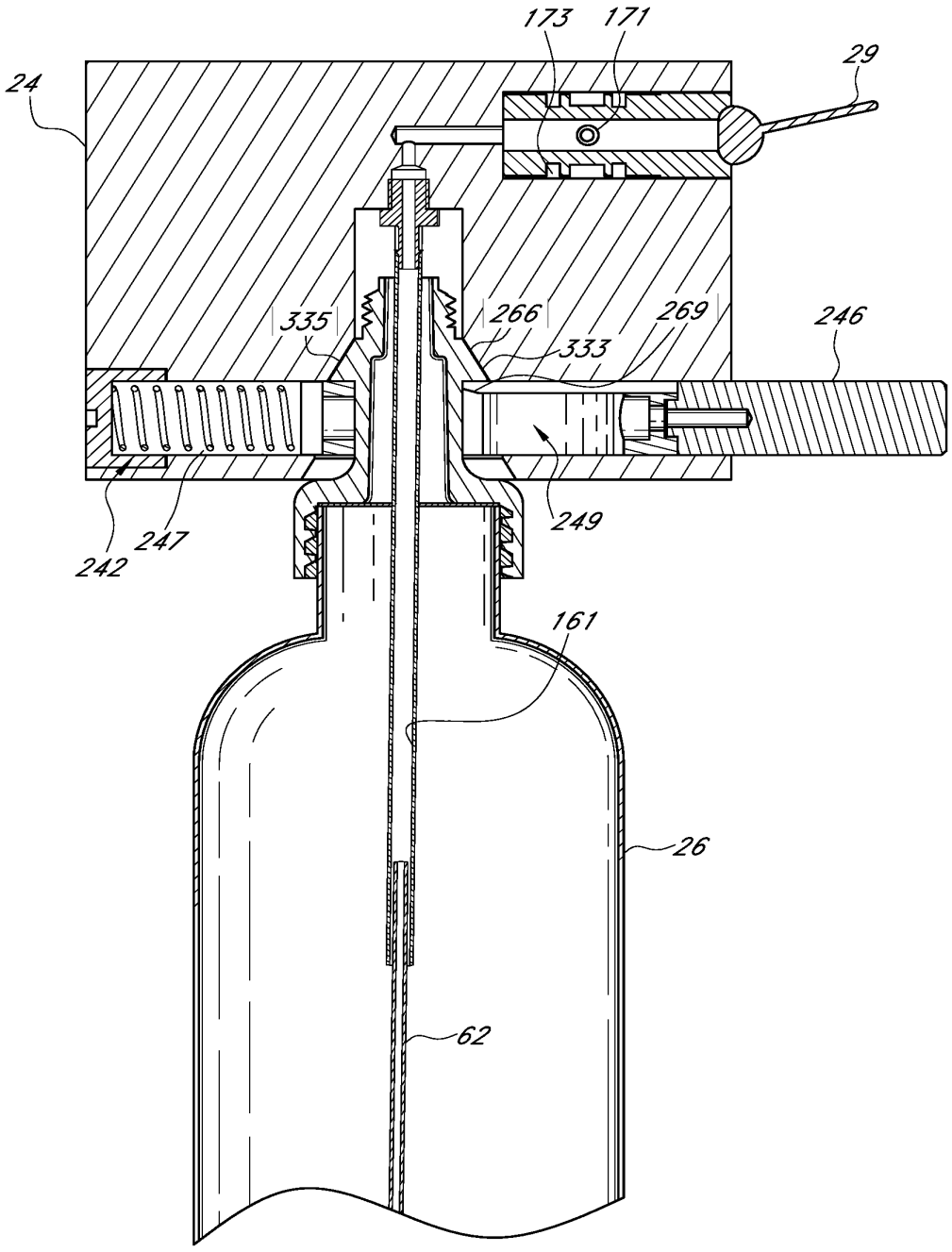


FIG. 15C

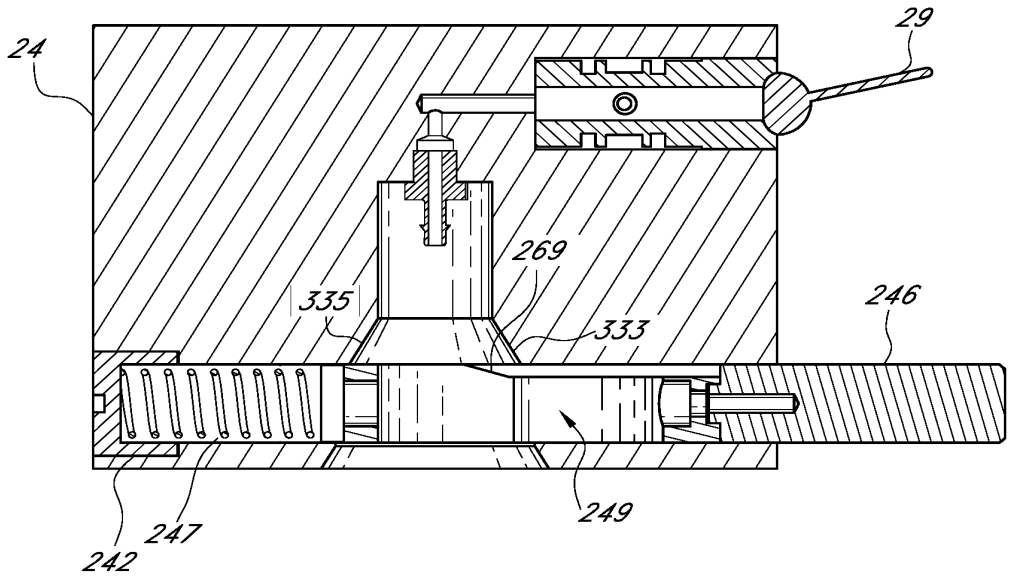


FIG. 15D

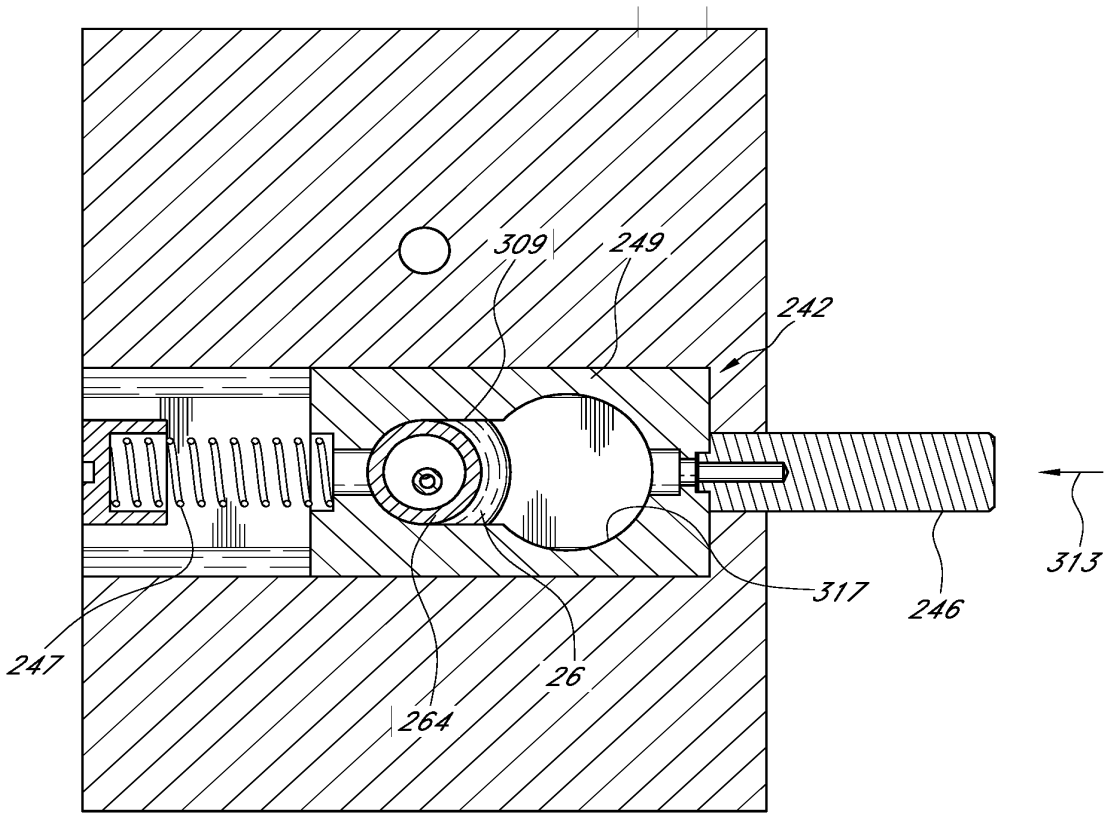


FIG. 15E

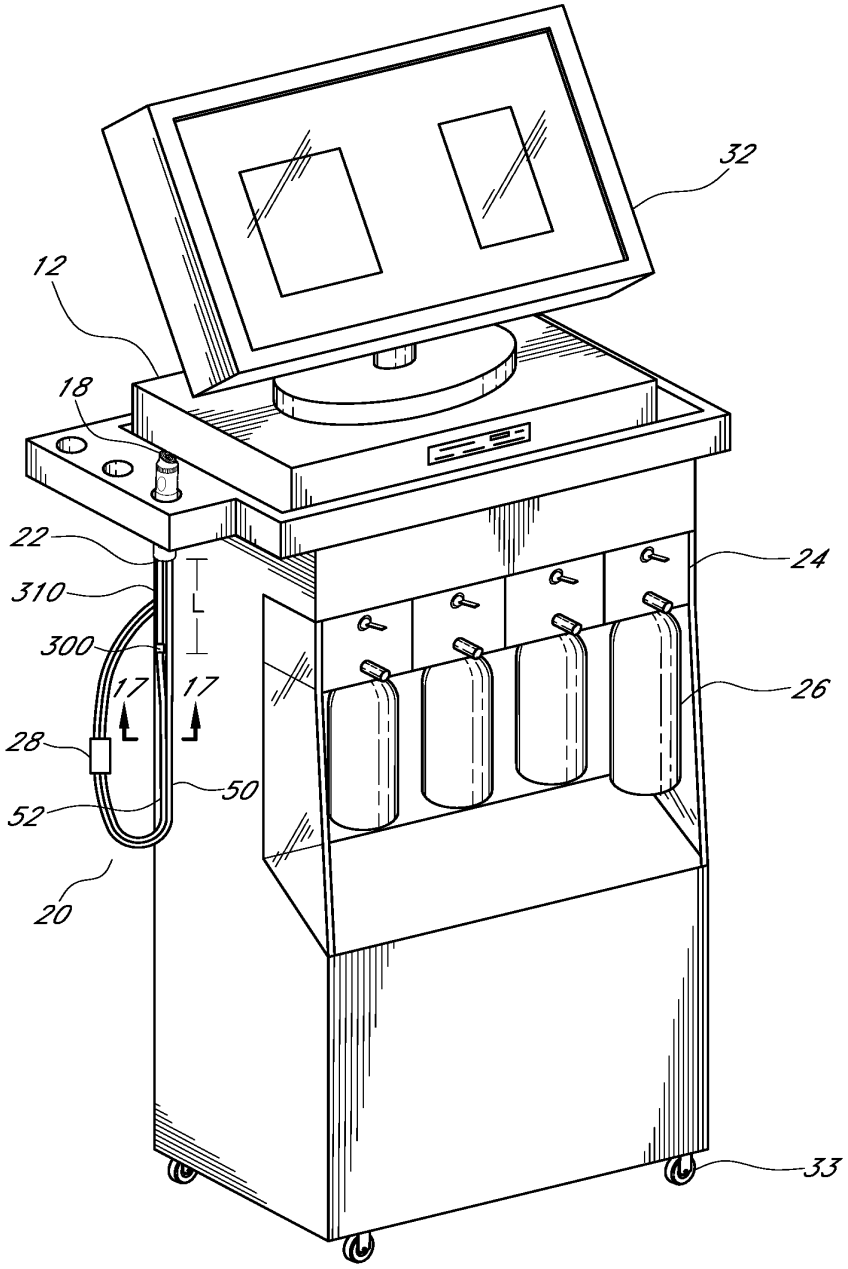


FIG. 16

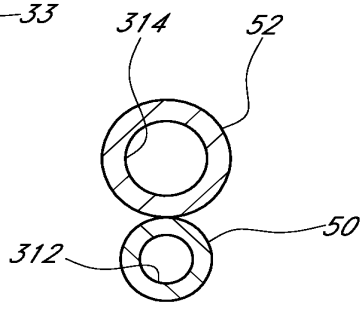


FIG. 17

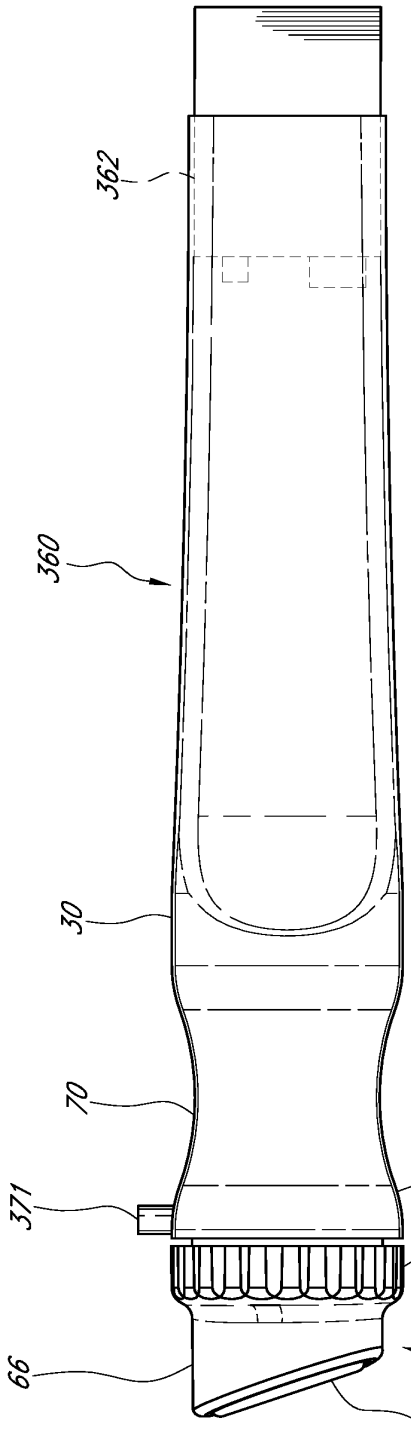


FIG. 18

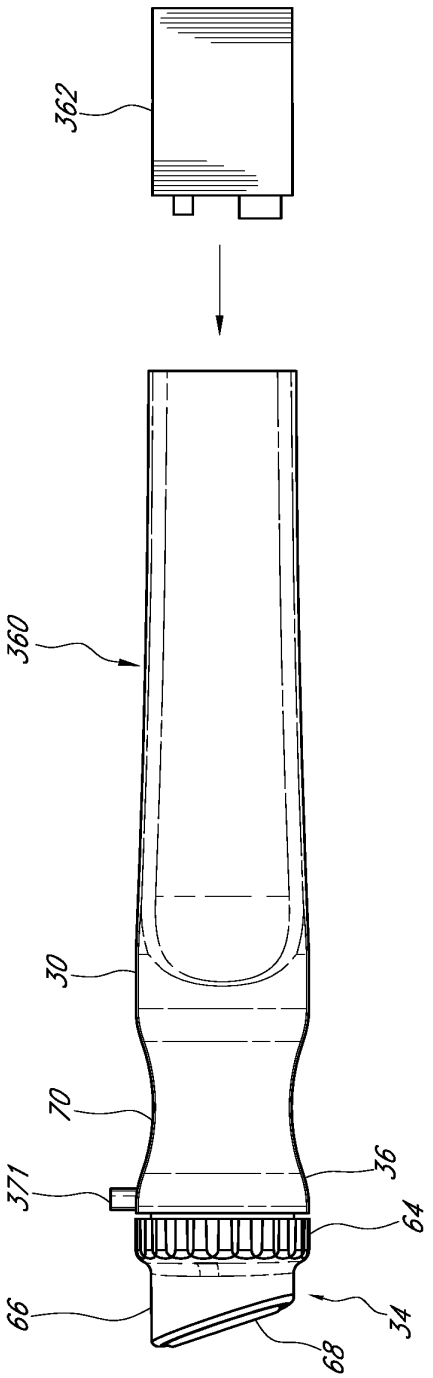


FIG. 19

DEVICES AND METHODS FOR TREATING SKIN

Abstract

An apparatus for treating skin has a console with a user input device and a handpiece assembly. The handpiece assembly is configured to treat skin. A fluid line provides fluid communication between the console and the handpiece assembly. A manifold system is coupled to the console and controlled by the user input device. The manifold system is configured to hold releasably a plurality of fluid sources and deliver fluid from at least one of the plurality of fluid sources to the handpiece assembly.

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WHAT IS CLAIMED IS:

1. An apparatus for treating skin, the apparatus comprising:

a console having a user input device and a handpiece assembly, which is configured to treat skin;

a fluid line providing fluid communication between the console and the handpiece assembly; and

a manifold system coupled to the console and controlled by the user input device, the manifold system being configured to hold releasably a plurality of fluid sources and deliver fluid from at least one of the plurality of fluid sources to the handpiece assembly.

DEVICES AND METHODS FOR TREATING SKIN

Reference to Related Applications

[0001] This is a continuation of U.S. Patent Application No. 15/660,750 filed July 26, 2017, which is a continuation of U.S. Patent Application No. 14/700,789, filed April 30, 2015, now U.S. Patent No. 9,814,868, which is a continuation of U.S. Patent Application No. 13/267,554, filed October 6, 2011, now U.S. Patent No. 9,474,886, which is a continuation of U.S. Patent Application No. 11/392,348, filed March 29, 2006, now U.S. Patent No. 8,048,089, which claims the benefit of U.S. Provisional Application No. 60/755,310, filed December 30, 2005 and U.S. Provisional Application No. 60/764,668, filed February 2, 2006. The entireties of all of the aforementioned applications are hereby incorporated by reference herein.

Background

Field

[0002] The invention relates in general to the field of skin treatment, and more specifically to apparatuses and methods for treating a person's skin.

Description of the Related Art

[0003] Abrasion of the outer layer or epidermis of the skin is desirable to smooth or blend scars, blemishes, or other skin conditions that may be caused by, for example, acne, sun exposure, and aging. Standard techniques used to abrade the skin have generally been separated into two fields referred to as dermabrasion and microdermabrasion. Both techniques remove portions of the epidermis called the stratum corneum, which the body interprets as a mild injury. The body then replaces the lost skin cells, resulting in a new outer layer of skin. Additionally, despite the mild edema and erythema associated with the procedures, the skin looks and feels smoother because of the new outer layer of skin.

[0004] Dermabrasion refers to a procedure in which the surface of the skin is removed due to mechanical rubbing by a handpiece with an abrasive element that is often in the form of a burr, wheel, or disc. This process tends to be painful and messy. In fact, the procedure is sometimes painful enough to require a local anesthetic. Dermabrasion leaves

the skin red and raw-looking. The removed skin can take several months to regrow and heal. Recent efforts have led to the use of lasers instead of abrasive elements, which have resulted in less bleeding, but the pain and mess remains.

[0005] Efforts have been made to decrease the mess caused by the process waste, such as removed skin and blood, by adding a suction element. As the process waste is drawn into the suction opening, skin that has not been removed is also pulled against the grit surrounding the suction opening, so the procedure remains fairly messy due to the abrasion that takes place outside of the handpiece by the grit.

[0006] Microdermabrasion refers generally to a procedure in which the surface of the skin is removed due to mechanical rubbing by a handpiece emitting a stream of sand or grit. For example, a handpiece can be used to direct an air flow containing tiny crystals of aluminum oxide, sodium chloride, or sodium bicarbonate. The momentum of the grit tends to wear away two to three cell layers of the skin with each pass of the handpiece. Alternatively, new "crystal-free" microdermabrasion techniques utilize a diamond-tipped handpiece without a stream of grit.

[0007] Efforts to add a suction element have been more successful in microdermabrasion than in dermabrasion because the handpiece applying the stream of grit is more controllable to a localized area. That is, as the removed skin is drawn into the suction opening, skin that has not been removed is also pulled towards the handpiece where it is treated with the grit stream, allowing for simultaneous local treatment and suction.

[0008] Microdermabrasion removes moisture from the skin, so the procedure is always followed by the application of moisturizing creams. However, similar to topical application of moisturizing creams prior to microdermabrasion, the moisturizing elements only work as deep as the active ingredients can passively migrate through the remaining epidermis.

Summary

[0009] In some embodiments, an apparatus for treating skin has a console with a user input device and a handpiece assembly. The handpiece assembly is configured to treat skin. A fluid line provides fluid communication between the console and the handpiece assembly. A manifold system is coupled to the console and controlled by the user input

device, such as a computer, touchscreen, keyboard, and the like. The manifold system is configured to hold releasably a plurality of fluid sources and deliver fluid from at least one of the plurality of fluid sources to the handpiece assembly.

[0010] In some embodiments, a tip comprising a skirt portion is configured to couple to a handpiece for treating a target area on a patient's skin. A central body portion is coupled to the skirt portion. A first passage extends through the central body portion and is configured to receive a fluid from the handpiece. At least one second passageway extending through the central body portion and is configured to convey the fluid back into the handpiece. An inner member extends in a generally spiral fashion across at least a portion of a distal face of the central body portion. The inner member defines a channel between the first passage and the at least one second passage. When the tip is place against the skin, a chamber can be formed by the channel and the person's skin.

[0011] In some embodiments, a method of treating a target region on a patient's skin comprises providing a tip including a first aperture and at least one second aperture. At least one inner member on the surface of the tip defines at least one channel between the first aperture and the at least one second aperture. An outer member is disposed on the surface of the tip. The outer member engages the target with the tip. A treatment fluid flows distally through the first aperture region and through the at least one channel. The treatment fluid flows proximally through the at least one second aperture.

[0012] In some embodiments, a tip comprises a skirt portion configured to couple to a handpiece for treating a target on a patient's skin. A central body portion is coupled to the skirt portion and includes a mounting region substantially opposite the skirt portion. The mounting region configured to receive a pad for treating the skin. A first aperture extends through the skirt portion and the central body portion and configured to receive a fluid from the handpiece. At least one second aperture extending through the skirt portion and the central body portion and configured to convey the fluid back into the handpiece.

[0013] In some embodiments, a method of treating a target region of a patient comprises providing a tip including a first aperture, at least one second aperture, and a distal end configured to receive a pad. In some variations, the first pad is attached to the distal end. The tip is engaged with the target region.

[0014] In some embodiments, a manifold system comprises a body portion configured to receive releasably at least two bottles. The manifold is configured so that it can be coupled to a console. The console includes a handpiece for treating skin. At least one elongate member is in communication with a pump and configured to extract a fluid from one of the at least two bottles. At least one switch is configured to permit or inhibit a flow of the fluid from one of the at least two bottles through the pump. In some variations, the elongate member is dimensioned to fit within one of at least two bottles to draw fluid out of the bottle.

[0015] In some embodiments, a method of treating a target region on a patient's skin comprises engaging a tip with the patient's skin such that an effective amount of skin is removed by the tip. In some variations, the tip is a dry tip. After removing an effective amount of skin, another tip (e.g., a wet tip) engages the patient's skin such that an effective amount of skin is removed by the tip. In some variations, acid is delivered out of the wet tip to facilitate skin removal. In some variations, the wet tip includes a first aperture, at least one second aperture, at least one inner member on the surface of the tip defining at least one channel between the first aperture and the at least one second aperture, and an outer member on the surface of the tip. In some variations, treatment fluid flows outwardly along the channel. In some variations, treatment fluid flows inwardly along the channel. In some variations, the wet tip comprises an abrasive pad.

[0016] In some embodiments, a method of treating a target region on a patient's skin comprises engaging a first skin treatment tip with the patient's skin. A first material is delivered out of the first skin treatment tip to a target region. A second skin treatment tip engages the target region while the first material effectively facilitates exfoliation with the second skin treatment tip. In some variations, the first material comprises an acid, hydrator, and combination thereof. In some variations, the first skin treatment tip is configured to remove skin at a different rate than the second skin treatment tip. In some variations, the first skin treatment tip is configured to exfoliate at a higher rate than the second skin treatment tip. In some variations, material is delivered out of the second treatment tip to the target region of the patient's skin.

[0017] The apparatus for treating skin can dispense treatment material that is held in containers, such as bottles, bags, pouches, or other suitable structures for holding and storing material. These containers can be non-refillable or refillable. The treatment material can be delivered by gravity feed, pumps, or suction devices. The manifold system can be used to control fluid flow from a plurality of containers to one or more handpieces.

Brief Description of the Drawings

[0018] Having thus summarized the general nature of the invention, certain preferred embodiments and modifications thereof will become apparent to those skilled in the art from the detailed description herein having reference to the figures that follow.

[0019] Figure 1 is a perspective view of one embodiment of a skin treatment system.

[0020] Figure 2A is a perspective view of one embodiment of a handpiece assembly for use with the skin treatment system of Figure 1.

[0021] Figure 2B is a side elevational view of the handpiece assembly of Figure 2A.

[0022] Figure 3 is a longitudinal cross-sectional view of the handpiece assembly of Figure 2B. The handpiece assembly is engaging a person's skin.

[0023] Figure 4 is a perspective view of another embodiment of a handpiece assembly.

[0024] Figure 5A is a perspective view of one embodiment of a tip that can be coupled to a main body of a handpiece assembly to treat a person's skin.

[0025] Figure 5B is a top elevational view of the tip of Figure 5A.

[0026] Figure 5C illustrates a bottom elevational view of the tip of Figure 5A.

[0027] Figure 5D is a cross-sectional view of the tip of Figure 5B taken along the line 5D-5D.

[0028] Figure 6A is a perspective view of a tip in accordance with another embodiment.

[0029] Figure 6B is a top elevational view of the tip of Figure 6A.

[0030] Figure 6C is a bottom elevational view of the tip of Figure 6A.

[0031] Figure 6D is a cross-sectional view of the tip of Figure 6B taken along the line 6D-6D.

[0032] Figure 7A is a perspective view of a tip in accordance with another embodiment.

[0033] Figure 7B is a top elevational view of the tip of Figure 7A.

[0034] Figure 7C is a bottom elevational view of the tip of Figure 7A.

[0035] Figure 7D is a cross-sectional view of the tip of Figure 7B taken along the line 7D-7D.

[0036] Figure 8A is a perspective view of yet another embodiment of a tip for treating a person's skin.

[0037] Figure 8B is a top elevational view of the tip of Figure 8A.

[0038] Figure 8C is a bottom elevational view of the tip of Figure 8A.

[0039] Figure 8D is a cross-sectional view of the tip of Figure 8B taken along the line 8D-8D.

[0040] Figure 9A is a perspective view of still another embodiment of a tip that can be coupled to a main body of a handpiece assembly.

[0041] Figure 9B is a top elevational view of the tip of Figure 9A.

[0042] Figure 9C is a bottom elevational view of the tip of Figure 9A.

[0043] Figure 9D is a cross-sectional view of the tip of Figure 9B taken along the line 9D-9D.

[0044] Figure 10A is a perspective view of another embodiment of a tip for treating a person's skin.

[0045] Figure 10B is top elevational view of the tip of Figure 10A.

[0046] Figure 10C is bottom elevational view of the tip of Figure 10A.

[0047] Figure 10D is a cross-sectional view of the tip of Figure 10B taken along the line 10D-10D.

[0048] Figure 10E is a perspective exploded view of the tip of Figure 10A, wherein a pad is spaced from a tip main body.

[0049] Figures 11A-11E are cross-sectional views of inner members that can be used to exfoliate skin.

[0050] Figure 12 is a perspective view of a bottle for use with the skin treatment system of Figure 1.

[0051] Figure 13A is a cross-sectional view of one embodiment of a bottle spaced from an insertion tip assembly.

[0052] Figure 13B is a cross-sectional view of the bottle of Figure 12A coupled with the insertion tip assembly.

[0053] Figure 14A is a cross-sectional view of a closure and a bottle.

[0054] Figure 14B is a cross-sectional view of the closure and bottle of Figure 14A when assembled.

[0055] Figure 15A is a perspective view of one embodiment of a manifold system holding a plurality of bottles.

[0056] Figure 15B is a cross-sectional view of the manifold system of Figure 15A taken along the line 15B-15B of Figure 15A.

[0057] Figure 15C is a cross-sectional view of the manifold system of Figure 15A taken along the line 15C-15C of Figure 15A.

[0058] Figure 15D is a cross-sectional view of the manifold system of Figure 15C wherein the bottle has been removed.

[0059] Figure 15E is a cross-sectional elevational view of the manifold system.

[0060] Figure 16 is a perspective view of another embodiment of a skin treatment system.

[0061] Figure 17 is a cross-sectional view of a fluid line of the skin treatment system of Figure 16 taken along the line 17-17.

[0062] Figure 18 is a side elevational view of a handpiece assembly with a removable cartridge.

[0063] Figure 19 is a side elevational view of the handpiece assembly and removable cartridge of Figure 18, the cartridge is shown removed from the handpiece assembly.

Detailed Description

[0064] Figure 1 illustrates a skin treatment system 10 that can be used to perform one or more treatments on a person's skin. The illustrated skin treatment system 10 includes

a console 12 and a handpiece assembly 18 connected to the console 12 via a line 20. A manifold system 24 can control the flow of treatment material from containers 26 into and through the line 20. The treatment material can be discharged out of the handpiece assembly 18 to treat a person's skin. The skin treatment system 10 can be used at a hospital, health care physicality, residences, or any other suitable location.

[0065] As explained in more detail below, the handpiece assembly 18 is applied to the target area of the patient to perform skin treatment(s). As used herein, the term "skin treatment" is a broad term and includes, but is not limited to, skin removal, skin abrasion (e.g., dermabrasion, microdermabrasion, etc.), ablating or slicing skin (preferably a thin layer of skin), stimulation (including thermal, mechanical, electrical, and/or chemical stimulation), mesotherapy, isophoresis, light therapy, vacuum therapy, and the like. Preferably, the handpiece assembly 18 administers a treatment material from at least one of the containers 26 through the line 20 to the target area of the skin while the handpiece assembly 18 engages the skin.

[0066] As used herein, the term "treatment material" is a broad term and includes, but is not limited to, medicament, a substance tending to flow or conform to the outline of its container such as fluid, gas, liquid (e.g., serums, water, saline, etc.), gel, fluidized material, additives, and/or a plurality of fine solids. The general term "fluid" is used throughout synonymously with the term "treatment material" and is to be given the same broad definition. The handpiece assembly 18 can preferably massage, abrade, ablate, or otherwise treat the target skin area while also applying a treatment material to the patient. In certain embodiments, the treatment material and tip of the handpiece 18 can work in combination for an effective and rapid skin treatment. Additionally, any number of "dry" and "wet" tips can be used alone or in combination for treatment flexibility.

[0067] With continued reference to Figure 1 the line 20 is configured to provide fluid communication between the containers 26 and the handpiece assembly 18. The line 20 can comprise one or more conduits extending between the console 12 and the handpiece assembly 18. In certain embodiments, the line 20 includes a supply line and a waste line for delivering and returning material, respectively, as detailed below.

[0068] The distal end 22 of the line 20 is connected to the handpiece assembly 18. Preferably, the line 20 includes a filter 28 that removes contaminants or impurities from the treatment material passing through the line 20. In other embodiments, the filter 28 is located in the console 12 or the manifold system 24. The console 12 can be connected to a power source such as an AC outlet. The power source can power the handpiece assembly 18 and/or other components of the skin treatment system 10, such as, for example, pumps, valves, and the like.

[0069] In the illustrated embodiment, the console 12 comprises four casters 33 to allow for easy movement, for example, from one treatment room to another treatment room. In such an embodiment, the console 12 can be conveniently rolled on a support surface. Other means of transportation can also be employed or the console 12 can be stationary. In some embodiments, the console 12 is portable for convenient transport.

[0070] The illustrated containers 26 of Figure 1 are preferably releasably coupled to the manifold system 24. The manifold system 24 can deliver treatment material from the containers 26 to the line 20 as mentioned above. In certain embodiments, the console 12 has a user input device 32 for selecting a treatment material to be passed through the line 20 to the handpiece assembly 18. During some skin treatment procedures, treatment materials from multiple containers 26 are sequentially or simultaneously applied to the patient's skin during a "wet" mode of operation. Alternatively, the skin treatment system 10 can be used to deliver a single treatment material to the patient's skin. In some embodiments, the console 12 can be used for a "dry" mode of operation. That is, the console 12 can be used to exfoliate skin, for example, without delivering little or substantially no treatment fluid. The skin treatment system 10 can thus provide flexibility in selecting a treatment plan.

[0071] Multiple handpieces assemblies 18 and/or tips 34 can be used during a single skin treatment procedure in a wet and/or dry mode of operation. For example, a first handpiece assembly 18 may be employed to treat a patient's face and neck while a second handpiece assembly 18 may be employed to treat other larger areas of the patient's body. Thus, different handpieces 18 can be used to treat different regions of a person's body. The configurations of the handpieces 18 and tips can be selected based on the treatment material

to be applied, desired interaction with the patient's skin, size of treatment area, skin condition, and the like.

[0072] With reference to Figures 2A and 2B, the handpiece assembly 18 includes a main body 30 and a tip 34. The handpiece assembly 18 can be conveniently held within the hand of a user so that the user can place the tip 34 in operative engagement with a person's skin. The user is typically an aesthetician (e.g., an aesthetician allowed to perform microdermabrasion), doctor, and other medical personnel, such as a physician assistant and nurse practitioner. In some cases, the user is the person whose skin is being treated.

[0073] The main body 30 has contoured portions 70 at its distal end 36 so that the user can comfortably grip the handpiece assembly 18 during use. The main body 30 can have other designs to provide a comfortable grip. Figure 2A illustrates an embodiment in which the main body 30 is substantially flat on two opposing sides. Figure 4 illustrates an embodiment in which the main body 30 is generally cylindrical.

[0074] As noted above, the tip 34 can be pressed against a patient's skin to perform a skin treatment. The distal end 102 of the tip 34 may be angled with respect to the handpiece assembly 18 to increase the contact area with the patient's skin without enlarging the handpiece assembly 18 for an ergonomic and comfortable design. The angled tip 34 can lay flat on the skin while the main body 30 is angled to the skin. The angle between the face of the distal end 102 and the longitudinal axis of the handpiece assembly 18 can be selected based on the desired size of the face of the distal end 102. In alternative embodiments, the face of the distal end 102 is generally perpendicular to the longitudinal axis of the main body 30.

[0075] The tip 34 can be permanently or temporarily coupled to the distal end 36 of the main body 30. In some embodiments, the tip 34 is disposable. As used herein, the term "disposable," when applied to a system or component (or combination of components), such as a tip, container, or pad, is a broad term and means, without limitation, that the component in question is used a finite number of times and then discarded. Some disposable components are used only once and then discarded. Other disposable components are used more than once and then discarded. In some embodiments, the tip 34 is removably coupled to the main body 30 such that the tip may be removed from the main body 30 and thrown

away to avoid cross-contamination. In other embodiments, the tip 34 is a reusable tip that can be cleaned, for example by autoclaving, after each use. The tip 34 can thus be used for any number of procedures as desired.

[0076] With reference to Figures 2A and 2B, the proximal end 40 of the main body 30 is operatively connected to the line 20. In the embodiment illustrated, the line 20 includes an output line 50 for removing waste from the handpiece assembly 18 and an input line 52 for delivering treatment material to the handpiece assembly 18. The proximal end 40 of the main body 30 includes a plurality of connectors 44, 46, each connected to one of the conduits 50, 52. The illustrated input line 52 is connected to the connector 46, and the output line 50 is connected to the connector 44.

[0077] The input line 52 delivers treatment material from at least one of the containers 26 to the connector 46. The fluid then flows through the main body 30 and ultimately to the tip 34. As shown in Figure 3, the main body 30 comprises a plurality of lumens 90, 92 in a fluid communication with the tip 34. Fluid from the input line 52 can flow through the input lumen 92 to the tip 34. The fluid then flows out of the tip 34 to a target skin area. The fluid is then trapped in the space 100 between the skin 80 and the tip 34. To remove the fluid, the fluid flows proximally through the lumen 90 to the output line 50. The fluid passes through the output line 50 and into the console 12. As such, fluid can continuously or intermittently flow through the handpiece assembly 18.

[0078] To treat the person's skin 80, the handpiece assembly 18 can also be moved relative to the skin 80 such that the tip 34 maintains engagement with the skin 80. The illustrated tip 34 is configured to massage the skin 80 while also providing fluid communication with the skin 80. As detailed below in connection with Figures 5A through 10, the tip can include sharp planing blades, blades (e.g., razor blades), raised sharp areas, molded posts, grits, or other structures for treating skin, as detailed below.

[0079] When the tip 34 and treatment material are used in combination, the handpiece assembly 18 preferably exfoliates dead skin cells and extracts impurities by applying a vacuum while simultaneously bathing the healthy underlying skin with active treatment material. The active treatment material can facilitate cleansing, exfoliating, hydrating, and/or provide residual antioxidant protection. The treatment material and tip 34,

alone or in combination, can effectively and rapidly treat the target skin area. The waste material, including the used treatment material, removed skin, and/or grit, can then be drawn back through the tip 34, the main body 30 via lumen 90, and into the connector 44. The waste then flows into the output line 50 for subsequent disposal, as detailed below in connection with Figure 4.

[0080] In some embodiments, including the illustrated embodiment of Figure 3, the tip 34 has a tip connector 98 (see Figures 5C and 5D) that mates with the lumen 92. The tip 34 can provide fluid communication from the tip connector 98 to the space 100 via a through-hole 122. One or more through-holes 114 define fluid passageways through the tip 34 between the space 100 and the intermediate chamber 116.

[0081] The intermediate chamber 116 can be interposed between the through-holes 114 and the lumen 90. The intermediate chamber 116 is preferably defined by the distal face 43 of the main body 30 and the proximal face 41 of the tip 34. The intermediate chamber 116 can provide equalization of fluid between the tip 34 and the body 30. As such, a generally equal vacuum is applied to both through-holes 114. The fluid can flow through the through-holes 114, into the intermediate chamber 116, and then into the lumen 90. In some embodiments, however, the fluid flows directly from the through-holes 114 to the lumen 90 without passing through an intermediate chamber 116.

[0082] The tip 34 can have one or more sealing members to form a fluidic seal between the tip 34 and the main body 30. The illustrated main body 30 includes a sealing member 47 that engages the inner surface of the skirt 64 of the tip 34. The sealing member 47 can be a compliant member comprising rubber, polymer, plastic, or other suitable material for forming seals. In some embodiments, the sealing member 47 is an O-ring made of rubber.

[0083] With continued reference to Figure 3, during use, treatment material can flow distally through the lumen 92 into the through-hole 122. The treatment material then proceeds through and out of the through-hole 122 into the space 180. Preferably, the treatment material spreads radially outward to the peripheral through-holes 114. The material can then flow through the through-holes 114 into the lumen 90 for subsequent removal.

[0084] In alternative embodiments, the fluid flows in the opposite direction. That is, the line 50 delivers fluid through the lumen 90 into the tip 34. The fluid flows through the intermediate chamber 116 and the through-holes 114. The fluid then flows to the chamber 100 and inwardly through the tip connector 98 to the lumen 92. The fluid proceeds proximally along the lumen 92 and ultimately into the line 52.

[0085] In yet another embodiment, the handpiece assembly 18 comprises two or more input lumens 90. Such a design allows mixing of two or more treatment materials within the handpiece assembly 18 or space 100, which would be useful for treatments with fluids that react or are unstable or degrade when stored or mixed.

[0086] As depicted in Figure 4, the handpiece assembly 18 can optionally include a controller 60 that is configured to control the fluid flow out of the tip 34. The illustrated controller 60 can be operated to increase or decrease the flow rate of treatment fluid out of the tip 34. Alternatively or additionally, the controller 60 may control the flow rate of waste fluid flowing through the handpiece assembly 18 to the output line 50. When control of the waste treatment fluid and waste fluid is independent, the detention time of the fluid in the tip 34 may be adjusted as desired.

[0087] The illustrated controller 60 is a generally cylindrical body that is pivotally connected to the main body 30. Figure 4 illustrates an embodiment in which the controller 60 is recessed into and partially hidden by the main body 30, although in other embodiments the controller 60 may encircle the main body 30. The controller 60 may include textured grooves to provide for easier manipulation. In some embodiments, the controller 60 is located near the distal end 36 of the handpiece assembly 18 proximal or distal of the contoured portion 70. The type and configuration of the controller 60 can be selected based on the design of the handpiece assembly 18. The controller 60 can also be a rotatable knob or handle, digital controller, and the like.

[0088] The handpiece assembly 18 can also include one or more flow rate controllers within the main body 30 that cooperate with the controller 60 to adjust the fluid flow out of the tip 34. For example, the controller 60 may comprise a flow control valve such as a globe valve, butterfly valve, needle valve, or variable orifice. Other types of flow rate controllers can also be used, such as an electrically controlled solenoid valve. In

embodiments where the fluid flow is electronically controlled, the valve system may alternatively be located in the console 12 or manifold system 24. Separate devices can also be used to control the flow of treatment material. For example, clamps, pinch valves, or other suitable devices can be used to control fluid flow through the lines 50, 52.

[0089] Various types of tips 34 can be used with the handpiece assemblies 18 illustrated in Figures 1 to 4. Figures 5A through 10E illustrate embodiments, for example, of tips 34 that can be used with these handpiece assemblies 18. These tips 34 can be interchangeable to provide maximum treatment flexibility.

[0090] As shown in Figures 5A through 10E, the tip 34 comprises the skirt 64 and a tip main body 66 extending outwardly therefrom. The skirt 64 is preferably configured to provide a gripping surface suitable for applying leverage or force sufficient to remove the tip 34 from the main body 30. In some embodiments, the skirt 64 includes internal threads such that it can be mechanically coupled to external threads on the distal end 36 of the main body 30. In some embodiments, the tip 34 can be press fit onto the main body 30. Frictional forces can retain the tip 34 to the main body 30.

[0091] With respect to Figures 5A through 7, the tip 34 comprises an outer member 120 and an inner member 124. The outer member 120 preferably defines the periphery of the distal end 102 of the tip 34. When the tip 34 is placed against skin, the outer member 120 can inhibit fluid flow between the tip 34 and the skin and define the outer portion of the space 100.

[0092] The inner member 124 is preferably spaced from the outer member 120 to define one or more channels. The illustrated outer member 120 defines a continuous channel 140 that extends outwardly from the central through-hole 122 towards at least one of the outer through-holes 114. The inner member 120 can form the sidewalls of the channel 140. Any suitable configuration of channels 140 can be used to provide fluid flow along a flow path. The illustrated channels 140 have a somewhat U-shaped axial cross-sectional profile, as depicted in Fig. 8A. The channel 140 can have a V-shaped, curved, or any other suitable cross sectional profile. A flow path between the through-holes in the tip 34 can be defined at least in part by the channels.

[0093] The spiral-like pattern of the inner members 124 in Figures 5 through 7 varies. For example, the inner member 124 in Figure 5 extends about a longitudinal axis 143 of the tip 34 approximately one and a half times, the inner member 124 in Figure 6 extends about the tip 34 approximately two and a half times, and the inner member 124 in Figure 7 rotates about the tip 34 approximately one and three quarters times. In some embodiments, the inner member 124 subtends an angle of about 70°, 135°, 180°, 210°, 225°, 270°, 315°, 360°, and angles encompassing such ranges. In yet other embodiments, the inner member 124 subtends an angle of about 405°, 450°, or 495°. The tightness of the spiral in combination with the location and number of through-holes 114 affects the detention time of the fluid in the channel 140. Generally, a tighter spiral results in a longer the pathway (i.e., the length of the channel 140) from delivery through-hole 122 to the return through-holes 114. Fluid traveling down the longer pathway is in contact with the person's skin 80 for a longer period of time. Thus, tighter spirals lead to increased contact time between the fluid and the skin 80. These longer contact times can increase the effectiveness of the fluid because the skin can absorb an adequate amount of active ingredients of the treatment material. Fluid retention time on the patient's skin can be increased to increase hydration, serum retention, and the like. Shorter pathways can be used to reduce contact time between the fluid and the patient's skin. In some embodiments, for example, the tip 34 of Figures 5A to 5D has a relatively short pathway to limit absorption of fluids, achieve relatively high flow rates, and the like.

[0094] Additionally, the inner members 124 can be configured to remove tissue. The inner member 124 can be an abrasive member designed to remove tissue when the inner member 124 slides along a person's skin. The user may select a tip 34 based on the appropriate detention time and abrasiveness for the treatment being applied. For example, the tip 34 illustrated in Figure 7 will provide less abrasion than the tip illustrated in Figure 6, but the tip 34 illustrated in Figure 7 will provide a longer detention time than the tip 34 illustrated in Figure 5.

[0095] The illustrated tip 34 includes a generally continuous inner member 124 that extends from near the through-hole 122 towards at least one of the through-holes 114. In

other embodiments, the tip 34 can have a plurality of inner members 124. For example, the inner members 124 can be linear, curved, and may be continuous or discontinuous.

[0096] The handpiece assembly 18 can be moved while the spiral-like inner member 124 engages the patient's skin. The movement of the handpiece assembly 18 can increase the effectiveness of the treatment material expelled out of the tip 34. In some embodiments, for example, the tip 34 can be used with a lifting treatment material that facilitates extractions of, for example, sebum, blackheads, skin, or other substances (e.g., oils, dead skin, etc.). The lifting treatment extraction producer can unclog pores to improve the treated skin's overall appearance. To facilitate extractions, the handpiece assembly 18 can be twisted or rotated while the tip 34 is pressed against the patient's skin. The twisting action and the lifting treatment material can work in combination for effective extractions. In alternative embodiments, a handpiece assembly 18 can also be used without a lifting treatment material for extractions by employing the twisting motion.

[0097] In certain embodiments, the spiral-like tip 34 massages the skin 80. In other embodiments, the spiral-like tip 34 ablates the skin 80. For example, the inner members 124 may act as blades to cut thin layers from the skin 80 when the user twists the handpiece assembly 18. Twisting the handpiece assembly 18 causes the tip 34 to rotate about the twisting axis, rotating the sharp inner members 124 against the skin 80, which causes ablation. Thin layers of skin can thus be removed by the handpiece assembly 18. Additionally or alternatively, the spiral-like tip 34 may plane along skin when a fluid is applied to the skin. The planing tip 34 can remove a thin layer of the skin (e.g., the stratum corneum, preferably hydrated stratum corneum). Accordingly, the user can use the handpiece assembly 18 to remove a particular amount of skin.

[0098] A vacuum can be applied by the handpiece assembly 18. For example, the console 12 can have a pump that applies a vacuum via the output line 52. The negative pressure draws waste material into the through-holes 114 and out of the handpiece assembly 18. When the tip 34 engages the patient's skin, the vacuum can draw the skin against the tip 34 to enhance the effectiveness of the inner members 124. The vacuum can be increased or decreased to increase or decrease, respectively, for example, frictional forces, depth of cutting, amount of abrasion, and the like. To rapidly remove skin, a strong vacuum can be

applied to the person's skin so that the skin is pulled against the inner member 124. The vacuum can also facilitated removal of the waste fluid captured between the tip 34 and the patient's skin. A vacuum can also be used in combination with the tips illustrated in Figures 1-10E. The vacuum can also be varied based on the thickness, compliance, and other properties of the skin surface

[0099] The tip 34 can have any suitable number of through-holes 114, 122 to achieve the desired fluid flow between the skin 80 and the tip 34. For example, Figure 5A to 5D illustrate an embodiment with two through-holes 114. The number of through-holes 114, 122 can be chosen based on the cross-sectional areas of the through-holes 114, 122 and the expected flow rate of the fluid through the channel 100. Preferably, one end of through-holes 114 is positioned between the inner member 124 and the outer member 120. In some embodiments, including the embodiments illustrated in Figures 5A through 7, the through-holes 114 are positioned generally midway between the outer member 120 and inner member 124.

[0100] The tips can also have one or more energy sources for delivering energy to the skin. Radiant energy, heat, and the like can be delivered to the skin by the tips. The tip 34 illustrated in Figures 6A to 6D has a pair of energy sources 151 in the form of LEDs. When the tip 34 is proximate the patient's skin, the LEDs 151 can deliver a desired amount of energy to the skin. The illustrated tip 34 has four LEDs; however, any number of LEDs can be employed.

[0101] In alternative embodiments, the tips can carry deployable material. The structure 151 can be in the form of a cavity or pocket that contain and carry material that is released when it engages the treatment fluid. The material in the cavities 151 can be made of any of the treatment materials disclosed herein, and can be in a solid form. For example, the cavities can hold lubricant or soap that is released when the tip is applied to skin.

[0102] Figures 8A through 8D illustrate another embodiment of a tip 34 when the inner member 124 includes a ring with perforations 140 that provide fluid communication between the through-hole 122 and through-holes 114. A space 100 can be defined between the inner member 124, perforations 140, and outer member 120 when the tip 34 is in operative engagement with the skin 80. Figure 8C illustrates an embodiment with eight

through-holes 114. In the embodiment illustrated in Figures 8A through 8D, the inner member 124 forms recessed regions 171, allowing for a larger area of fluid contact with the skin 80 then the tips 34 illustrated in Figures 5 through 7.

[0103] Figures 9A through 9D illustrate another embodiment of a tip 34 comprising an outer member 120 and an array of protruding inner members 124. A recessed region 191 is defined between the inner members 124 and the outer member 120. The inner members 124 of Figures 9A to 9D can be posts that are similar to the inner members described above. The post 124, for example, can have relatively sharp edges. These edges can be used to remove skin. In some embodiments, the inner members 124 can have relatively sharp planing blades. The tip 34 illustrated in Figures 9A through 9D allows for more freedom of movement of the treatment fluid. The protruding inner members 124 preferably abrade the skin differently than the tips 34 illustrated in Figures 5A through 8. Rather than being able to ablate large sections of the skin 80 like a blade, as the tips 34 in Figures 5A-8 can do in certain embodiments, the plurality of protruding inner members 124 can ablate or roughen a plurality of smaller sections of the skin 80.

[0104] The protruding member 124 can optionally contain treatment material. For example, the protruding members 124 can be generally cylindrical members having a passageway or chamber 127 that holds treatment material. Thus, fluid can be used in combination with treatment material coupled to the tip 34.

[0105] With reference to Figures 5A through 9, the inner member 124 preferably has a height from the distal surface that is generally less than the height of the outer member 120. In some non-limiting embodiments, the height of the inner member 124 is less than 90%, 70%, 60%, 50%, and ranges encompassing such percentages of the height of the outer member 120. However, in other embodiments, the inner member 124 has a height that is generally greater than the height of the outer member 120. For example, the inner member 124 can have a height that is 10%, 20%, 30%, 40%, 50% greater than the height of the outer member 120. The inner member 124 can thus protrude from the tip 34. A skilled artisan can select a desired height of the inner member 124 and/or the outer member 120 to achieve the desired interaction with the person's skin 80.

[0106] Figures 10A through 10E illustrate another embodiment of a tip 34 comprising an outer member 120 and a pad 128. Figure 10E depicts the pad 128 removed from the tip 34. The tip 34 preferably has a mounting surface 227 that is surrounded by the outer member 120. The pad 128 can be permanently or temporarily coupled to the mounting surface 227.

[0107] The pad 128 preferably has a distal surface 224 configured to treat a person's skin. In some embodiments, the pad 128 is a disposable pad that comprises treatment material attached thereto. For example, the pad 128 may comprise vitamins, moisturizers, antioxidants, and the like. Preferably, the pad 128 comprises an adhesive proximal side and a distal side 224 including an abrasive surface. The abrasive surface can have grit, a plurality of members (e.g., members similar to the inner members 124 described above), or the like. The pad 128 can be permanently coupled to the mating surface 227 so that the tip 34 can be used for an extended length of time, or for multiple treatments. In alternative embodiments, the tip 34 is removable for maximum flexibility in selecting pad abrasiveness, and also allows the user to make changes to the tip 34 without changing the tip 34 in its entirety. The grit rating of abrasive surface of the distal surface 224 can be selected based on the desired rate of skin removal.

[0108] The illustrated pad 128 is generally elliptical and planar. In alternative embodiments, the pad 128 can be polygonal, circular, or have any other shape as desired. The pad 128 can have cutouts 225 that can match the through-holes 114, 122. The cutouts 225 can be aligned with the through-holes 114, 122 when the pad 128 is coupled to the mounting surface 227 of the tip 34, as shown in Figures 10A to 10D. The illustrated mounting surface 227 defines a plurality of tip flow channels 229 extending between the through-holes 114, 122. When the tip 34 is assembled, fluid can flow along the channels 229 between the main body 66 and the pad 128.

[0109] Various types of adhesives can be used to temporarily or permanently couple the pad 128 to the mounting surface 227. As used herein, the term "adhesive" is a broad term and includes, but is not limited to, coupling agents, glues, bonding materials, or the like. In some embodiments, for example, waterproof pressure sensitive adhesives are used for releasably coupling the pad 128 to the mounting surface 227. In some embodiments,

the pad 128 can be permanently coupled to the mounting surface 227. For example, the pad 128 can be bonded or fused to the main body 66. Additionally or alternatively, snap fittings, fasteners, or other coupling structures can be used to mount the pad 128.

[0110] The tip 34 described above can be used for wet or dry modes of operation. As such, the tip 34 can be used for wet exfoliation or dry exfoliation. In some embodiments, the tip 34 is used in a dry mode to remove a desired amount of skin. After removing a desired amount of skin, the tip 34 can be used in a wet mode on the same or different area of the patient's kin. During wet mode, fluid can be passed out of the tip 34 onto the patient's skin. The wet tip 34 can exfoliate, hydrate, and/or perform other types of treatments. Alternatively, the tip 34 can be used in a wet mode and than a dry mode. The sequence of wet and dry modes of operation can be selected based on the type of tip, treatment material, skin condition, and the like.

[0111] Although the handpiece assemblies are primarily discussed with respect to use with treatment material, the handpiece assemblies can be used without treatment material, i.e., the handpieces can be used in a dry procedure. Dry procedures can be used for non-hydration procedures and may require less post-procedure clean up.

[0112] Various fabrication techniques can be employed to make the tips 34 as mentioned above in connection with Figures 11A-11E. In some embodiments, the tips 34 are formed through a molding process, such as an injection or compression molding process. The tips 34 of Figures 5A to 5D, for example, can be monolithically formed through an injection molding process. Alternatively, the tip 34 of can have a multi-piece construction, if desired. The tips 34 can be made of polymers, rubbers, metals, or other suitable materials.

[0113] The tips 34 can also be fabricated in a multi-step process. For example, the main body 66 and skirt 64 can be formed in a single process. A textured surface (e.g., pad, inner members 124, etc.) can be applied to the main body 66 in a subsequent process. The textured surface can be formed by cutting, embossing, adding material (e.g., a pad, adhesive grit, etc.), a roughening implement, stamping process, or other suitable texturing means.

[0114] The tips can have associated treatment materials, including, for example, a medicament. As used herein, the term "medicament" is a broad term and includes, without

limitation, growth agents, growth factors or hormones, growth inhibitors, serums, treatment material, cleaners, vitamins, exfoliators, lubricants, or other substances that can be used to treat a patient's skin. The medicament can be associated with the tip 34 by imbedding, overlaying, coating, impregnation, co-mixing, absorption, or other suitable means for associating the medicament with the tip 34. The medicament can be hardened so that it can further enhance massaging and/or abrasion. In some embodiments, the medicament forms hardened grit that can be imbedded on the surface of the tip 34. The grit can work in combination with the inner members 124 to treat a person's skin. If a fluid is used, the fluid can facilitate the release of the medicament from the tip 34. In some embodiments, the medicament comprises or more bioactive substances, such as antibiotics, substances for accelerating the healing of the wound, cell proliferation agents, and the like. Such bioactive substances may be desirable because they contribute to the healing of damaged or removed skin, as well as reducing the likelihood of infection.

[0115] Figures 11A to 11E illustrate different cross-sections of inner members that can be used with the tips illustrated in Figures 1-10E. The inner member 124 of Figure 11A has generally sharp tip 253 for removing tissue. The tip 253 can have any suitable configuration for removing tissue from a patient. Figure 11B illustrates an inner member 124 that has a pair of cutting edges 253 and a generally trapezoidal shape. Figure 11C illustrates an inner member 124 that has a surface treatment 255 for treating a person's skin. The surface treatment 255 can be serrations, grooves, grit, roughed surface, protrusions, and the like. The type of surface treatment 255 can be selected based on the procedure to be performed. Figure 11D illustrates another inner member 124 having a pair of cutting edges 253. The cutting edges 253 are spaced from each other and protrude outwardly. The central portion 257 is generally V-shaped; however, the central portion 257 can have other configurations. For example, Figure 11E illustrates a central portion 257 that has a curved, semi-circular profile. In alternative embodiments, the inner member 124 can have more than two cutting edges.

[0116] The inner members 124 of Figures 11A to 11E can be formed by a molding process, such as an injection molding process. Additionally or alternatively, the inner members 124 can be formed by a machining process. For example, at least a portion of

the inner member 124 of Figures 11D to 11E can be formed through a machining process. In some embodiments, the central portion 257 can be formed by cutting material out of the inner member 124. The fabrication process (e.g., molding, injection molding, compression molding, machining, milling, etc.) can be selected based on the design of the inner members.

[0117] Referring again to Figure 1, the console 12 includes a manifold system 24 that holds containers 26 containing treatment fluids and/or antimicrobial agents. In a preferred embodiment, the console 12 holds four containers 26, three containing different treatment fluids and one containing an antimicrobial agent. In the illustrated embodiment, the largest container 26 holds antimicrobial agent for cleaning and sanitizing the fluid lines of the console 12. The containers 26 can also hold other suitable substances, such as surfactants, disinfectants, sanitizers, and the like, for cleaning and/or sanitizing the skin treatment system 10.

[0118] As shown in Figures 12 and 12A, the container 26 can be a fluid source such as a bottle comprising a body 262, a neck 264, and a closure assembly 266. The neck 264 includes a threaded neck finish and the closure 266 includes a threaded interior surface, allowing it to screw onto the neck 264. The closure 266 can be permanently or temporarily coupled to the neck 264. The illustrated bottle 26 is a non-refillable, disposable bottle. As used herein, the term "non-refillable" is a broad term that includes, but is not limited to, components that cannot be easily refilled with a treatment material. For example, the illustrated non-refillable bottle 26 cannot be refilled without substantial difficulty.

[0119] Bodies 262 of the containers 26 may be formed by stretch blow molding a preform into the desired shape. In other embodiments, the body 262 and a neck 264 can be formed by extrusion blow molding. For example, the bottle of Figure 13A can be formed by extrusion blow molding. The containers 26 can be made of polymers, thermosets, thermoplastic materials such as polyesters (e.g., polyethylene terephthalate (PET)), polyolefins, including polypropylene and polyethylene, polycarbonate, polyamides including nylons, epoxies, and/or acrylics. The material can be virgin or post-consumer/recycled. However, other suitable materials known in the art can also be used.

[0120] In some embodiments, including the illustrated embodiment of Figures 12 and 12B, the closure 266 is welded (e.g., induction welded) to an upper edge 269 of the neck

264. A sealing member 267 can be interposed between the upper edge of the neck 269 and the closure 266. In some embodiments, the sealing member 267 is made out of a conductive metal, such as aluminum, that preferably does not react with the fluid in the bottle 26. In other embodiments, the seal 267 comprises plastic, such as cellophane, polypropylene, or other suitable material, preferably suitable for coupling to the closure 266 and upper edge 269. In some embodiments, the sealing member 267 comprises metal that is at least partially coated with a polymer, such as polypropylene. Induction welding can be used to couple the polypropylene to the closure 266 and neck 264, both of which can also comprise polypropylene.

[0121] Figure 14A illustrates another embodiment of a bottle 26. The closure 266 includes locking members 268 that engage the neck 264, but do not allow removal of the closure 266 from the bottle 26 when assembled, as shown in Figure 13B. The locking closure 266 may include a sealing member 267, for example as described above.

[0122] In either of the embodiments illustrated in Figures 12 through 14B, the closure 266 may then be sealed with a second closure (not shown), creating multi-piece closures. For example, a screw cap can be threaded onto the external threads 273 at the top end of the closure 266. In these embodiments, the treatment fluid inside the bottle 26 may be accessed by puncturing or otherwise breaking the seal 267, for example with an insertion tip assembly 59 (see Figure 13A).

[0123] The insertion tip assembly 59 has an elongate member 161 that comprises a fluid pick up conduit 62 and lancing tip 64 extending from the distal end of the conduit 62. In the illustrated embodiment, the lancing tip 64 is a tubular member having a somewhat sharp distal end. To access treatment fluid in the bottle 26, the lancing tip 64 can be inserted into the closure passageway 73 of the closure 266. The lancing tip 64 can be advanced through the passageway 73 until it breaks the sealing member 267. The elongate member 161 can be sufficiently rigid such that it can break the sealing member 267 without buckling. The elongate member 161 can comprise metal, polymers, plastics, or any suitable material.

[0124] The fluid pick up conduit 62 and lancing tip 64 can be slid through the passageway 73 until the stop 91 is spaced from the upper edge of the closure 266. In alternative embodiments, the insertion tip assembly 59 can be slid through the passageway 73

until the stop 91 contacts the upper edge of the closure 266, as shown in Figure 12B. After the insertion tip assembly 59 and bottle 26 are assembled, as shown in Figure 12B, the treatment material can be draw upwardly through the lancing tip 64 and the fluid pick up conduit 62. The treatment material can flow through a passageway of the insertion tip assembly 59 and to the manifold assembly 24.

[0125] In certain embodiments, the treatment fluid applied from the containers 26 may be selected from the console 12 for a particular treatment or skin type. In one embodiment, the treatment fluid may comprise a skin rejuvenation serum. Skin rejuvenation serum cleans the skin 80 deeply while softening sebum and impurities to aid in extractions. Skin rejuvenation serum also assists in dislodging dead cells for extraction and exfoliation by the tip 34 as well as providing residual hydration that aids in firming and smoothing fine lines, resulting in clean, refined, and ultra-moisturized skin 80. Preferably, a skin rejuvenation treatment serum is active-4™, available from Edge Systems Corp., 2277 Redondo Ave., Signal Hill, CA, 90755, (800) 603-4996. In another embodiment, the treatment fluid may comprise a salicylic acid serum. A salicylic acid serum cleans oily skin deeply while softening sebum and impurities to aid in extraction and exfoliation by the tip 34. Hydration additives in the salicylic acid serum create an ultra-moisturized skin surface, and is blended to remain on the face for the best possible benefit. Preferably, a salicylic acid treatment fluid is beta-hd™, also available from Edge Systems Corp. In yet another embodiment, the treatment fluid may comprise antioxidants. The antioxidant serum is a hybrid that combats free radicals and environmental damage to the cells. The antioxidant serum is formulated with a blend of the most effective antioxidant ingredients. The antioxidant serum is an absorbable, leave-on service that improves the appearance of age signs as well as texture and clarity. Preferably, an antioxidant treatment fluid is antiox-6™, also available from Edge Systems Corp. The treatment fluids may comprise agents known to be beneficial to skin healing and/or hydration including but not limited to glucosamine, laminaria digitata extract, yeast extract, carbamide, lactic acid, sodium lactate, honey extract, pentylene glycol, spirea ulmaria extract, camellia sinensis leaf (white tea) extract, horse chestnut extract, stabilized vitamins A, B1, B6, B12, C, and E, tocopherol, inositol, calcium

panthothenate, linoleic acid, rosemarinus officinalis extract, biotin, and aloins such as anthraquinone gycosides, polysaccharides, sterols, gelonins, and chromones.

[0126] A single treatment may comprise the serial use of several treatment fluids from the containers 26. For example, the treatment of acne prone skin may comprise salicylic treatment followed by antioxidant treatment, the treatment of aging skin may comprise skin rejuvenator treatment followed by salicylic treatment followed by antioxidant treatment, the treatment of congestion (e.g., blackheads) may comprise skin rejuvenator treatment followed by salicylic treatment followed by antioxidant treatment, the treatment of damaged skin (e.g., due to medication or smoking) may comprise skin rejuvenator treatment followed by antioxidant treatment, the treatment of skin may comprise skin rejuvenator treatment followed by salicylic treatment followed by antioxidant treatment, the treatment of hyperpigmentation may comprise skin rejuvenator treatment followed by salicylic treatment followed by antioxidant treatment, the treatment of melasma may comprise skin rejuvenator treatment followed by salicylic treatment followed by antioxidant treatment, the treatment of sensitive skin may comprise skin rejuvenator treatment followed by antioxidant treatment, and the treatment of thin skin may comprise salicylic treatment followed by antioxidant treatment. Alternatively, a single treatment may comprise the parallel use of a combination of treatment fluids from the containers 26, for example using a handpiece with a plurality of input lumens 90 as described above. Treatment time with each treatment fluid is preferably about 2 to 20 minutes, but may be longer or shorter depending on the patient, the tip 34 used, and the treatment itself.

[0127] The treatment materials can be used for acne (e.g., by removing oils, bacteria, etc.), melasma, damaged skin (e.g., sun damaged skin, burns, free radical damage, etc.), extractions, skin lightening and/or brightening, skin lines (e.g., fine lines, wrinkles, creases, etc.), dry skin, and the like. The treatment materials can improve skin elasticity and overall health of the skin. For example, if the skin is damaged, antioxidants can be applied to damaged area. Accordingly, the skin treatment system 10 can be used to improve the health, appearance, and/or function of a person's skin.

[0128] Additionally, the line 20 may be periodically flushed with a fluid (e.g., a antimicrobial fluid, water, etc.) contained in one of the containers 26. Antimicrobial fluids

can contain any disinfecting agent compatible with skin including, but not limited to, butylene glycol, phenoxyethanol, and methyl isothiazolinone. Preferably, an antimicrobial fluid is rinseaway™, available from Edge Systems Corp. The line 20 should be flushed with antimicrobial fluid at least at the end of each service day. Flushing with antimicrobial fluid is more important when the system is not used for consecutive days.

[0129] As illustrated in Figure 1, the console 12 comprises the manifold system 24 designed to draw treatment fluid from at least one of the containers 26 based on user selection. The manifold system 24 may include switches 29, each corresponding to one of the bottles. The switches 29 can be used to control fluid flow from the containers 26. The illustrated switches 29 can be used to turn Off/On to permit or prevent fluid flow from the bottles 26. The illustrated manifold system 24 has a switch corresponding to each bottle 26. As such, the switches can be used to independently control fluid flow from each of the bottles 26. In other embodiments, a single switch can be used to control the flow of treatment fluid from more than one of the bottles 26.

[0130] With continued reference to Figure 1, the button 246 can be operated to release a corresponding bottle 26 from the manifold system 24. Figure 15A is front perspective view an embodiment in which the manifold system 24 contains quick-release locks connected to the button 246, wherein the quick-release locks capture the containers 26. As illustrated in Figures 14B and 14C, the quick-release locks 242 engage the closure 266 when the bottle 26 is inserted into the manifold system 24. When the quick-release lock 242 is manually engaged by a user, for example by pulling the button 246, a slide structure 249 surrounding the closure 266 releases, thereby releasing the bottle 26 from the manifold system 24.

[0131] Figure 15E illustrates the slide structure 249 holding the neck 264 of the bottle 26 in an elongated slot 309. The button 246 can be pushed inwardly (indicated by the arrow 313) so that the neck 264 is positioned within the enlarged aperture 317. The bottle 26 can then slide downwardly out of the manifold system 24. The bottle 26 can be replaced with another bottle 26.

[0132] To couple the bottle 26 to the manifold system 24, the closure 266 can be inserted through the aperture 317 of the slide structure 249 when the button 246 is pushed in.

Once the closure 266 engages the stop surface 333 (Figure 15C), the spring 247 can push the slide structure 249 until the flange 335 of the bottle 26 rests on the slide structure 249, as shown in Figure 15C. In such a position, the manifold system 24 securely holds the bottle 26. The illustrated slide structure 249 has a sloped portion 269 that can cam along the flange 335 as the button 246 moves outwardly. Accordingly, the slide member 249 can push the closure 266 upwardly until the closure 266 is locked with the manifold 24, as shown in Figure 15C. The quick-release lock 242 is loaded with spring 247 such that the slide structure 249 is biased towards the button 246.

[0133] The manifold system 24 can have a modular design so that it can be removed from the console 12. In some embodiments, the manifold system 24 and associated containers 26 can be removed and transported away from the console 12. Accordingly, the modular manifold systems can be interchanged to provide treatment flexibility. Alternatively, the manifold system 24 can be permanently mounted to the console 12.

[0134] Figures 15B and 15C illustrate cross-sectional views of the manifold system 24 taken along lines 15B-15B and lines 15C-15C, respectively. Both Figures 15B and 15C show the fluid pick up conduit 62 in operative engagement with the bottle 26 through the seal 267. Suction device(s) is preferably in fluid communication with the fluid pick up conduit 62, and draws fluid out of the bottle 26 through the fluid pick up conduit 62. The fluid can flow through a passageway 161 (see Figure 15C) extending through the pick up conduit 62. The fluid can flow to and through the lumen 171 towards the line 20. If the switch 29 is off, the fluid from one or more of the upstream bottles can flow along the passage 173. The manifold system 24 then directs the fluid into the line 20.

[0135] In certain embodiments, including the embodiment of Figure 1, the console 12 comprises a computer with display 32. In one embodiment, the display 32 is a user input device comprising a touch screen that controls the computer. In other embodiments, the computer may be controlled by input devices such as a keyboard, keypad, mouse, pointing device, or other input device. The computer controls a variety of functions in the console 12. For example, the computer may control the manifold system 24, and thereby the flow of treatment fluids from the containers 26. In one embodiment, the fluid flowing through the line 20 can be changed by pressing a single button on the touch screen

display 32. In another embodiment, the computer contains teaching tutorials that are exhibited on the display 32. In yet another embodiment, the user may change program chips within the computer according to treatment and/or patient. In still another embodiment, the computer records patient and treatment data, for example data gathered during treatment.

[0136] The console 12 can also comprise a mechanical system for controlling fluid flow from the containers to the handpiece. One or more pumps, valves, fluid lines, and the like can cooperate to deliver fluid from the containers to the handpiece. The console 12 can be powered pneumatically, electrically, or by any other suitable powering means. The mechanically drive console 12 can have manual controls for controlling fluid flow to the handpiece.

[0137] The console 12 can also comprise additional handpieces suitable for other types of skin treatment. These additional handpieces can be used for pre-treatment or post-treatment in combination with other modalities. For example, the console 12 may include a handpiece for diamond tip abrasion, or "crystal-free" microdermabrasion, as described above. Such a handpiece may be useful for more aggressive treatments, in addition to treatment with the handpiece assembly 18. The diamond tips can range from fine to extra coarse.

[0138] In some embodiments, the console 12 comprises a handpiece including at least one light emitting diode (LED). Light therapy has been shown to improve skin. For example, red light between about 600 and about 700 nanometers and infrared LED light between about 700 and about 1,000 nanometers reduces the appearance of fine lines and superficial hyperpigmentation. For another example, blue LED light at about 430 nanometers improves the appearance of oily and acne-prone skin. Other benefits of light therapy include promotion of collagen production, increased circulation and moisture retention, smoothing of skin texture, and improvement of skin firmness and resilience.

[0139] The console 12 can comprise handpieces for vacuum therapy such as lymphatic drainage and cellulite massage. Vacuum therapy enhances the effects of treatment with the handpiece assembly 18 and LED light therapy. Preferably, the vacuum therapy handpieces are sized appropriately for facial massage and body massage. An example of a multi-modality protocol using a plurality of handpieces comprises diamond tip abrasion, treatment with handpiece assembly 18 and at least one treatment fluid from containers 26,

vacuum therapy, red light therapy, and application of sunscreen, for example at a minimum skin protection factor (SPF) of 15. The various modalities may be included and ordered by the user depending on the desired outcome of the overall treatment.

[0140] The console 12 optionally includes any of a plurality of additional features. For example, a digital camera may be used to take pictures of the patient before and after treatment, and the pictures may be stored on the computer. The computer may hold client medical and treatment records. The computer may be connected to a network. The console 12 may store disks. The console 12 may include an ultrasound unit. The console 12 may include a stimulator, such as an electrical stimulator. The console 12 may include an iontophoresis handpiece. The number of additional features is limitless when considering the range of features that a user may wish to incorporate with the treatment provided by the handpiece assembly 18.

[0141] Figure 16 depicts another embodiment of the skin treatment system 10, which may be generally similar to the embodiment illustrated in Figure 1, except as further detailed below. Where possible, similar elements are identified with identical reference numerals in the depiction of the embodiment of Figure 1.

[0142] The line 20 includes an output line 50 for removing waste from the handpiece assembly 18 and an input line 52 for delivering treatment material to the handpiece assembly 18. A valve 300 can be disposed along the input line 52 to inhibit backflow of treatment material. The console 12 can pump treatment material through the input line 52 to the handpiece assembly 18 when the handpiece assembly 18 is applied to the person's skin, as detailed above. The fluid flow through the input line 52 can be reduced or stopped so that the handpiece assembly 18 can be removed from the patient's skin. The valve 300 can inhibit the flow of fluid through the input line 52 towards the console 12. A desired amount of treatment material can therefore be contained in the handpiece assembly 18 and the section 310 of the input tubing 52 extending between the valve 300 and the handpiece assembly 18. When the handpiece assembly 18 is applied to a patient's skin, a vacuum can be applied to the output line 50. The vacuum can draw the treatment material out of the handpiece assembly 18 without a substantial or noticeable delay.

[0143] In some embodiments, the valve 300 can be a one-way valve, such as a duckbill valve, check valve, or other type of valve for inhibiting fluid flow. In alternative embodiments, the valve 300 can comprises a plurality of valves (e.g., one-way valves, flow regulators, adjustable valves, etc.).

[0144] Figure 17 is a cross-sectional view of the line 20. The input and output lines 50, 52 can have different or similar cross sectional flow areas. The illustrated output line 50 has a passageway 312 with a diameter that that is less than the diameter of a passageway 314 of the input line 52. Accordingly, a relatively large slug of treatment material can be stored in the section 310 extending distally from the valve 300 to the handpiece assembly 18. The slug can be quickly delivered out of the handpiece assembly 18 once the handpiece assembly is applied to a patient's skin as detailed above.

[0145] In some embodiments, the section 310 of the output line 50 has a length L greater than 6 inches, 12 inches, 18 inches, 24 inches, and ranges encompassing such lengths. In some embodiments, the section 310 of the output line 50 has a length L greater than 24 inches, 30 inches, 36 inches, and ranges encompassing such lengths. The passageway 312 can have a cross-sectional area that is at least 10%, 30%, 50%, 75%, or 100% greater than the cross-sectional area of the passageway 314. The length L and the diameters of the passageways 312, 314 can be selected based on the desired amount of treatment material to be stored in the line 20, delivery and removal rates.

[0146] Figures 18 and 19 illustrate a modular handpiece assembly 360 having a cartridge 362 containing treatment material. The illustrated handpiece assembly 360 can be used to deliver treatment material from the cartridge 362. The main body 30 can have a pump for pressuring the treatment material. In one embodiment, the fluid control device includes a power supply, such as a battery, which provides power to electrical components (e.g., pumps or valves) of the handpiece assembly 360. The power supply can be a battery that is preferably disposed within the main body 30 of the handpiece assembly 360. In one arrangement, the battery is a rechargeable battery that can be connected to and recharged by an AC power supply, such as a typical residential electrical outlet. Alternatively, the handpiece assembly 360 can be directly powered by an AC power supply. The power supply can provide power to several components of the handpiece assembly 360. For example, the

power supply can provide power to a plurality of fluid control devices 330 and/or a flow control unit. A control switch 371 can be used to turn the handpiece assembly 360 Off/On and/or control the output of the handpiece assembly 360.

[0147] In operation, the cartridge 362 can be inserted into the main body 30. The handpiece assembly 360 can be applied to a patient's skin to deliver treatment material from the cartridge 362 to the patient's skin. After delivering a desired amount of treatment material, the cartridge 362 can be separated from the main body 30. The cartridge 362 can be a one-use or multi-use cartridge. For example, the cartridge can be a non-refillable disposable cartridge.

[0148] The tip 34 can also be used to remove hair or perform other skin treatments. For example, the tip 34 can include one or more razor blades and may be configured to apply a treatment material (e.g., antioxidents, vitamins, serums, growth agents, etc.) to the skin during the shaving process. In such embodiments, the main body 30 can be an elongated handle that is connected to a transversely extending elongate tip 34. In some embodiments, the handpiece assembly can be in the form of a disposable handheld razor. The treatment material can reduce or substantially eliminate problems associated with wet or dry shaving systems. These treatment materials may be applied prior to, during, before, and/or after shaving.

[0149] The articles disclosed herein may be formed through any suitable means. The various methods and techniques described above provide a number of ways to carry out the invention. Of course, it is to be understood that not necessarily all objectives or advantages described may be achieved in accordance with any particular embodiment described herein. Thus, for example, those skilled in the art will recognize that the methods may be performed in a manner that achieves or optimizes one advantage or group of advantages as taught herein without necessarily achieving other objectives or advantages as may be taught or suggested herein.

[0150] Furthermore, the skilled artisan will recognize the interchangeability of various features from different embodiments disclosed herein. Similarly, the various features and steps discussed above, as well as other known equivalents for each such feature or step, can be mixed and matched by one of ordinary skill in this art to perform methods in

accordance with principles described herein. Additionally, the methods which are described and illustrated herein are not limited to the exact sequence of acts described, nor are they necessarily limited to the practice of all of the acts set forth. Other sequences of events or acts, or less than all of the events, or simultaneous occurrence of the events, may be utilized in practicing the embodiments of the invention.

[0151] Although the invention has been disclosed in the context of certain embodiments and examples, it will be understood by those skilled in the art that the invention extends beyond the specifically disclosed embodiments to other alternative embodiments and/or uses and obvious modifications and equivalents thereof. Accordingly, it is not intended that the invention be limited, except as by the appended claims.

Electronic Patent Application Fee Transmittal	
Application Number:	
Filing Date:	
Title of Invention:	DEVICES AND METHODS FOR TREATING SKIN
First Named Inventor/Applicant Name:	Roger Ignon
Filer:	Theodore G. Papagiannis/Jayne Clodfelter
Attorney Docket Number:	EDGE.005C7
Filed as Small Entity	
Filing Fees for Utility under 35 USC 111(a)	

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Basic Filing:				
UTILITY FILING FEE (ELECTRONIC FILING)	4011	1	75	75
UTILITY SEARCH FEE	2111	1	330	330
UTILITY EXAMINATION FEE	2311	1	380	380
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				
Miscellaneous:				
		Total in USD ($)		**785**

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RAM confirmation Number	072219INTEFSW17333602
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1	Application Data Sheet	EDGE005C7_ADS.pdf	1256699 113949980f99d8111be47fe89bf1d60d6e5f071e	no	10
Warnings:					
Information:					
2	Oath or Declaration filed	EDGE005C7_Decls.pdf	5525006 234371286841 71ab6cc501de3b9e5b7e6d6fb0cf	no	5
Warnings:					
Information:					
3	Drawings-only black and white line drawings	EDGE005C7_Figs.pdf	619959 4ba63c52451906291dc2220b91a9857e62e5971a	no	25
Warnings:					
Information:					
4		EDGE005C7_Spec.pdf	165979 d538abeb2430e18741a101291f5db92a793b4837	yes	34

Multipart Description/PDF files in .zip description		
Document Description	**Start**	**End**
Abstract	34	34
Claims	33	33
Specification	1	32

Warnings:					
Information:					
5	Fee Worksheet (SB06)	fee-info.pdf	35040 d17d68f4fcde9527a10fd249086cccfac0fc0ff4	no	2

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New Applications Under 35 U.S.C. 111
If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.
National Stage of an International Application under 35 U.S.C. 371
If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.
New International Application Filed with the USPTO as a Receiving Office
If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.