UNITED STATES PATENT AND TRADEMARK OFFICE

CERTIFICATE OF CORRECTION

PATENT NO. : 11,865,287 B2
APPLICATION NO. : 18/094884
DATED : January 9, 2024
INVENTOR(S) : Roger Ignon et al.

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

On the Title Page

Item (63), Page 2, Column 1, under Related U.S. Application Data, Lines 2-4, delete:
"which is a continuation of application No. 15/660,777, filed on Jul. 26, 2017, now Pat. No. 10,357,642,"

Item (63), Page 2, Column 1, under Related U.S. Application Data, Lines 8-12, delete:
"which is a continuation of application No. 14/698,713, filed on Apr. 28, 2015, now Pat. No. 9,662,482, which is a continuation of application No. 14/698,673, filed on Apr. 28, 2015, now Pat. No. 9,550,052,"

Signed and Sealed this
Fourteenth Day of May, 2024

Katherine Kelly Vidal

Katherine Kelly Vidal
Director of the United States Patent and Trademark Office

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.
18/094,884	01/09/2023	Roger Ignon	EDGE.005C10	9223

20995 7590 05/14/2024

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
05/14/2024	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):

Atty.AdminCoordinator@knobbe.com
efiling@knobbe.com

APPLICATION NO.	ISSUE DATE	PATENT NO.
18/094,884	14-May-2024	11865287

Knobbe, Martens, Olson & Bear, LLP
2040 MAIN STREET
IRVINE, CA 92614

ELECTRONIC CERTIFICATE OF CORRECTION NOTIFICATION

Your electronic certificate of correction is now available, and can be accessed via Patent Center at https://patentcenter.uspto.gov.

The electronic certificate of correction is the official certificate of correction under 35 U.S.C. 254 or 255. For more information, please visit https://www.uspto.gov/electronicgrants.

UNITED STATES PATENT AND TRADEMARK OFFICE

CERTIFICATE OF CORRECTION

PATENT NO. : 11,865,287 B2
APPLICATION NO. : 18/094884
DATED : January 9, 2024
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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
18/094,884	01/09/2023	Roger Ignon	EDGE.005C10	9223

20995 7590 04/24/2024

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EXAMINER	
KNAUSS, CHRISTIAN D	

ART UNIT	PAPER NUMBER
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NOTIFICATION DATE	DELIVERY MODE
04/24/2024	ELECTRONIC

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UNITED STATES PATENT AND TRADEMARK OFFICE

Commissioner for Patents
United States Patent and Trademark Office
P.O. Box 1450
Alexandria, VA 22313-1450
www.uspto.gov

Patent No.: 11865287
Issue Date: 01/09/2024
Appl. No.: 18/094,884
Filed: 01/09/2023

PART (A) RESPONSE FOR CERTIFICATES OF CORRECTION

This is a decision on the Certificate of Correction request filed 08 April 2024.

The request for issuance of Certificate of Correction for the above-identified correction(s) under the provisions of 37 CFR 1.322 and/or 1.323 is hereby:

(Check one)
☑ Approved ☐ Approved in Part ☐ Denied

Comments: ____

PART (B) PETITION UNDER 37 CFR 1.324 OR 37 CFR 1.48

☐ This is a decision on the petition filed ____ to correct inventorship under 37 CFR 1.324.

☐ This is a decision on the request under 37 CFR 1.48, petition filed ____. In view of the fact that the patent has already issued, the request under 37 CFR 1.48 has been treated as a petition to correct inventorship under 37 CFR 1.324.

The petition is hereby: ☐ Granted ☐ Dismissed

Comment: ____

The patented filed is being forwarded to Certificate of Corrections Branch for issuance of a certificate naming only the actual inventor or inventors.

/DARWIN P EREZO/
Supervisory Patent Examiner, Art Unit 3771
Technology Center 3700
Phone: (571)272-4695

Certificates of Correction Branch email: CustomerServiceCoC@uspto.gov CoC Central Phone Number: (703) 756-1814

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
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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
18/094,884	01/09/2023	Roger Ignon	EDGE.005C10	9223

20995 7590 04/22/2024

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
04/22/2024	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):

Atty.AdminCoordinator@knobbe.com
efiling@knobbe.com

UNITED STATES PATENT AND TRADEMARK OFFICE

Commissioner for Patents
United States Patent and Trademark Office
P.O. Box 1450
Alexandria, VA 22313-1450
www.uspto.gov

In re Patent No. 11,865,287
Issue Date: 9 Jan 2024
Application No. 18/094,884
Filing or 371(c) Date: 9 Jan 2023
Attorney Docket No. EDGE.005C10

DECISION ON PETITION

This is a decision on the renewed petition under 37 CFR 1.78(e), filed April 8, 2024, to accept an unintentionally delayed claim under 35 U.S.C. 120 for the benefit of priority to the prior-filed nonprovisional applications listed in the application data sheet (ADS), filed March 12, 2024. In addition, this decision addresses the petition under 37 CFR 1.182, filed April 8, 2024, to expedite consideration of the aforementioned delayed benefit petition.[1]

The petition under 37 CFR 1.182 is **GRANTED**. The petition under 37 CFR 1.78 (e), filed April 8, 2024, is being taken up for consideration on an expedited basis.

The petition under 37 CFR 1.78(e) is **GRANTED**.

The present application matured into U.S. Patent No. 11,865,287 on January 9, 2024.

Under certain conditions as specified below, a Certificate of Correction can be used to correct:

(A) the failure to make reference to a prior application; or
(B) an incorrect reference to a prior application.

The following conditions must be satisfied:

(A) all requirements set forth in 37 CFR 1.78(a)(1) must have been met in the application which became the patent to be corrected;
(B) it must be clear from the record of the patent and the parent application(s) that priority is appropriate (see MPEP § 211et seq.); and
(C) a grantable petition to accept an unintentionally delayed claim for the benefit of a prior application must be filed.

[1] The Office acknowledges receipt of the required $420 petition fee.

If all the above-stated conditions are satisfied, a Certificate of Correction can be used to amend the patent to make reference to a prior application, or to correct an incorrect reference to a prior application.

A petition for acceptance of a claim for late priority under 37 CFR 1.78(e) is only applicable to those applications in which a proper benefit claim is filed after the expiration of the period specified in 37 CFR 1.78(d)(3). In addition, the petition under 37 CFR 1.78(e) must be accompanied by:

(1) the reference required by 35 U.S.C. 120 and 37 CFR 1.78(d)(2) of the prior-filed application, which must be filed in an ADS, unless previously submitted;
(2) the petition fee set forth in § 1.17(m); and
(3) a statement that the entire delay between the date the claim was due under 37 CFR 1.78(d)(3) and the date the claim was filed was unintentional. The Director may require additional where there is a question whether the delay was unintentional.

On March 12, 2024, petitioner filed a corrected ADS in compliance with 37 CFR 1.76(c) listing a proper reference, the $2100 petition fee, and an acceptable draft an acceptable statement that the entire delay between the date the claim was due under 37 CFR 1.78(d)(3) and the date the claim was filed was unintentional. On April 8, 2024, petitioner filed a certificate of correction correcting (63) Related U.S. Application Data on the front page of the Letters Patent and a $160 certificate of correction fee. As petitioner states in the March 12, 2024 petition, the Reference to Related Applications in column 1 of the patent recites the proper benefit information.

As the petitions of record satisfy the requirements to add or correct a reference to the prior-filed nonprovisional applications in a patent via a certificate of correction, the Office accepts the benefit claim under 35 U.S.C. 120 as unintentionally delayed. Therefore, it is appropriate for petitioner to add the claim under 35 U.S.C. 120 for benefit of the prior-filed nonprovisional applications via certificate of correction.

A replacement filing receipt, which includes the claim for benefit of the prior-filed nonprovisional applications will be mailed separately.

Petitioner is advised that this decision grants the petition to accept the unintentionally delayed domestic benefit claim to the prior filed applications because the petition requirements of 37 CFR 1.78 and the formal requirements for claiming domestic benefit (*see* MPEP 211.01 et. seq.) have been met. This acceptance should not be construed as meaning that any claim in this patent is entitled to the benefit of the prior-filed applications. *See* MPEP 211.05 for more information regarding entitlement to domestic benefit.

This application is being referred to the Certificates of Correction Branch for processing the request for a certificate of correction, in accordance with this decision.

Any inquiries concerning this decision may be directed to the undersigned at (571) 272-3230.

/SHIRENE W BRANTLEY/
Attorney Advisor, OPET

PETITION TO EXPEDITE PURSUANT TO 37 C.F.R. §1.182

First Inventor: Roger Ignon	**Conf. No.:** 9223
Appl. No.: 18/094,884	**Filed:** January 9, 2023
Patent No.: 11,865,287	**Issue Date:** January 9, 2024
Title: DEVICES AND METHODS FOR TREATING SKIN	

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

Dear Commissioner:

Patent Holder hereby requests that the Office expedite consideration of the Renewed Petition for Acceptance of an Unintentionally Delayed Correction of a Benefit Claim under 37 C.F.R. §1.78(e) filed concurrently herewith.

A Petition to Expedite was filed on March 12, 2024 with a Petition for Acceptance of an Unintentionally Delayed Correction of a Benefit Claim. Accordingly, if review of the Renewed Petition will be expedited based on that initial Petition to Expedite and an additional petition fee is not required, Commissioner is hereby requested to refund the petition fee provided herewith. Commissioner is authorized to charge the fee set forth in 37 C.F.R. §1.17(f), charge any necessary additional fees and/or issue a refund to Deposit Account No. 11-1410.

Respectfully submitted,

KNOBBE, MARTENS, OLSON & BEAR, LLP

Dated: April 8, 2024

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

59367091

REQUEST FOR CERTIFICATE OF CORRECTION

First Inventor: Roger Ignon	**Conf. No.:** 9223
Appl. No.: 18/094,884	**Filed:** January 9, 2023
Patent No.: 11,865,287	**Issue Date:** January 9, 2024
Title: DEVICES AND METHODS FOR TREATING SKIN	

Commissioner for Patents
Office of Data Management
Attention: Certificates of Correction Branch
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Commissioner:

Enclosed for filing is a Certificate of Correction in connection with the above-identified patent. This Request and Certificate of Correction are being submitted concurrently with a renewed Petition under 37 CFR §1.78(e).

Errors cited in the Certificate of Correction are being corrected pursuant to 35 USC §255, 37 CFR §1.323, and MPEP §1481. The fee of $160 is submitted herewith pursuant to 37 CFR §1.20(a). Please charge any additional fees that are necessary to Deposit Account No. 11-1410.

Patent Holder kindly requests the processing of the Certificate of Correction to be expedited.

Respectfully submitted,

KNOBBE, MARTENS, OLSON & BEAR, LLP

Dated: April 8, 2024

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

593333974

UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

PATENT NO. : 11,865,287
APPLICATION NO. : 18/094884
ISSUE DATE : January 9, 2024
INVENTOR(S) : Roger Ignon et al.

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Item (63), Page 2, Column 1, under Related U.S. Application Data, lines 2-4, delete

"which is a continuation of application No. 15/660,777, filed on Jul. 26, 2017, now Pat. No. 10,357,642, "

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"which is a continuation of application No. 14/698,713, filed on Apr. 28, 2015, now Pat. No. 9,662,482, which is a continuation of application No. 14/698,673, filed on Apr. 28, 2015, now Pat. No. 9,550,052, "

MAILING ADDRESS OF SENDER:

Theodore G. Papagiannis
KNOBBE, MARTENS, OLSON & BEAR, LLP
2040 Main Street, 14th Floor
Irvine, California 92614

DOCKET NO. EDGE.005C10

PTO/SB/44 Equivalent

UNITED STATES
PATENT AND TRADEMARK OFFICE

P.O. Box 1450
Alexandria, VA 22313 - 1450
www.uspto.gov

ELECTRONIC ACKNOWLEDGEMENT RECEIPT

APPLICATION #	RECEIPT DATE / TIME	ATTORNEY DOCKET #
18/094,884	**04/08/2024 09:10:10 PM Z ET**	**EDGE.005C10**

Title of Invention

DEVICES AND METHODS FOR TREATING SKIN

Application Information

APPLICATION TYPE	Utility - Nonprovisional Application under 35 USC 111(a)	PATENT #	11865287
CONFIRMATION #	9223	FILED BY	Will Nguyen
PATENT CENTER #	65012021	FILING DATE	01/09/2023
CUSTOMER #	20995	FIRST NAMED INVENTOR	Roger Ignon
CORRESPONDENCE ADDRESS	-	AUTHORIZED BY	Theodore Papagiannis

Documents

TOTAL DOCUMENTS: 3

DOCUMENT	PAGES	DESCRIPTION	SIZE (KB)
EDGE-005C10_EXPEDITE.pdf	1	Petition for review by the Office of Petitions	18 KB
EDGE-005C10_COC.pdf	2	Request for Certificate of Correction	35 KB
EDGE-005C10_PETITION.pdf	2	Petition for review by the Office of Petitions	22 KB

Digest

DOCUMENT	MESSAGE DIGEST(SHA-512)

EDGE-005C10_EXPEDITE.pdf	271170DF103CD7C484225AF443ADC7715C078806BFC2F561A 93943F5EEEA54E2D174CBF26CF503E931FE92B5FE8C4A6D13 CB0E7017D319BA669EADAD37C080EA
EDGE-005C10_COC.pdf	A63FF092901F19B55CFA969DA5092F347E825D06B4C91ACF5 AE6EF18A1FFE2CC0AB453B9955F28CD09A50629705E6CDD6 AA281C2B845D0407B58D488B3E95182
EDGE-005C10_PETITION.pdf	132DB62F7ADCF3F7080AAB9BB9D66E3FC7D43CB5DE68D49A 1721AEBB3AA565C245EC3934196ADD25EE08E19926AFBF9F0 ED84CB1334AF3F6D618AC6E49067A64

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 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

P.O. Box 1450
Alexandria, VA 22313 - 1450
www.uspto.gov

ELECTRONIC PAYMENT RECEIPT

APPLICATION #	RECEIPT DATE / TIME	ATTORNEY DOCKET #
18/094,884	04/08/2024 09:10:10 PM Z ET	EDGE.005C10

Title of Invention

DEVICES AND METHODS FOR TREATING SKIN

Application Information

APPLICATION TYPE	Utility - Nonprovisional Application under 35 USC 111(a)	PATENT #	11865287
CONFIRMATION #	9223	FILED BY	Will Nguyen
PATENT CENTER #	65012021	AUTHORIZED BY	Theodore Papagiannis
CUSTOMER #	20995	FILING DATE	01/09/2023
CORRESPONDENCE ADDRESS	-	FIRST NAMED INVENTOR	Roger Ignon

Payment Information

PAYMENT METHOD	PAYMENT TRANSACTION ID	PAYMENT AUTHORIZED BY
CARD / 3923	E202448L11176410	Jennifer Neat

PRE-AUTHORIZED ACCOUNT	PRE-AUTHORIZED CATEGORY
111410	37 CFR 1.16 (National application filing, search, and examination fees); 37 CFR 1.17 (Patent application and reexamination processing fees)

FEE CODE	DESCRIPTION	ITEM PRICE($)	QUANTITY	ITEM TOTAL($)
1811	CERTIFICATE OF CORRECTION	160.00	1	160.00
1462	PETITIONS REQUIRING THE PETITION FEE SET FORTH IN 37 CFR 1.17(F) (GROUP I)	420.00	1	420.00
			TOTAL AMOUNT:	$580.00

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RENEWED PETITION FOR ACCEPTANCE OF AN UNINTENTIONALLY DELAYED CORRECTION OF A BENEFIT CLAIM UNDER 37 C.F.R. §1.78(e)

First Inventor: Roger Ignon	**Conf. No.:** 9223
Appl. No.: 18/094,884	**Filed:** January 9, 2023
Patent No.: 11,865,287	**Issue Date:** January 9, 2024
Title: DEVICES AND METHODS FOR TREATING SKIN	

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

Dear Commissioner:

In response to the Decision on Petition having a notification date of April 2, 2024 (the "Decision"), Patent Owner submits this Renewed Petition for Acceptance of an Unintentionally Delayed Correction of a Benefit Claim under 37 CFR §1.78(e). Patent Owner respectfully requests reconsideration of the Decision and respectfully requests that the petition for acceptance of an unintentional delayed priority claim be granted.

The Decision notes that the Petition for Acceptance of an Unintentionally Delayed Correction of a Benefit Claim under 37 CFR §1.78(e) filed on March 12, 2024 (the "Original Petition") was dismissed due to failure to satisfy Item (1) under 37 C.F.R. §1.78(e). Specifically, the Decision states that a Certificate of Correction should be submitted. This Renewed Petition pursuant to 37 C.F.R. §1.78(e) petition is accompanied by a Request for Certificate of Correction, Certificate of Correction and required Certificate of Correction fee. Accordingly, Patent Owner respectfully requests that the Original Petition, which is incorporated and made part of the present Renewed Petition, be renewed, reconsidered and granted.

Patent Owner respectfully requests the Office to update the priority claim in accordance with this request and issue a Corrected Filing Receipt and Certificate of Correction. Patent Owner kindly requests the processing of the Certificate of Correction to be expedited.

Pursuant to the instructions provided in the Decision, Patent Owner believes that only the $160 Certificate of Correction fee is due on the renewed petition. Patent Owner notes that a Petition to Expedite Pursuant to 37 C.F.R. §1.182 is being filed herewith to expedite the processing of the Renewed Petition. The required fee for the petition to expedite is also provided.

Commissioner is hereby authorized to charge any additional fee required for this request, if determined that additional petition fee is required, to Deposit Account No. 11-1410.

Respectfully submitted,

KNOBBE, MARTENS, OLSON & BEAR, LLP

Dated: April 8, 2024

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

59334415

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
18/094,884	01/09/2023	Roger Ignon	EDGE.005C10	9223

20995 7590 04/02/2024

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EXAMINER	
KNAUSS, CHRISTIAN D	

ART UNIT	PAPER NUMBER
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NOTIFICATION DATE	DELIVERY MODE
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Commissioner for Patents
United States Patent and Trademark Office
P.O. Box 1450
Alexandria, VA 22313-1450
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In re Patent No. 11,865,287
Issue Date: 9 Jan 2024
Application No. 18/094,884
Filing or 371(c) Date: 9 Jan 2023
Attorney Docket No. EDGE.005C10

DECISION ON PETITION

This is a decision on the petition under 37 CFR 1.78(e), filed March 12, 2024, to accept an unintentionally delayed claim under 35 U.S.C. 120 for the benefit of priority to the prior-filed nonprovisional applications listed in the concurrently filed application data sheet (ADS). In addition, this decision addresses the petition under 37 CFR 1.182, filed March 12, 2024, to expedite consideration of the aforementioned delayed benefit petition.[1]

The petition under 37 CFR 1.182 is **GRANTED**. The petition under 37 CFR 1.78 (e), filed March 12, 2024, is being taken up for consideration on an expedited basis.

The petition under 37 CFR 1.78(e) is **DISMISSED**.

The present application matured into U.S. Patent No. 11,865,287 on January 9, 2024.

Under certain conditions as specified below, a Certificate of Correction can be used to correct:

(A) the failure to make reference to a prior application; or
(B) an incorrect reference to a prior application.

The following conditions must be satisfied:

(A) all requirements set forth in 37 CFR 1.78(a)(1) must have been met in the application which became the patent to be corrected;
(B) it must be clear from the record of the patent and the parent application(s) that priority is appropriate (see MPEP § 211et seq.); and
(C) a grantable petition to accept an unintentionally delayed claim for the benefit of a prior application must be filed.

[1] The Office acknowledges receipt of the required $420 petition fee.

If all the above-stated conditions are satisfied, a Certificate of Correction can be used to amend the patent to make reference to a prior application, or to correct an incorrect reference to a prior application.

A petition for acceptance of a claim for late priority under 37 CFR 1.78(e) is only applicable to those applications in which a proper benefit claim is filed after the expiration of the period specified in 37 CFR 1.78(d)(3). In addition, the petition under 37 CFR 1.78(e) must be accompanied by:

(1) the reference required by 35 U.S.C. 120 and 37 CFR 1.78(d)(2) of the prior-filed application, which must be filed in an ADS, unless previously submitted;
(2) the petition fee set forth in § 1.17(m); and
(3) a statement that the entire delay between the date the claim was due under 37 CFR 1.78(d)(3) and the date the claim was filed was unintentional. The Director may require additional where there is a question whether the delay was unintentional.

The petition does not comply with item (1).

The reference in the Domestic Priority Information section of the ADS filed March 12, 2024 is acceptable. As petitioner states in the petition, the Reference to Related Applications in column 1 of the patent recites the proper benefit information. However, petitioner must submit a draft Certificate of Correction form correcting (63) Related U.S. Application Data on the front page of the Letters Patent. The text of the correction, as well as the location of the error in the printed patent (Front Page of Letters Patent, section (63)) should be identified on form PTO/SB/44. The certificate of correction fee is $160.00.

If reconsideration of this decision is desired, petitioner is encouraged to submit a renewed petition under 37 CFR 1.78(e) (no additional petition fee due) accompanied by a draft certificate of correction, correcting the (63) Related U.S. Application Data on the front page of the Letters Patent, and the $160 certificate of correction fee.

Further correspondence with respect to this matter should be delivered through one of the following mediums:

By mail: Mail Stop PETITIONS
Commissioner for Patents
Post Office Box 1450
Alexandria, VA 22313-1450

By hand: Customer Service Window
Mail Stop Petitions
Randolph Building
40l Dulany Street
Alexandria, VA 22314

By fax: (571) 273-8300
ATTN: Office of Petitions

Registered users may file via Patent Center.

Any questions concerning this matter may be directed to the undersigned at (571) 272-3230.

/SHIRENE W BRANTLEY/
Attorney Advisor, OPET

PETITION TO EXPEDITE PURSUANT TO 37 C.F.R. §1.182

First Inventor: Roger Ignon	**Conf. No.:** 9223
Appl. No.: 18/094,884	**Filed:** January 9, 2023
Patent No.: 11,865,287	**Issue Date:** January 9, 2024
Title: DEVICES AND METHODS FOR TREATING SKIN	

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

Dear Commissioner:

Applicant hereby requests that the Office expedite consideration of the Petition for Acceptance of an Unintentionally Delayed Correction of a Benefit Claim under 37 C.F.R. §1.78(e) filed concurrently herewith.

The Commissioner is hereby authorized to charge the fee set forth in 37 C.F.R. §1.17(f), and any necessary additional fees, to Deposit Account No. 11-1410.

Respectfully submitted,

KNOBBE, MARTENS, OLSON & BEAR, LLP

Dated: March 12, 2024

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

59221783

REQUEST FOR UPDATED OR CORRECTED FILING RECEIPT

First Inventor: Roger Ignon	**Conf. No.:** 9223
Appl. No.: 18/094,884	**Filed:** January 9, 2023
Patent No.: 11865287	**Issue Date:** January 9, 2024
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 Commissioner:

Pursuant to the Petition for Acceptance of an Unintentionally Delayed Correction of a Benefit Claim under 37 CFR §1.78(e) filed herewith, Applicant hereby requests the Office issue an Updated Filing Receipt to correct the Domestic Priority Data of the above-captioned matter. This request includes:

(X) Corrected Application Data Sheet showing the correction to the priority data.

The Commissioner is authorized to charge any required fees or credit overpayment to Deposit Account No. 11-1410.

Respectfully submitted,

KNOBBE, MARTENS, OLSON & BEAR, LLP

Dated: March 12, 2024

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

59225495

PETITION FOR ACCEPTANCE OF AN UNINTENTIONALLY DELAYED CORRECTION OF A BENEFIT CLAIM UNDER 37 C.F.R. §1.78(e)

First Inventor: Roger Ignon	**Conf. No.:** 9223
Appl. No.: 18/094,884	**Filed:** January 9, 2023
Patent No.: 11,865,287	**Issue Date:** January 9, 2024
Title: DEVICES AND METHODS FOR TREATING SKIN	

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

Dear Commissioner:

Summary of Request

HydraFacial LLC ("Patent Owner"), as the owner of U.S. Patent No. 11,865,287 (the "Present Patent"), hereby respectfully requests that the United States Patent and Trademark Office ("USPTO") grant the present Petition for Acceptance of an Unintentionally Delayed Correction of a Benefit Claim under 37 C.F.R. §1.78(e). The requested correction is set forth on the Corrected Application Data Sheet filed herewith. Patent Owner requests the USPTO to issue a Certificate of Correction and a Corrected Filing Receipt in accordance with this Petition.

Petition under 37 C.F.R. §1.78(e)

Patent Owner hereby petitions for the acceptance of an unintentionally delayed correction to the benefit claim under 37 C.F.R. §1.78(e). In support of this request, Patent Owner provides the following:

(1) The reference required by 35 U.S.C. §120 and 37 C.F.R. §1.78(d)(2) to the prior-filed applications, through the Corrected ADS filed herewith, including all required markings;

(2) The petition fee as set forth in 37 C.F.R. §1.17(m); and

(3) The statement below that the entire delay between the date the benefit claim was due under 37 C.F.R. §1.78(d)(3) and the date the benefit claim was filed was unintentional.

STATEMENT OF UNINTENTIONAL DELAY:

The entire delay between the date the benefit claim was due under 37 CFR §1.78(d)(3) and the submission of the present Petition and accompanying Corrected Application Data Sheet was unintentional.

The original Application Data Sheet ("ADS") filed on January 9, 2023 included all proper predecessor applications in the priority chain; the original ADS, however, also included inadvertent reference to three additional non-provisional applications that were never intended to be and do not belong in the priority claim for the Present Patent: U.S. Patent Application Nos. 15/660777, 14/698713, and 14/698673.

It was an unintentional clerical error in the original ADS to list U.S. Patent Application No. 16/517268 as a continuation of U.S. Patent Application No. 15/660777, and to list U.S. Patent Application No. 15/660777 as a continuation of U.S. Patent Application No. 15/660750. Rather, as reflected in the Corrected ADS submitted herewith, U.S. Patent Application No. 16/517268 is a continuation of U.S. Patent Application No. 15/660750.

Likewise, it was an unintentional clerical error in the original ADS to list U.S. Patent Application No. 14/700789 as a continuation of U.S. Patent Application No. 14/698713, and to list U.S. Patent Application No. 14/698713 as a continuation of U.S. Patent Application No. 14/698673. Rather, as reflected in the Corrected ADS submitted herewith, U.S. Patent Application No. 14/700789 is a continuation of U.S. Patent Application No. 13/267554.

The unintentional inclusion of priority claims to U.S. Patent Application No. 15/660777, 14/698713 and 14/698673 in the original ADS was only recently discovered and was the motivation for the prompt filing of this Petition and accompanying documents. Patent Owner submits that none of the three applications inadvertently listed in the original ADS was included in the priority claim of any of the priority applications to which the Present Patent properly claims priority, including the immediate parent of the Present Patent, i.e., U.S. Patent Application No. 17/165820. Notably, the inadvertent and unintentional inclusion of the three non-provisional applications in the original ADS of the Present Patent does not impact the earliest asserted provisional and non-provisional priority dates of the Present Patent.

Further, Paragraph [0001] the Specification of the Present Patent, as originally filed, provides the accurate priority data and does not include the three non-provisional applications inadvertently listed in the original ADS that accompanied the submission of the Specification and other application documents filed on January 9, 2023. This priority listing, as shown in Column 1 of the Present Patent, is reproduced below for convenience.

REFERENCE TO RELATED APPLICATIONS

This is a continuation of U.S. patent application Ser. No. 17/165,820 filed Feb. 2, 2021, which is a continuation of U.S. patent application Ser. No. 16/517,268 filed Jul. 19, 2019 and issued as U.S. Pat. No. 11,446,477 on Sep. 20, 2022, which is a continuation of U.S. patent application Ser. No. 15/660,750 filed Jul. 26, 2017 and issued as U.S. Pat. No. 10,357,641 on Jul. 23, 2019, which is a continuation of U.S. patent application Ser. No. 14/700,789 filed Apr. 30, 2015 and issued as U.S. Pat. No. 9,814,868 on Nov. 14, 2017, which is a continuation of U.S. patent application Ser. No. 13/267,554 filed Oct. 6, 2011 and issued as U.S. Pat. No. 9,474,886 on Oct. 25, 2016, which is a continuation of U.S. patent application Ser. No. 11/392,348 filed Mar. 29, 2006 and issued as U.S. Pat. No. 8,048,089 on Nov. 1, 2011, which claims the benefit of U.S. Provisional Application No. 60/755,310 filed Dec. 30, 2005 and U.S. Provisional Application No. 60/764,668 filed Feb. 2, 2006. The entireties of all of the aforementioned applications are hereby incorporated by reference herein.

In view of the foregoing, Patent Owner submits that, based on the documents originally filed with the USPTO for the Present Patent, it is clear that the requested correction of the inadvertent and unintentional priority benefit claim as requested is appropriate.

Based on the investigation conducted by the undersigned counsel for Patent Owner, the issue regarding the benefit claim on the original ADS and the Filing Receipt went unnoticed during prosecution of, and was unintentionally claimed within, the Present Patent. The corresponding issue with benefit claim on the front page of the Present Patent went unnoticed upon issuance. Neither of these issues with the benefit claims were noticed by Patent Owner nor responsible counsel until shortly before the filing of this Petition.

For at least the reasons presented above, Patent Owner submits that correction of the benefit claim is proper and requests granting of the present Petition and the issuance of corresponding Corrected Filing Receipt and Certificate of Correction.

Patent Owner is submitting the petition fee as set forth in §1.17(m) with this request. 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 12, 2024

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

59221474

UNITED STATES
PATENT AND TRADEMARK OFFICE

P.O. Box 1450
Alexandria, VA 22313 - 1450
www.uspto.gov

ELECTRONIC PAYMENT RECEIPT

APPLICATION #	RECEIPT DATE / TIME	ATTORNEY DOCKET #
18/094,884	**03/12/2024 10:43:10 PM Z ET**	**EDGE.005C10**

Title of Invention

DEVICES AND METHODS FOR TREATING SKIN

Application Information

APPLICATION TYPE	Utility - Nonprovisional Application under 35 USC 111(a)	PATENT #	11865287
CONFIRMATION #	9223	FILED BY	Will Nguyen
PATENT CENTER #	64658423	AUTHORIZED BY	Theodore Papagiannis
CUSTOMER #	20995	FILING DATE	01/09/2023
CORRESPONDENCE ADDRESS	-	FIRST NAMED INVENTOR	Roger Ignon

Payment Information

PAYMENT METHOD	PAYMENT TRANSACTION ID	PAYMENT AUTHORIZED BY
CARD / 2549	**E20243BM43597731**	**Carolina Garcia**

PRE-AUTHORIZED ACCOUNT	PRE-AUTHORIZED CATEGORY
111410	**37 CFR 1.16 (National application filing, search, and examination fees); 37 CFR 1.17 (Patent application and reexamination processing fees)**

FEE CODE	DESCRIPTION	ITEM PRICE($)	QUANTITY	ITEM TOTAL($)
1462	PETITIONS REQUIRING THE PETITION FEE SET FORTH IN 37 CFR 1.17(F) (GROUP I)	420.00	1	420.00
1454	PETITION FOR THE DELAYED SUBMISSION OF A PRIORITY OR BENEFIT CLAIM, OR TO RESTORE THE RIGHT OF PRIORITY OR BENEFIT	2100.00	1	2100.00
			TOTAL AMOUNT:	**$2,520.00**

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 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

P.O. Box 1450
Alexandria, VA 22313 - 1450
www.uspto.gov

ELECTRONIC ACKNOWLEDGEMENT RECEIPT

APPLICATION #	RECEIPT DATE / TIME	ATTORNEY DOCKET #
18/094,884	**03/12/2024 10:43:10 PM Z ET**	**EDGE.005C10**

Title of Invention

DEVICES AND METHODS FOR TREATING SKIN

Application Information

APPLICATION TYPE	Utility - Nonprovisional Application under 35 USC 111(a)	PATENT #	11865287
CONFIRMATION #	9223	FILED BY	Will Nguyen
PATENT CENTER #	64658423	FILING DATE	01/09/2023
CUSTOMER #	20995	FIRST NAMED INVENTOR	Roger Ignon
CORRESPONDENCE ADDRESS	-	AUTHORIZED BY	Theodore Papagiannis

Documents

TOTAL DOCUMENTS: 4

DOCUMENT	PAGES	DESCRIPTION	SIZE (KB)
EDGE-005C10_PETITION.pdf	4	Petition for review by the Office of Petitions	56 KB
EDGE-005C10_EXPEDITE.pdf	1	Petition for review by the Office of Petitions	17 KB
EDGE-005C10_REQUESTCFR.pdf	1	Request for Corrected Filing Receipt	18 KB
EDGE005C10_CorrectedADS_Updated.pdf	2	Application Data Sheet	29 KB

Warning: This is not a USPTO supplied ADS fillable form. Data in the form cannot be automatically loaded to other USPTO systems.

Digest

DOCUMENT	MESSAGE DIGEST(SHA-512)
EDGE-005C10_PETITION.pdf	D4B72FEF278F52D2B148121EB6F7B25B705FC5BD1DBCB7E5 22EAEAA7919F0075C6EBEBDE0610C3A31D7011A5F8C3DB1C FA6C3E1CC080B6146F1F0CA96A0F1AC3
EDGE-005C10_EXPEDITE.pdf	416B64A61814504DEF36F8B3093F79007C062D0844EC2C7CB 4A7073BA904F1CA2D89C9639A82C41607F22F60D807E83151 F65A9245D29E8E38E7CC72B91F43C7
EDGE-005C10_REQUESTCFR.pdf	02CF1F8C466E22E5AC89282DF6017BE77F8629FF2D2735BB5 359993A03B86F3DD1DEDDE4BDE3ED79E2C01533E426BC0D D766AECD0E2EE3DF42FAA472861F7459
EDGE005C10_CorrectedADS_Updated.pdf	B496046E3C6D624FC7D0E735016F9E49F748C1304D60909804 A740B478B83D78DBE7BA2CF23B28CB52F601C6BE9230E247 B2A2535596F0810DCEFD6A871C57C7

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 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.

APPLICATION DATA SHEET

Application Information

Application Number: 18/094884

Filing Date: January 9, 2023

Title: DEVICES AND METHODS FOR TREATING SKIN

Attorney Docket Number: EDGE.005C10

Domestic Priority Information

Application:	**Continuity Type:**	**Prior Appl. No.:**	**Prior Appl. Filing Date:**	**Prior Appl. Patent No.:**	**Prior Appl. Issue Date:**
	Continuation	17/165820	2021-02-02		
17/165820	Continuation	16/517268	2019-07-19		
~~16/517268~~	~~Continuation~~	~~15/660777~~	~~2017-07-26~~	~~10357642~~	~~2019-07-23~~
~~15/660777~~ 16/517268	~~Continuation~~ Continuation	~~15/660750~~ 15/660750	~~2017-07-26~~ 2017-07-26	~~10357641~~ 10357641	~~2019-07-23~~ 2019-07-23
15/660750	Continuation	14/700789	2015-04-30	9814868	2017-11-14
~~14/700789~~	~~Continuation~~	~~14/698713~~	~~2015-04-28~~	~~9662482~~	~~2017-05-30~~
~~14/698713~~	~~Continuation~~	~~14/698673~~	~~2015-04-28~~	~~9550052~~	~~2017-01-24~~
~~14/698673~~ 14/700789	~~Continuation~~ Continuation	~~13/267554~~ 13/267554	~~2011-10-06~~ 2011-10-06	~~9474886~~ 9474886	~~2016-10-25~~ 2016-10-25
13/267554	Continuation	11/392348	2006-03-29	8048089	2011-11-01
11/392348	Claims benefit of provisional	60/764668	2006-02-02		
11/392348	Claims benefit of provisional	60/755310	2005-12-30		

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

Dated: March 12, 2024

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

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.
18/094,884	01/09/2023	Roger Ignon	EDGE.005C10	9223

20995 7590 01/09/2024

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
01/09/2024	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):

Atty.AdminCoordinator@knobbe.com
efiling@knobbe.com

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.	ISSUE DATE	PATENT NO.
18/094,884	09-Jan-2024	11865287

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

EGRANT NOTIFICATION

Your electronic patent grant (eGrant) is now available, which can be accessed via Patent Center at https://patentcenter.uspto.gov

The electronic patent grant is the official patent grant under 35 U.S.C. 153. For more information, please visit https://www.uspto.gov/electronicgrants

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.	ISSUE DATE	PATENT NO.	ATTORNEY DOCKET NO.	CONFIRMATION NO.
18/094,884	01/09/2024	11865287	EDGE.005C10	9223

20995 7590 12/20/2023

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. The patent will issue electronically. The electronically issued patent is the official patent grant pursuant to 35 U.S.C. § 153. The patent may be accessed on or after the issue date through Patent Center at https://patentcenter.uspto.gov/. The patent will be available in both the public and the private sides of Patent Center. Further assistance in electronically accessing the patent, or about Patent Center, is available by calling the Patent Electronic Business Center at 1-888-217-9197.

The USPTO is implementing electronic patent issuance with a transition period, during which period the USPTO will mail a ceremonial paper copy of the electronic patent grant to the correspondence address of record. Additional copies of the patent (i.e., certified and presentation copies) may be ordered for a fee from the USPTO's Certified Copy Center at https://certifiedcopycenter.uspto.gov/index.html. The Certified Copy Center may be reached at (800)972-6382.

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 Center (https://patentcenter.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 PATENT CENTER site https://patentcenter.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 PATENT CENTER site https://patentcenter.uspto.gov for additional applicants):

HydraFacial LLC, Long Beach, CA;

The United States represents the largest, most dynamic marketplace in the world and is an unparalleled location for business investment, innovation, and commercialization of new technologies. The USA offers tremendous resources and advantages for those who invest and manufacture goods here. Through SelectUSA, our nation works to encourage and facilitate business investment. To learn more about why the USA is the best country in the world to develop technology, manufacture products, and grow your business, visit SelectUSA.gov.

UNITED STATES PATENT AND TRADEMARK OFFICE

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www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
18/094,884	01/09/2023	Roger Ignon	EDGE.005C10	9223

20995 7590 11/22/2023

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

EXAMINER	
KNAUSS, CHRISTIAN D	

ART UNIT	PAPER NUMBER
3771	

NOTIFICATION DATE	DELIVERY MODE
11/22/2023	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):

Atty.AdminCoordinator@knobbe.com
efiling@knobbe.com

PTOL-90A (Rev. 04/07)

Response to Rule 312 Communication	Application No. 18/094,884	Applicant(s)
	Examiner	Art Unit

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

1. ☒ The amendment filed on *17 November 2023* under 37 CFR 1.312 has been considered, and has been:

a) ☒ entered.

b) ☐ entered as directed to matters of form not affecting the scope of the invention.

c) ☐ disapproved because the amendment was filed after the payment of the issue fee.
Any amendment filed after the date the issue fee is paid must be accompanied by a petition under 37 CFR 1.313(c)(1) and the required fee to withdraw the application from issue.

d) ☐ disapproved. See explanation below.

e) ☐ entered in part. See explanation below.

Kimberly Payne

Publishing Division

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

First Inventor: Roger Ignon	**Conf. No.:** 9223
Appl. No.: 18/094,884	**Filed:** January 9, 2023
Examiner: Christian D. Knauss	**Art Unit:** 3771
Title: DEVICES AND METHODS FOR TREATING SKIN	

AMENDMENT UNDER 37 C.F.R. §1.121

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

Dear Commissioner:

In response to the Notice to File Corrected Application Papers dated November 14, 2023 for the above-referenced application (the "Notice"), Applicant requests entry and consideration of the amendments to the Specification presented herein under 37 C.F.R. §1.121.

Amendments to the Specification begin on page 2 of this paper.

Remarks begin on page 4 of this paper.

AMENDMENTS TO THE SPECIFICATION

Please amend paragraphs [0052], [0118], [0120] and [0124] of the Specification as provided below. These amendments are presented in response to the Notice to correct certain typographical errors and to expedite the issuance of the subject application. Applicant submits that no new subject matter is introduced as a result of the clarifying amendments to the Specification presented herein.

[0052] Figure 13B is a cross-sectional view of the bottle of Figure 13A ~~12A~~ coupled with the insertion tip assembly.

[0118] As shown in Figures 12 and 13A~~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.

[0120] In some embodiments, including the illustrated embodiment of Figures 12 and 13B~~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.

[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 13B~~12B~~. After the insertion tip assembly 59 and bottle 26 are assembled, as shown in Figure 13B~~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.

REMARKS

Applicant respectfully requests entry of the foregoing amendments to the Specification under 37 C.F.R. §1.121 in response to the Notice. The Notice identifies certain "inconstancies" regarding the Specification. Namely, the Notice recites that "*Page 21 and 22 of the specification refers to FIG. 12A and 12B, but no drawing with that designation is described in the brief description of the drawings and no drawing with that designation is present in the application.*" Further, for completeness, Applicant identified additional inadvertent use of the terms FIG. 12A and 12B in the Specification. See Paragraph [0052] on Page 7 and Paragraph [0124] on Page 23 of the as-filed Specification for this application. As reflected in the foregoing amendments, these portions of the Specification are being corrected herein together with Paragraphs [0118] and [0120] on Pages 21 and 22.

As noted above, the foregoing amendments are presented in response to the Notice to correct certain typographical errors in the Specification and to expedite the issuance of the subject application. Applicant submits that no new subject matter is introduced as a result of the clarifying amendments presented herein.

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. 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.

CONCLUSION

Applicant believes no fees are due in correction with this submission. However, if necessary, please charge any fees, including any fees for additional extension of time, or credit overpayment to Deposit Account No. 11-1410. Should the Examiner have any questions, the Examiner is invited to contact the undersigned at the telephone number below.

Respectfully submitted,

KNOBBE, MARTENS, OLSON & BEAR, LLP

Dated: November 17, 2023

By: /Theodore G. Papagiannis/
Theodore G. Papagiannis
Registration No. 61,546
Attorney of Record
(949) 721-6395

58597445

UNITED STATES
PATENT AND TRADEMARK OFFICE

P.O. Box 1450
Alexandria, VA 22313 - 1450
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ELECTRONIC ACKNOWLEDGEMENT RECEIPT

APPLICATION #	RECEIPT DATE / TIME	ATTORNEY DOCKET #
18/094,884	**11/17/2023 06:58:21 PM Z ET**	**EDGE.005C10**

Title of Invention

DEVICES AND METHODS FOR TREATING SKIN

Application Information

APPLICATION TYPE	Utility - Nonprovisional Application under 35 USC 111(a)	PATENT #	-
CONFIRMATION #	9223	FILED BY	MIREYA OVANDO
PATENT CENTER #	63305450	FILING DATE	01/09/2023
CUSTOMER #	20995	FIRST NAMED INVENTOR	Roger Ignon
CORRESPONDENCE ADDRESS	-	AUTHORIZED BY	Theodore Papagiannis

Documents

TOTAL DOCUMENTS: 4

DOCUMENT		PAGES	DESCRIPTION	SIZE (KB)
AMENDMENT_1_21-005C10.pdf		5	-	37 KB
AMENDMENT_1_21-005C10-A.NA.pdf	(1-1)	1	Amendment after Notice of Allowance (Rule 312)	18 KB
AMENDMENT_1_21-005C10-SPEC.pdf	(2-3)	2	Specification	22 KB
AMENDMENT_1_21-005C10-REM.pdf	(4-5)	2	Applicant Arguments/Remarks Made in an Amendment	26 KB
UPDATED-RESPONSENOTICE.pdf		1	Post Allowance Communication - Incoming	18 KB

Digest

DOCUMENT	MESSAGE DIGEST(SHA-512)
AMENDMENT_1_21-005C10.pdf	EFF84457BBB1EF411D6045834D0EB23F4ABDD9FD041491F1CADAD1281E2E119BDB13D9FEA932DEEAA28BA3F27E24E2F7E6BA863D4416BD84C523BB1C556A3E41
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AMENDMENT_1_21-005C10-SPEC.pdf	B900E19B832CF4B3B90FE5D5809DDBE8375A0BC840D05CB46B94B7D86F9D84D6A1D48E7F1C40B5EA60F25D4FFE3DC41A60EB722D94F2C7E51128D4F93ED89DA0
AMENDMENT_1_21-005C10-REM.pdf	96603317E570A72DA07EDEFB42CF4265BDD1E0790BE2DBEF2FBD7C0305B6DFB44178A6904B60E7B65DDEC72C4DE20439BDF2AB4D96A9D11F74DE2D87F0B25055
UPDATED-RESPONSENOTICE.pdf	210311D93D2CE5E0BE1046AF8D3400A55B1061E644D4C5B72D2BFB33CEF2333255DF2E5F415E72E4A99A0DED79E2B381563A7364B5709032B9EF41BFE7A03F2E

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 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.

RESPONSE TO NOTICE TO FILE CORRECTED APPLICATION PAPERS

First Inventor: Roger Ignon	**Conf. No.:** 9223
Appl. No.: 18/094,884	**Filed:** January 9, 2023
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

Dear Commissioner:

In response to the Notice to File Corrected Application Papers mailed November 14, 2023 for the above-referenced application (the "Notice"), Applicant submits the following:

(X) A copy of the Notice; and

(X) An Amendment under 37 C.F.R. §1.121 to address the matters identified in the Notice and expedite the issuance of the above-referenced application.

Respectfully submitted,

KNOBBE, MARTENS, OLSON & BEAR, LLP

Dated: November 17, 2023

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

58458634

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
18/094,884	01/09/2023	Roger Ignon	EDGE.005C10	9223

20995 7590 11/14/2023
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
11/14/2023	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
lynette.williams@knobbe.com
roberta.bustillos@knobbe.com

UNITED STATES PATENT AND TRADEMARK OFFICE

Commissioner for Patents
United States Patent and Trademark Office
P.O. Box 1450
Alexandria, VA 22313-1450
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Application No. : 18094884
Applicant : Ignon
Filing Date : 01/09/2023
Date Mailed : 11/14/2023

NOTICE TO FILE CORRECTED APPLICATION PAPERS

Notice of Allowance Mailed

This application has been accorded an Allowance Date and is being prepared for issuance. The application, however, is incomplete for the reasons below.

Applicant is given two (2) months from the mail date of this Notice within which to respond. This time period for reply is extendable under 37 CFR 1.136(a) for only TWO additional MONTHS.

The informalities requiring correction are indicated in the attachment(s). If the informality pertains to the abstract, specification (including claims) or drawings, the informality must be corrected with an amendment in compliance with 37 CFR 1.121 (or, if the application is a reissue application, 37 CFR 1.173). Such an amendment may be filed after payment of the issue fee if limited to correction of informalities noted herein. See Waiver of 37 CFR 1.312 for Documents Required by the Office of Patent Publication, 1280 Off. Gaz. Patent Office 918 (March 23, 2004). In addition, if the informality is not corrected until after payment of the issue fee, for purposes of 35 U.S.C. 154(b)(1)(iv), "all outstanding requirements" will be considered to have been satisfied when the informality has been corrected. A failure to respond within the above-identified time period will result in the application being ABANDONED.

See attachment(s).

A copy of this notice MUST be returned with the reply. Please address response to "Mail Stop Issue Fee, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450".

/Daxa Patel/
Publication Branch
Office of Data Management
(571) 272-4200

Application No. 18094884

IDENTIFICATION OF SPECIFICATION/DRAWING INCONSISTENCIES

☐ On Page of the specification there is a brief description of FIG. , but the drawings filed do not include a drawing with that designation. Applicant must respond either by supplying the omitted drawing or by amending the specification to remove all references to that drawing.

☐ The drawings filed include FIG. , but the specification's brief description of the drawings does not describe a drawing with that designation. Applicant must respond either by amending the specification to add a brief description of that drawing or by correcting the drawings to remove the drawing in question.

☐ In the utility application, drawings are present in the application and are referred to in the detailed description of the invention, but the specification does not contain a brief description of the several views as required by 37 CFR 1.74 and 37 CFR 1.77(b)(9).

☐ The design application does not contain a description of the figure or figures of the drawing as required by 37 CFR 1.153(a) and 37 CFR 1.154(b)(4).

☐ In the plant application, the specification does not contain a brief description of the drawing as required by 37 CFR 1.163(c)(8).

☒ Page 21 and 22 of the specification refers to FIG. 12A and 12B, but no drawing with that designation is described in the brief description of the drawings and no drawing with that designation is present in the application. Applicant must respond either by amending the specification to remove all references to that drawing, or by supplying that drawing and amending the specification to add a brief description of it.

☐ In the reissue application, FIG. , is labeled as “New” but is not described in the reissue specification’s brief description of the drawings. Applicant must respond by amending the reissue specification’s brief description of the drawings to add a brief description of the new drawing.

☐ OTHER:

☐ COMMENTS:

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ELECTRONIC ACKNOWLEDGEMENT RECEIPT

APPLICATION #	RECEIPT DATE / TIME	ATTORNEY DOCKET #
18/094,884	**10/31/2023 05:19:29 PM ET**	**EDGE.005C10**

Title of Invention

DEVICES AND METHODS FOR TREATING SKIN

Application Information

APPLICATION TYPE	Utility - Nonprovisional Application under 35 USC 111(a)	PATENT #	-
CONFIRMATION #	9223	FILED BY	Mireya Ovando
PATENT CENTER #	63112062	FILING DATE	01/09/2023
CUSTOMER #	20995	FIRST NAMED INVENTOR	Roger Ignon
CORRESPONDENCE ADDRESS	-	AUTHORIZED BY	Theodore Papagiannis

Documents

TOTAL DOCUMENTS: 4

DOCUMENT		PAGES	DESCRIPTION	SIZE (KB)
IFT-005C10.pdf		1	Issue Fee Payment (PTO-85B)	127 KB
Comments-005C10.pdf		4	-	27 KB
Comments-005C10-N427.pdf	(1-1)	1	Post Allowance Communication - Incoming	18 KB
Comments-005C10-INTRVIEW.APP.pdf	(2-2)	1	Applicant summary of interview with examiner	17 KB
Comments-005C10-N427.pdf	(3-4)	2	Post Allowance Communication - Incoming	19 KB

Digest

DOCUMENT	MESSAGE DIGEST(SHA-512)
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Comments-005C10.pdf	AAE5FD441028BC891316FB10CBC2EC9C215C96721407BE7B1 9FE910ABB7400782154BA318986CA24714248DCF5DBD5FC94 D991EA24F03134B1BF7AB45567DE99
Comments-005C10-N427.pdf	A6D5A412A73C0D1712739E4F5628F6C8E88A78B3279AA075F5 B6E0F70322E241DEFD5C843ADAAB1C8385AF7166FC35F2725 02FE41EDC84D071D85CE18D3A2546
Comments-005C10-INTRVIEW.APP.pdf	0CEF8D710711C1098DA82CCFA70CBCDD52DC8979A2945FD7 BD15AC780C8B5AA9C014C0060456AA03999BE3FD8F44EADD 7E614062CC91483C969AC633A055E5CD
Comments-005C10-N427.pdf	895D0DB2BE5615BC7EF6DE18D8ECD992BCCD829B8F8F45B9 67AA75321E11AEF9D3C84558093B19F54B5085DBA29BF4810B CC9B43D6CBFC524813A584588705B3

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 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 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. **Because electronic patent issuance may occur shortly after issue fee payment, any desired continuing application should preferably be filed prior to payment of this issue fee in order not to jeopardize copendency.**

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

20995 7590 10/26/2023
KNOBBE MARTENS OLSON & BEAR LLP
2040 MAIN STREET
FOURTEENTH FLOOR
IRVINE, CA 92614

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
18/094,884	01/09/2023	Roger Ignon	EDGE.005C10	9223

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	UNDISCOUNTED	$1200	$0.00	$0.00	$1200	01/26/2024

EXAMINER	ART UNIT	CLASS-SUBCLASS
KNAUSS, CHRISTIAN D	3771	604-022000

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, California

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)

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

☒ Electronic Payment via Patent Center or 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. 11-1410

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

❑ Applicant certifying micro entity status. See 37 CFR 1.29

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.

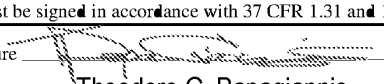
❑ Applicant asserting small entity status. See 37 CFR 1.27

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.

❑ Applicant changing to regular undiscounted fee 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 October 30, 2023

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

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

First Inventor: Roger Ignon	**Conf. No.:** 9223
Appl. No.: 18/094,884	**Filed:** January 9, 2023
Examiner: Christian D Knauss	**Art Unit:** 3771
Title: DEVICES AND METHODS FOR TREATING SKIN	

SUMMARY OF INTERVIEW &

COMMENTS ON STATEMENT OF REASONS FOR ALLOWANCE

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

Dear Commissioner:

In response to the Interview conducted on October 18, 2023 and the Examiner's Statement of Reasons for Allowance (the "Examiner's Statement") included in the Notice of Allowance mailed on October 26, 2023 for the above-captioned application, Applicant respectfully submits the following. This submission is accompanied by the related Issue Fee transmittal (a completed USPTO Form PTOL-85) and the appropriate Issue Fee payment.

Summary of Interview begins on page 2 of this paper.

Comments on Statement of Reasons for Allowance begin on page 3 of this paper.

SUMMARY OF INTERVIEW

Applicant thanks Examiner Knauss for the time and the courtesy extended during the Interview of October 18, 2023 (the "Interview").

Attendees, Date and Type of Interview

The Interview was conducted telephonically on October 18, 2023 and was attended by Examiner Christian D. Knauss and attorney for Applicant, Theodore Papagiannis.

Exhibits and/or Demonstrations

None.

Identification of Claims Discussed

Claims 52 and 53.

Identification of References Discussed

None.

Proposed Amendments, Principal Arguments, Other Matters and Results of Interview

Examiner Knauss contacted attorney for Applicant seeking authorization to cancel Claims 52 and 53 via Examiner's Amendment. In order to expedite allowance of the present application and without acquiescing to any potential issues related to those dependent claims, Applicant agreed to the amendments via the proposed Examiner's Amendment. In light of the Applicant's agreement related to the proposed Examiner's Amendment, Examiner Knauss indicated a Notice of Allowance would be processed.

COMMENTS ON STATEMENT OF REASONS FOR ALLOWANCE

In response to 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.

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.

CONCLUSION

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: October 30, 2023

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

58485835

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ELECTRONIC PAYMENT RECEIPT

APPLICATION #	RECEIPT DATE / TIME	ATTORNEY DOCKET #
18/094,884	**10/31/2023 05:19:29 PM ET**	**EDGE.005C10**

Title of Invention

DEVICES AND METHODS FOR TREATING SKIN

Application Information

APPLICATION TYPE	Utility - Nonprovisional Application under 35 USC 111(a)	PATENT #	-
CONFIRMATION #	9223	FILED BY	Mireya Ovando
PATENT CENTER #	63112062	AUTHORIZED BY	Theodore Papagiannis
CUSTOMER #	20995	FILING DATE	01/09/2023
CORRESPONDENCE ADDRESS	-	FIRST NAMED INVENTOR	Roger Ignon

Payment Information

PAYMENT METHOD	PAYMENT TRANSACTION ID	PAYMENT AUTHORIZED BY
CARD / 2549	E20230UH20425314	Chris Esparza

PRE-AUTHORIZED ACCOUNT	PRE-AUTHORIZED CATEGORY
111410	37 CFR 1.16 (National application filing, search, and examination fees); 37 CFR 1.17 (Patent application and reexamination processing fees)

FEE CODE	DESCRIPTION	ITEM PRICE($)	QUANTITY	ITEM TOTAL($)
1501	UTILITY ISSUE FEE	1200.00	1	1200.00
			TOTAL AMOUNT:	**$1,200.00**

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 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
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

NOTICE OF ALLOWANCE AND FEE(S) DUE

20995 7590 10/26/2023

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

EXAMINER	
KNAUSS, CHRISTIAN D	
ART UNIT	PAPER NUMBER
3771	

DATE MAILED: 10/26/2023

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
18/094,884	01/09/2023	Roger Ignon	EDGE.005C10	9223

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	UNDISCOUNTED	$1200	$0.00	$0.00	$1200	01/26/2024

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 40% the amount of undiscounted fees, and micro entity fees are 20% the amount of undiscounted 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

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 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. **Because electronic patent issuance may occur shortly after issue fee payment, any desired continuing application should preferably be filed prior to payment of this issue fee in order not to jeopardize copendency.**

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

20995 7590 10/26/2023
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.
18/094,884	01/09/2023	Roger Ignon	EDGE.005C10	9223

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	UNDISCOUNTED	$1200	$0.00	$0.00	$1200	01/26/2024

EXAMINER	ART UNIT	CLASS-SUBCLASS
KNAUSS, CHRISTIAN D	3771	604-022000

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)

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

❑ Electronic Payment via Patent Center or 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
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.

❑ Applicant asserting small entity status. See 37 CFR 1.27
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.

❑ Applicant changing to regular undiscounted fee 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
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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
18/094,884	01/09/2023	Roger Ignon	EDGE.005C10	9223

20995 7590 10/26/2023

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IRVINE, CA 92614

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

DATE MAILED: 10/26/2023

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.** 18/094,884	**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 10/11/23.
   ☐ 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 2,6-27 and 30-51 . 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. 20231020.
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.

Response to Amendment

2. Claims 2, 6-27, and 30-53 are pending in the application. Claims 1, 3-5, 28, and 29 have been canceled. Claims 32-53 are new. Claims 2, 12, 13, 15, 26, 27, and 31 have been amended.

Terminal Disclaimer

3. The terminal disclaimer filed on 10/18/23 disclaiming the terminal portion of any patent granted on this application which would extend beyond the expiration date of US 9,550,052 B2 and US 11,446,477 B2 has been reviewed and is accepted. The terminal disclaimer has been recorded.

EXAMINER'S AMENDMENT

4. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in an interview with Theodore Papagiannis on 10/18/23.

The application has been amended as follows:

IN THE CLAIMS

Canceled claims 52 and 53

Allowable Subject Matter

5. Claims 2, 6-27, and 30-51 are allowed.

6. The following is an examiner's statement of reasons for allowance: Claim 2 has been amended to incorporate the allowable subject matter from claim 3, which has been canceled. Claim 3 was indicated allowable in the previous Office Action. Claims 6-14 are all dependent on claim 2, thus are also allowable over the prior art of record.

Claims 15-25 were indicated allowable in the previous Office Action pending resolution of the double patenting rejections. The Double Patenting rejections have been overcome by the Terminal Disclaimer (see above).

Claim 26 has been amended to incorporate the allowable subject matter from claim 29 and intervening claim 28, which have both been canceled. Claim 29 was indicated allowable in the previous Office Action. Claims 27, 30, and 31 are all dependent on claim 26, thus are also allowable over the prior art of record.

Claim 32 is newly presented. Claim 32 contains the limitations of allowable claim 7, intervening claim 6, and independent claim 2. Claim 7 was indicated allowable in the

previous Office Action. Claims 33-42 are dependent on claim 32, thus are also allowable over the prior art of record.

Claim 43 is newly presented. Claim 43 contains the limitations of allowable claim 14, intervening claim 13, and independent claim 2. Claim 14 was indicated allowable in the previous Office Action. Claims 44-51 are dependent on claim 43, thus are also allowable over the prior art of record.

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

7. 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

Examiner-Initiated Interview Summary	**Application No.** 18/094,884	**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: 18 October 2023

Issues Discussed:

Proposed Amendment(s)

The Examiner contacted the Applicant's representative regarding a proposed Examiner's Amendment to cancel claims 52 and 53 (for failing to further limit claim 43, from which they depend). The Applicant's representative gave the Examiner authorization to enter the Examiner's Amendment.

/CHRISTIAN D KNAUSS/ 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.

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	18/094,884	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
	/		/					

/C.D.K./ Examiner, Art Unit 3771 (Assistant Examiner)	20 October 2023 (Date)	Total Claims Allowed: 45	
/DARWIN P EREZO/ Supervisory Patent Examiner, Art Unit 3771 (Primary Examiner)	23 October 2023 (Date)	O.G. Print Claim(s) 1	O.G. Print Figure 16

U.S. Patent and Trademark Office — Part of Paper No.: 20231020

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	18/094,884	Ignon et al.
	Examiner	**Art Unit**
	CHRISTIAN D KNAUSS	3771

INTERNATIONAL CLASSIFICATION					
CLAIMED					
A61M35/00	/	35	/	00	
A61B17/54	/	17	/	54	

NON-CLAIMED				
	/		/	

US ORIGINAL CLASSIFICATION	
CLASS	**SUBCLASS**

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

/C.D.K./ Examiner, Art Unit 3771	20 October 2023	**Total Claims Allowed:**	
(Assistant Examiner)	(Date)	45	
/DARWIN P EREZO/ Supervisory Patent Examiner, Art Unit 3771	23 October 2023	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	16

U.S. Patent and Trademark Office — Part of Paper No.: 20231020

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	18/094,884	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
	1	6	10	15	19		28	31	37	40	46				
1	2	7	11	16	20		29	32	38	41	47				
	3	8	12	17	21	24	30	33	39	42	48				
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/C.D.K./ Examiner, Art Unit 3771 (Assistant Examiner)	20 October 2023 (Date)	**Total Claims Allowed:** 45	
/DARWIN P EREZO/ Supervisory Patent Examiner, Art Unit 3771 (Primary Examiner)	23 October 2023 (Date)	O.G. Print Claim(s) 1	O.G. Print Figure 16

Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	18/094,884	Ignon et al.
	Examiner	Art Unit
	CHRISTIAN D KNAUSS	3771

CPC - Searched*		
Symbol	**Date**	**Examiner**
A61B17/3205, 54, 545	10/04/2023	CDK
A61B2017/00199, 00761, 320004	10/04/2023	CDK
A61M1/774	10/04/2023	CDK
A61B2217/005, 007	10/04/2023	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
	18/094,884	Ignon et al.
	Examiner	Art Unit
	CHRISTIAN D KNAUSS	3771

Search Notes		
Search Notes	**Date**	**Examiner**
Performed inventor and assignee searches	10/04/2023	CDK
Reviewed parent applications	10/04/2023	CDK
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Performed backward/forward searches	10/04/2023	CDK
Performed CPC subgroup/text searches and combinations	10/04/2023	CDK
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text search	USPAT; US-PGPUB	10/20/2023	CDK

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Bibliographic Data

Application No: 18/094,884

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.
01/09/2023	604	3771	
RULE			

APPLICANTS

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CONTINUING DATA OK /CK/

This application is a CON of 17165820 02/02/2021 PAT 11547840

17165820 is a CON of 16517268 07/19/2019 PAT 11446477

15660777 is a CON of 15660750 07/26/2017 PAT 10357641

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FOREIGN APPLICATIONS none /CK/

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$1,820

PE2E SEARCH - Search History (Prior Art)

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L26	84	("2608032" | "2921585" | "3085573" | "3476122" | "3574239" | "3715838" | "4182329" | "4216233" | "4560373" | "4646480" | "4676749" | "4706676" | "4757814" | "4900316" | "5037432" | "5100412" | "5207234" | "5810842" | "5971999" | "6024733" | "6039745").PN. OR ("6162232").URPN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2015/08/03 08:28 AM
L27	27	("5759185" | "6139554" | "6162232" | "6183483" | "6241739").PN. OR ("6641591").URPN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2015/08/03 08:33 AM
L28	288	("4166457" | "4239046" | "4250878" | "4325367" | "4329999" | "4383529" | "4406658" | "4411648" | "4416274" | "4419092"	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2015/08/03 08:41 AM

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L29	2179	A61B2217/005.cpc.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2015/08/03 10:35 AM
L30	304	L29 and spiral	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2015/08/03 11:21 AM
L31	1	"6277128".pn.	(US-PGPUB; USPAT)	OR	OFF	OFF	2015/08/03 11:44 AM
L32	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	2015/08/03 11:45 AM
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L36	67	("2701559" | "2712823" | "2867214" | "2881763" | "2921585" | "3964212" | "4378804" | "4572187" | "4957747" | "5012797" | "5037431" | "5037432" | "5100412" | "5207234" | "5354307" | "5800446" | "5810842" | "5954730" | "5971999" | "6019749" | "6039745" | "6042552" | "6080165" | "6162232" | "6299620" | "6391034" | "6423078" | "6432113").PN. OR ("6629983").URPN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2016/05/18 05:36 AM
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		0217357"|"20120041338"|"20150230824"|"20150230825"|"20150231379"|"20150265822"|"20150272623"|"20150290442"|"20160038183"|"3865352"|"4170821"|"5697920"|"5735833"|"6129701"|"6162218"|"6193589"|"6235039"|"6432114"|"6589218"|"6695853"|"6743211"|"7232444"|"9056193").PN.					
L39	1	14/700,789	(US-PGPUB; USPAT)	OR	OFF	OFF	2016/06/15 07:04 AM
L40	531	A61M2037/0007.cpc.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2016/06/15 07:07 AM
L41	8	("4836192" "6401289" "9468464" "9474886" "9486615" "9498610" "20040015139" "20100305495").pn.	(US-PGPUB; USPAT)	OR	OFF	OFF	2017/02/01 03:47 AM
L42	1039	microdermabras$6	(US-PGPUB; USPAT)	OR	OFF	OFF	2017/12/07 01:33 PM
L43	545	microdermabras$6 and (suction$4 vacuum$4)	(US-PGPUB; USPAT)	OR	OFF	OFF	2017/12/07 01:52 PM
L44	214	microdermabras$6 and (spiral)	(US-PGPUB; USPAT)	OR	OFF	OFF	2017/12/08 05:44 AM
L45	182	(US-0002960-$ | US-0005078-$ | US-0010222-$ | US-0010269-$ | US-0012415-$ | US-0015139-$ | US-0016601-$ | US-0018252-$ | US-0018317-$ | US-0022435-$ | US-0023351-$ | US-0027328-$ | US-0032047-$ | US-0036002-$ | US-0037034-$ | US-0037118-$ | US-0038183-$ | US-0038448-$ | US-0041338-$ | US-0041891-$ | US-0043382-$ | US-0045427-$ | US-0048557-$ | US-0049177-$ | US-0049210-$ | US-0049511-$ | US-0053390-$ | US-0054490-$ | US-	(US-PGPUB; USPAT)	OR	OFF	OFF	2017/12/08 06:08 AM

		0058952-$ | US- 0059940-$ | US- 0060834-$ | US- 0062815-$ | US- 0065515-$ | US- 0065801-$ | US- 0066162-$ | US- 0066336-$ | US- 0082415-$ | US- 0084509-$ | US- 0087972-$ | US- 0088371-$ | US- 0091179-$ | US- 0092895-$ | US- 0092959-$ | US- 0093040-$ | US- 0093089-$ | US- 0096577-$ | US- 0097139-$ | US- 0097967-$ | US- 0099091-$ | US- 0099093-$ | US- 0102978-$ | US- 0103563-$ | US- 0107527-$ | US- 0116674-$ | US- 0119781-$ | US- 0122447-$ | US- 0123808-$ | US- 0124985-$ | US- 0127914-$ | US- 0128663-$ | US- 0132914-$ | US- 0133110-$ | US- 0133176-$ | US- 0136374-$ | US- 0138026-$ | US- 0139974-$ | US- 0143274-$ | US- 0144280-$ | US- 0148958-$ | US- 0151826-$ | US- 0151908-$ | US- 0154161-$ | US- 0154502-$ | US- 0156124-$ | US- 0158547-$ | US- 0161178-$ | US- 0162565-$ | US- 0166172-$ | US- 0167032-$ | US- 0177171-$ | US- 0178121-$ | US- 0187462-$ | US- 0188261-$ | US- 0189964-$ | US- 0191562-$ | US- 0192442-$ | US-						

		0193493-$ | US- 0198031-$ | US- 0200099-$ | US- 0200172-$ | US- 0200173-$ | US- 0200861-$ | US- 0203111-$ | US- 0208146-$ | US- 0208159-$ | US- 0208353-$ | US- 0209611-$ | US- 0212029-$ | US- 0212127-$ | US- 0212415-$ | US- 0214987-$ | US- 0215068-$ | US- 0217357-$ | US- 0219179-$ | US- 0221548-$ | US- 0222023-$ | US- 0230824-$ | US- 0230825-$ | US- 0231379-$ | US- 0236291-$ | US- 0239173-$ | US- 0243039-$ | US- 0243149-$ | US- 0253125-$ | US- 0254587-$ | US- 0256671-$ | US- 0264893-$ | US- 0265822-$ | US- 0267285-$ | US- 0272623-$ | US- 0280320-$ | US- 0283176-$ | US- 0287864-$ | US- 0290442-$ | US- 0300529-$ | US- 0300552-$ | US- 0305495-$ | US- 0343481-$ | US- 0343574-$ | US- 1234567-$ | US- 2608032-$ | US- 2631583-$ | US- 2701559-$ | US- 2712823-$ | US- 2867214-$ | US- 2881763-$ | US- 2921585-$ | US- 20010023351-$ | US- 20010037118-$ | US- 20010049511-$ | US- 20020016601-$ | US- 20020041891-$ | US- 20020058952-$ | US- 20020107527-$ | US-					

		20020128663-$ | US- 20020133110-$ | US- 20020133176-$ | US- 20020151826-$ | US- 20020151908-$ | US- 20020188261-$ | US- 20030012415-$ | US- 20030018252-$ | US- 20030060834-$ | US- 20030093040-$ | US- 20030093089-$ | US- 20030097139-$ | US- 20030167032-$ | US- 20030187462-$ | US- 20030208159-$ | US- 20030212127-$ | US- 20030212415-$ | US- 20040010222-$ | US- 20040010269-$ | US- 20040015139-$ | US- 20040087972-$ | US- 20040092895-$ | US- 20040092959-$ | US- 20040097967-$ | US- 20040122447-$ | US- 20040127914-$ | US- 20040143274-$ | US- 20040162565-$ | US- 20040166172-$ | US- 20040219179-$ | US- 20040236291-$ | US- 20040243149-$ | US- 20040254587-$ | US- 20040267285-$ | US- 20050037034-$ | US- 20050038448-$ | US- 20050059940-$ | US- 20050084509-$ | US- 20050148958-$).DID.					
L46	173	(US-20050203111-$ | US-20050209611-$ | US-20050283176-$ | US-20060002960-$ | US-20060116674-$ | US-20060161178-$ | US-20060189964-$ | US-20060191562-$ | US-20060200099-$ | US-20060200172-$ | US-20060200173-$ | US-20060212029-$ | US-20060253125-$ | US-20060264893-$ | US-20070005078-$ | US-20070043382-$ | US-20070065515-$ | US-20070088371-$ | US-20070123808-$ |	(US-PGPUB; USPAT)	OR	OFF	OFF	2017/12/08 06:08 AM

		US-20070154502-$ | US-20070156124-$ | US-20070178121-$ | US-20070198031-$ | US-20070208353-$ | US-20070239173-$ | US-20080027328-$ | US-20080091179-$ | US-20080103563-$ | US-20080119781-$ | US-20080132914-$ | US-20080139974-$ | US-20080154161-$ | US-20080193493-$ | US-20080200861-$ | US-20080208146-$ | US-20080214987-$ | US-20080215068-$ | US-20080221548-$ | US-20080243039-$ | US-20080287864-$ | US-20080300529-$ | US-20080300552-$ | US-20090048557-$ | US-20090053390-$ | US-20090062815-$ | US-20090099091-$ | US-20090099093-$ | US-20090124985-$ | US-20090138026-$ | US-20090177171-$ | US-20090192442-$ | US-20090222023-$ | US-20100045427-$ | US-20100049177-$ | US-20100049210-$ | US-20100217357-$ | US-20100305495-$ | US-20110054490-$ | US-20110066162-$ | US-20110082415-$ | US-20120022435-$ | US-20120041338-$ | US-20120136374-$ | US-20130018317-$ | US-20130066336-$ | US-20130096577-$ | US-20130102978-$ | US-20130144280-$ | US-20130158547-$ | US-20140343481-$ | US-20140343574-$ | US-20150032047-$ | US-20150230824-$ | US-20150230825-$ | US-20150231379-$ | US-20150265822-$ | US-20150272623-$ |					

		US-20150290442-$ | US-20160038183-$ | US-20160256671-$ | US-20170036002-$ | US-20170065801-$ | US-2106780-$ | US-26389231-$ | US-3085573-$ | US-3214869-$ | US-3476112-$ | US-3574239-$ | US-3715838-$ | US-3865352-$ | US-3866264-$ | US-3948265-$ | US-3964212-$ | US-3977084-$ | US-4121388-$ | US-4155721-$ | US-4170821-$ | US-4182329-$ | US-4203431-$ | US-4216233-$ | US-4299219-$ | US-4378804-$ | US-4560373-$ | US-4646480-$ | US-4646482-$ | US-4655743-$ | US-4676749-$ | US-4706676-$ | US-4754756-$ | US-4757814-$ | US-4764362-$ | US-4795421-$ | US-4836192-$ | US-4875287-$ | US-4886078-$ | US-4887994-$ | US-4900316-$ | US-4917086-$ | US-4925450-$ | US-4957747-$ | US-5006004-$ | US-5006339-$ | US-5012797-$ | US-5035089-$ | US-5037431-$ | US-5037432-$ | US-5100412-$ | US-5100424-$ | US-5119839-$ | US-5122153-$ | US-5207234-$ | US-5222956-$ | US-5242433-$ | US-5254109-$ | US-5368581-$ | US-					

		5391151-$ | US- 5417674-$ | US- 5419772-$ | US- 5460620-$ | US- 5470323-$ | US- 5484427-$ | US- 5562642-$ | US- 5611687-$ | US- 5612797-$ | US- 5674235-$ | US- 5676643-$ | US- 5676648-$ | US- 5683971-$ | US- 5697920-$ | US- 5707383-$ | US- 5713785-$ | US- 5735833-$ | US- 5759185-$ | US- 5779519-$ | US- 5800446-$ | US- 5807353-$ | US- 5810842-$ | US- 5813416-$ | US- 5817050-$ | US- 5846215-$ | US- 5848998-$ | US- 5861142-$ | US- 5873881-$ | US- 5879323-$ | US- 5882201-$ | US- 5885260-$ | US- 5908401-$ | US- 5919152-$ | US- 5954730-$ | US- 5971999-$ | US- 5980555-$ | US- 6019749-$ | US- 6024733-$ | US- 6027402-$).DID.					
L47	141	(US-6039745-$ | US- 6042552-$ | US- 6080165-$ | US- 6080166-$ | US- 6090085-$ | US- 6120512-$ | US- 6129701-$ | US- 6136008-$ | US- 6139553-$ | US- 6139554-$ | US- 6142155-$ | US- 6149634-$ | US- 6159226-$ | US- 6162218-$ | US- 6162232-$ | US- 6183451-$ | US- 6183483-$ | US- 6193589-$ | US- 6231593-$ | US-	(US-PGPUB; USPAT)	OR	OFF	OFF	2017/12/08 06:08 AM

		6235039-$ | US- 6238275-$ | US- 6241739-$ | US- 6264666-$ | US- 6277128-$ | US- 6283978-$ | US- 6299620-$ | US- 6306119-$ | US- 6306147-$ | US- 6322568-$ | US- 6368333-$ | US- 6387103-$ | US- 6401289-$ | US- 6409736-$ | US- 6410599-$ | US- 6414032-$ | US- 6420431-$ | US- 6423078-$ | US- 6423750-$ | US- 6432113-$ | US- 6432114-$ | US- 6471712-$ | US- 6477410-$ | US- 6482212-$ | US- 6488646-$ | US- 6494856-$ | US- 6500183-$ | US- 6503256-$ | US- 6511486-$ | US- 6514262-$ | US- 6527783-$ | US- 6535761-$ | US- 6540757-$ | US- 6562013-$ | US- 6562050-$ | US- 6564093-$ | US- 6565535-$ | US- 6582442-$ | US- 6589218-$ | US- 6592595-$ | US- 6629983-$ | US- 6641591-$ | US- 6645184-$ | US- 6652888-$ | US- 6673081-$ | US- 6673082-$ | US- 6685853-$ | US- 6687537-$ | US- 6695853-$ | US- 6735470-$ | US- 6743211-$ | US- 6743215-$ | US- 6764493-$ | US- 6869611-$ | US- 6905487-$ | US- 6911031-$ | US- 6926681-$ | US- 6942649-$ | US-						

		7001355-$ | US- 7004933-$ | US- 7044938-$ | US- 7052503-$ | US- 7069073-$ | US- 7070488-$ | US- 7083580-$ | US- 7087063-$ | US- 7094252-$ | US- 7115275-$ | US- 7135011-$ | US- 7153311-$ | US- 7197359-$ | US- 7198623-$ | US- 7232444-$ | US- 7241208-$ | US- 7276051-$ | US- 7314326-$ | US- 7316657-$ | US- 7318828-$ | US- 7320691-$ | US- 7320801-$ | US- 7354423-$ | US- 7364565-$ | US- 7384405-$ | US- 7427273-$ | US- 7458944-$ | US- 7476205-$ | US- 7477938-$ | US- 7482314-$ | US- 7489989-$ | US- 7507228-$ | US- 7582067-$ | US- 7597900-$ | US- 7597901-$ | US- 7658742-$ | US- 7678120-$ | US- 7744582-$ | US- 7789886-$ | US- 7837695-$ | US- 7901373-$ | US- 7951156-$ | US- 8025669-$ | US- 8048089-$ | US- 8066716-$ | US- 8088085-$ | US- 8128638-$ | US- 8221437-$ | US- 8236008-$ | US- 8277287-$ | US- 8337513-$ | US- 8343116-$ | US- 8814836-$ | US- 9056193-$ | US- 9468464-$ | US- 9474886-$ | US- 9486615-$ | US- 9498610-$ | US-					

		9550052-$ | US-9566088-$ | US-9642997-$ | US-9662482-$ | US-RE37796-$ | US-RE42960-$).DID.					
L48	21	("6241739" | "6500183").PN. OR ("7153311").URPN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2017/12/08 06:52 AM
L49	51	(roger near2 ignon).in.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2017/12/08 06:58 AM
L50	1	"6277128".pn.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2017/12/08 07:05 AM
L51	23	("6277128").URPN.	(USPAT)	OR	OFF	OFF	2017/12/08 07:22 AM
L52	48	("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	2017/12/08 07:22 AM
L53	160	(tip and passage and outer and inner and spiral).clm.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2017/12/08 07:51 AM
L54	1813	A61N5/0616.cpc.	(US-PGPUB; USPAT)	OR	OFF	OFF	2017/12/08 12:10 PM
L55	263	A61N5/0616.cpc. and (abras$4 abrad$4 dermabra$4 microdermabra$4)	(US-PGPUB; USPAT)	OR	OFF	OFF	2017/12/08 12:12 PM
L56	41	("5759185" | "6139554" | "6162232" | "6183483" | "6241739").PN. OR ("6641591").URPN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2017/12/08 12:17 PM
L57	4	("6277128" "8048089" "6629983" "20010037118").pn.	(US-PGPUB; USPAT)	OR	OFF	OFF	2018/03/14 06:17 AM
L58	0	(14/700,789 14/698,713 13/267,554 "14698,673").pn.	(US-PGPUB; USPAT)	OR	OFF	OFF	2018/03/14 06:51 AM
L59	12	(14/700,789 14/698,713 13/267,554 "14698,673")	(US-PGPUB; USPAT)	OR	OFF	OFF	2018/03/14 06:51 AM
L60	4	(tip and skin and (handle handpiece) and (lumen passage) and fluid and outer and	(US-PGPUB; USPAT)	OR	OFF	OFF	2018/03/15 04:41 AM

		inner and member and spiral$7).clm.					
L61	9	("20170224972"|"20170245876"|"20170266424"|"20170319836"|"20170333689"|"5490736"|"7293930"|"9775646"|"9814868").PN.	(US-PGPUB; USPAT)	OR	OFF	OFF	2018/03/15 05:16 AM
L62	1	15/660,750	(US-PGPUB; USPAT)	OR	OFF	OFF	2018/09/12 01:36 PM
L63	1	15/660,777	(US-PGPUB; USPAT)	OR	OFF	OFF	2018/09/12 01:37 PM
L64	32	("1651585"|"20130004230"|"20170209894"|"3037509"|"3468079"|"3481677"|"3505993"|"3968789"|"4225254"|"4289158"|"4718467"|"4811734"|"5054339"|"5171215"|"5192269"|"5387215"|"5441490"|"5512044"|"5562643"|"5762640"|"5857995"|"6023639"|"6165059"|"6196982"|"6322548"|"6332886"|"6666874"|"6800083"|"6960206"|"7485125"|"7993333"|"8105295").PN.	(US-PGPUB; USPAT)	OR	OFF	OFF	2018/09/12 03:33 PM
L65	1	("10035007").PN.	(US-PGPUB; USPAT)	OR	OFF	OFF	2018/09/12 03:34 PM
L75	5	("4940350" "10172644" "10179229" "20060222445" "20180318568").pn.	(US-PGPUB; USPAT)	OR	OFF	OFF	2019/03/02 11:08 AM
L76	79	(tip AND skin AND abra$4 AND vacuum AND hand$7).clm.	(US-PGPUB; USPAT; USOCR; FIT (CN, FR, WO); FPRS; EPO)	OR	ON	ON	2021/03/27 06:58 AM
L77	79	(tip AND skin AND abra$4 AND vacuum AND hand$7).clm.	(US-PGPUB; USPAT; USOCR; FIT (CN, FR, WO); EPO)	OR	ON	ON	2021/03/27 06:59 AM
L78	80	(roger near2 ignon).in.	(US-PGPUB; USPAT; USOCR; FIT (CN, FR, WO); EPO)	OR	ON	ON	2021/03/27 07:00 AM
L79	6	L78 AND (christian near2 knauss).xa.	(US-PGPUB; USPAT; USOCR; FIT (CN, FR, WO); EPO)	OR	ON	ON	2021/03/27 07:00 AM
L80	6	L79 AND angle$4	(US-PGPUB; USPAT; USOCR; FIT (CN, FR, WO); EPO)	OR	ON	ON	2021/03/27 07:10 AM
L81	1	L79 AND (angle$4).clm.	(US-PGPUB; USPAT; USOCR; FIT (CN, FR, WO); EPO)	OR	ON	ON	2021/03/27 07:10 AM
L82	87	("6629983" "20010037118")	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/04/10 03:47 PM

L83	2	("6629983" "20010037118").pn.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/04/10 03:48 PM
L84	2843	A61B17/50.cpc.	(US-PGPUB; USPAT; USOCR; FIT (CN, FR, WO); FPRS; EPO)	OR	OFF	OFF	2021/04/10 10:03 PM
L85	2739	A61B17/3205.cpc.	(US-PGPUB; USPAT; USOCR; FIT (CN, FR, WO); FPRS; EPO)	OR	OFF	OFF	2021/04/10 10:03 PM
L86	11297	A61B2017/00017.cpc.	(US-PGPUB; USPAT; USOCR; FIT (CN, FR, WO); FPRS; EPO)	OR	OFF	OFF	2021/04/10 10:04 PM
L87	537	("10035007"|"10076646"|"10130390"|"10172644"|"10179229"|"10188193"|"10206743"|"10220122"|"10238812"|"10251675"|"10314378"|"10334933"|"10357641"|"10369073"|"10456321"|"10456567"|"10485983"|"10524835"|"10556096"|"10556097"|"10667985"|"10737080"|"10758261"|"10918190"|"10946191"|"10993743"|"11020577"|"1651585"|"20010023351"|"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"|"20040122447"|"20040127914"|"20040138680"|"20040143274"|"20040162565"|"20040166172"|"20040219179"|"20040236291"|"20040243149"|"20040254587"|"20040267285"|"20050037034"|"20050038448"|"20050059940"|"2005008450	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/09/26 03:02 AM

		9"|"20050148958"|"200 50203111"|"200502096 11"|"20050283176"|"20 060002960"|"20060116 674"|"20060161178"|"2 0060189964"|"2006019 1562"|"20060200099"|" 20060200172"|"200602 00173"|"20060212029"| "20060222445"|"20060 253125"|"20060264893 "|"20060269580"|"2007 0005078"|"2007004338 2"|"20070065515"|"200 70088371"|"200701238 08"|"20070139630"|"20 070154502"|"20070156 124"|"20070178121"|"2 0070198031"|"2007020 8353"|"20070239173"|" 20080027328"|"200800 91179"|"20080103563"| "20080119781"|"20080 132914"|"20080139974 "|"20080154161"|"2008 0193493"|"2008020086 1"|"20080208146"|"200 80214987"|"200802150 68"|"20080221548"|"20 080243039"|"20080287 864"|"20080300529"|"2 0080300552"|"2009004 8557"|"20090053390"|" 20090062815"|"200900 99091"|"20090099093"| "20090124985"|"20090 138026"|"20090177171 "|"20090192442"|"2009 0222023"|"2010002300 3"|"20100045427"|"201 00049177"|"201000492 10"|"20100217357"|"20 100305495"|"20110054 490"|"20110066162"|"2 0110082415"|"2011029 5273"|"20120022435"|" 20120041338"|"201201 36374"|"20130004230"| "20130018317"|"20130 066336"|"20130096577 "|"20130102978"|"2013 0144207"|"2013014428 0"|"20130158547"|"201 40079686"|"201402340 04"|"20140343481"|"20 140343574"|"20140378 887"|"20150032047"|"2 0150230824"|"2015023					

		0825"|"20150231379"|" 20150265822"|"201502 72632"|"20150290442"| "20160018100"|"20160 038183"|"20160235257 "|"20160250415"|"2017 0036002"|"2017004315 0"|"20170065801"|"201 70209894"|"201801403 29"|"20180185675"|"20 180318568"|"20190070 069"|"20190133642"|"2 0190143089"|"2019015 1637"|"20190223914"|" 20190336740"|"202000 09007"|"20200016342"| "20200171288"|"20200 171289"|"20200179220 "|"20200289161"|"2020 0316270"|"2020033858 6"|"20200390468"|"202 10085367"|"202101454 80"|"20210145481"|"20 210154453"|"20210154 454"|"20210177463"|"2 608032"|"2631583"|"27 01559"|"2712823"|"286 7214"|"2881763"|"2921 585"|"3037509"|"30855 73"|"3214869"|"346807 9"|"3476112"|"3481677" |"3505993"|"3560100"|" 3574239"|"3715838"|"3 865352"|"3866264"|"39 30598"|"3948265"|"396 4212"|"3968789"|"3977 084"|"4121388"|"41557 21"|"4170821"|"418232 9"|"4203431"|"4216233" |"4225254"|"4289158"|" 4299219"|"4342522"|"4 378804"|"4500222"|"45 60373"|"4646480"|"464 6482"|"4655743"|"4676 749"|"4706676"|"47184 67"|"4754756"|"475781 4"|"4764362"|"4795421" |"4811734"|"4836192"|" 4875287"|"4886078"|"4 887994"|"4900316"|"49 17086"|"4925450"|"494 0350"|"4957747"|"5006 004"|"5006339"|"50127 97"|"5035089"|"503743 1"|"5037432"|"5054339" |"5100412"|"5100424"|" 5119839"|"5122153"|"5 171215"|"5192269"|"52					

		07234"|"5222956"|"524 2433"|"5254109"|"5368 581"|"5387215"|"53911 51"|"5417674"|"541977 2"|"5441490"|"5460620" |"5470323"|"5484427"|" 5490736"|"5512044"|"5 562642"|"5562643"|"56 11687"|"5612797"|"567 4235"|"5676643"|"5676 648"|"5683971"|"56979 20"|"5707383"|"571378 5"|"5735833"|"5759185" |"5762640"|"5779519"|" 5800446"|"5807353"|"5 810842"|"5813416"|"58 17050"|"5834510"|"584 6215"|"5848998"|"5857 995"|"5861142"|"58738 81"|"5879323"|"588220 1"|"5885260"|"5908401" |"5919152"|"5954730"|" 5971999"|"5980555"|"6 019749"|"6023639"|"60 24733"|"6027402"|"603 9745"|"6042552"|"6080 165"|"6080166"|"60900 85"|"6120512"|"612970 1"|"6136008"|"6139553" |"6139554"|"6142155"|" 6149634"|"6159226"|"6 162218"|"6162232"|"61 65059"|"6183451"|"618 3483"|"6193589"|"6196 982"|"6231593"|"62350 39"|"6238275"|"624173 9"|"6264666"|"6283978" |"6299620"|"6306119"|" 6306147"|"6322548"|"6 322568"|"6332886"|"63 68333"|"6387103"|"640 1289"|"6409736"|"6410 599"|"6414032"|"64204 31"|"6423078"|"642375 0"|"6432113"|"6432114" |"6471712"|"6477410"|" 6482212"|"6488646"|"6 494856"|"6500183"|"65 03256"|"6508813"|"651 1486"|"6514262"|"6527 783"|"6535761"|"65372 42"|"6540757"|"656201 3"|"6562050"|"6564093" |"6565535"|"6582442"|" 6589218"|"6592595"|"6 626445"|"6629927"|"66 41591"|"6645184"|"665 2888"|"6666874"|"6673						

		081"|"6673082"|"66858 53"|"6687537"|"669585 3"|"6735470"|"6743211" |"6743215"|"6764493"|" 6800083"|"6869611"|"6 905487"|"6911031"|"69 26681"|"6938805"|"694 2649"|"6960206"|"7001 355"|"7004933"|"70449 38"|"7051907"|"705250 3"|"7069073"|"7070488" |"7083580"|"7087063"|" 7094252"|"7115275"|"7 135011"|"7153311"|"71 66086"|"7197359"|"719 8623"|"7232444"|"7241 208"|"7276051"|"72939 30"|"7314326"|"731665 7"|"7316671"|"7318828" |"7320691"|"7320801"|" 7354423"|"7364565"|"7 384405"|"7422567"|"74 27273"|"7458944"|"747 6205"|"7477938"|"7482 314"|"7485125"|"74899 89"|"7507228"|"758206 7"|"7597900"|"7597901" |"7658742"|"7678120"|" 7744582"|"7789886"|"7 837695"|"7857806"|"79 01373"|"7951156"|"799 3333"|"8025669"|"8048 089"|"8066716"|"80880 85"|"8105295"|"812863 8"|"8221437"|"8231292" |"8236008"|"8277287"|" 8337513"|"8343116"|"8 475507"|"8573874"|"85 79916"|"8721662"|"881 4836"|"8858570"|"8939 669"|"8945104"|"90501 33"|"9056193"|"907253 3"|"9468464"|"9474886" |"9486615"|"9498610"|" 9517085"|"9550052"|"9 566088"|"9642997"|"96 62482"|"9700684"|"973 1053"|"9775645"|"9775 646"|"9814868"|"98332 61"|"9861442"|"991872 7"|"9949552"|"9950147" |"9955769"|"D486915"|" D496101"|"D522360"|" D553005"|"D584151"|" D664254"|"D678783"|" D709617"|"D722172"|" D743558"|"D787054"|" D811381"|"D822845"|"					

		D825763"|"D836781"|"D851759"|"D852962"|"D861913"|"D867587"|"D868981"|"D893024"|"RE37796"|"RE42960").PN.					
L88	94	L87 AND (spiral$7 helical$4)	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/09/26 03:09 AM
L89	1	"6641591".pn.	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, CA, CH, CN, DD, DE, EA, EP, ES, FR, GB, JP, KR, OA, RU, SU, WO); EPO)	OR	ON	ON	2021/09/26 03:15 AM
L90	47	(tip AND inner AND outer AND vacuum AND abra$4 AND angl$4).clm.	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, CA, CH, CN, DD, DE, EA, EP, ES, FR, GB, JP, KR, OA, RU, SU, WO); EPO)	OR	ON	ON	2021/10/07 06:35 PM
L91	22	("3994290" | "6129469" | "6299620" | "6629983" | "6641591" | "7678120" | "7789886" | "8048089" | "8066716" | "8337513" | "20020016601" | "20030060834" | "20040153014" | "20070005078" | "20090198159" | "20100064459" | "20100262051" | "20130066336" | "20140014128" | "20140194900" | "20140202493" | "20150088050").pn. OR ("10912428").urpn. AND (PGPB | USPT | USOC).dbnm.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/10/07 06:37 PM
L92	5	((US-20100049177-A1 OR US-20170319836-A1).did. AND PGPB.dbnm.) OR ((US-8945104-B2 OR US-10357642-B2 OR US-10912428-B2).did. AND USPT.dbnm.)	(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, SK, TH, TN, TR, TW, UA, VN))	OR	ON	ON	2021/10/07 06:42 PM

L93	5	((US-20100049177-A1 OR US-20170319836-A1).did. AND PGPB.dbnm.) OR ((US-8945104-B2 OR US-10357642-B2 OR US-10912428-B2).did. AND USPT.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	2021/10/07 06:42 PM
L94	35	((US-20100049177-A1 OR US-20170319836-A1 OR US-20110082415-A1 OR US-20090177171-A1 OR US-20070239173-A1 OR US-20070208353-A1 OR US-20060200173-A1 OR US-20060200172-A1 OR US-20060189964-A1 OR US-20040254587-A1 OR US-20040186421-A1 OR US-20040143274-A1 OR US-20040097967-A1 OR US-20020016601-A1 OR US-20010037118-A1).did. AND PGPB.dbnm.) OR ((US-8945104-B2 OR US-10357642-B2 OR US-10912428-B2 OR US-8337513-B2 OR US-8066716-B2 OR US-8048089-B2 OR US-7789886-B2 OR US-7678120-B2 OR US-7364565-B2 OR US-7153311-B2 OR US-7044938-B2 OR US-6641591-B1 OR US-6926681-B1 OR US-6629983-B1 OR US-6511486-B2 OR US-6387103-B2 OR US-6299620-B1 OR US-6277128-B1 OR US-5279543-A OR US-6162232-A).did. AND USPT.dbnm.)	(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, SK, TH, TN, TR, TW, UA, VN))	OR	ON	ON	2021/10/07 07:27 PM
L95	117	("2701559" | "2712823" | "2867214" | "2881763" | "2921585" | "3964212" | "4378804" | "4957747" | "5012797" | "5037431" | "5037432" | "5100412" | "5207234" | "5800446"	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/10/07 08:09 PM

		| "5810842" | "5971999" | "6042552").pn. OR ("6241739").urpn. AND (PGPB | USPT | USOC).dbnm.					
L96	117	("2701559" | "2712823" | "2867214" | "2881763" | "2921585" | "3964212" | "4378804" | "4957747" | "5012797" | "5037431" | "5037432" | "5100412" | "5207234" | "5800446" | "5810842" | "5971999" | "6042552").pn. OR ("6241739").urpn. AND (PGPB | USPT | USOC).dbnm.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/10/08 03:12 PM
L97	86	("2701559" | "2712823" | "2867214" | "2881763" | "2921585" | "3964212" | "4121388" | "4378804" | "4646482" | "4957747" | "5012797" | "5035089" | "5037431" | "5037432" | "5100412" | "5207234" | "5800446" | "5810842" | "5971999" | "6042552" | "6423078").pn. OR ("6500183").urpn. AND (PGPB | USPT | USOC).dbnm.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/10/08 03:16 PM
L98	1254	L54 AND (slop$4 angl$4)	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/10/08 03:18 PM
L99	3864	L54 AND (slop$4 angl$4)	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, CA, CH, CN, DD, DE, EA, EP, ES, FR, GB, JP, KR, OA, RU, SU, WO); EPO)	OR	ON	ON	2021/10/08 03:18 PM
L100	1685	L54 AND ((tip surface face) WITH (slop$4 angl$4))	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, CA, CH, CN, DD, DE, EA, EP, ES, FR, GB, JP, KR, OA, RU, SU, WO); EPO)	OR	ON	ON	2021/10/08 03:18 PM
L101	404	L54 AND ((tip surface face) WITH (slop$4 angl$4)) AND (vacuum$4 suction$4 aspirat$4 negative ADJ pressure)	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, CA, CH, CN, DD, DE, EA, EP, ES, FR, GB, JP, KR, OA, RU, SU, WO); EPO)	OR	ON	ON	2021/10/08 03:19 PM
L102	18936	(derm$7 microderm$7) AND ((tip surface face) WITH (slop$4 angl$4)) AND (vacuum$4 suction$4 aspirat$4	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, CA, CH, CN, DD, DE, EA, EP, ES, FR, GB, JP, KR, OA, RU,	OR	ON	ON	2021/10/08 03:22 PM

		negative ADJ pressure)	SU, WO); EPO)				
L103	18936	(derm$7 microderm$7) AND ((tip surface face) WITH (slop$4 angl$4)) AND (vacuum$4 suction$4 aspirat$4 (negative ADJ pressure))	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, CA, CH, CN, DD, DE, EA, EP, ES, FR, GB, JP, KR, OA, RU, SU, WO); EPO)	OR	ON	ON	2021/10/08 03:22 PM
L104	3642	(derm$7 microderm$7) AND (abrad$4 abras$4) AND ((tip surface face) WITH (slop$4 angl$4)) AND (vacuum$4 suction$4 aspirat$4 (negative ADJ pressure))	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, CA, CH, CN, DD, DE, EA, EP, ES, FR, GB, JP, KR, OA, RU, SU, WO); EPO)	OR	ON	ON	2021/10/08 03:23 PM
L105	1735	(derm$7 microderm$7) AND (abrad$4 abras$4) AND ((tip surface face) WITH (slop$4 angl$4)) AND (vacuum$4 suction$4 aspirat$4 (negative ADJ pressure))	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/10/08 03:31 PM
L106	1865	(derm$9 microderm$9) AND (abrad$4 abras$4) AND ((tip surface face) WITH (slop$4 angl$4)) AND (vacuum$4 suction$4 aspirat$4 (negative ADJ pressure))	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/10/08 03:33 PM
L107	5	("6171275" | "20070156124" | "20100049177" | "20110046539" | "20130345661").pn. OR ("9186490").urpn. AND (PGPB | USPT | USOC).dbnm.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/10/08 05:43 PM
L108	4	("20040092959" | "20090157094" | "20130002411" | "20130158547").pn. OR ("10456321").urpn. AND (PGPB | USPT | USOC).dbnm.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/10/08 05:47 PM
L109	15	13/840,889	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, CA, CH, CN, DD, DE, EA, EP, ES, FR, GB, JP, KR, OA, RU, SU, WO); EPO)	OR	ON	ON	2021/10/09 08:22 PM
L110	8	("8573874" | "8864401" | "20090062815" |	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/10/09 08:23 PM

		"20110123252" | "20110190672").pn. OR ("9565920").urpn. AND (PGPB | USPT | USOC).dbnm.					
L111	197	L87 AND (angle$4 slop$4)	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/10/09 08:34 PM
L112	11	("11202657"|"11213321"|"11224728"|"11241357"|"20060278661"|"20070093694"|"20080200863"|"20130261534"|"20210145479"|"20210353922"|"6635035").PN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/05/06 04:33 AM
L113	0	(hydrafacial).as.	(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	2022/09/02 12:05 AM
L114	2	("9550052" "11446477").pn.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2023/10/04 04:52 AM
L115	11	("20010049511" "20030093089" "20030018252" "3865352" "6277128" "6432114" "6695853" "7232444" "20060116674" "3930598" "6162232").pn.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2023/10/04 05:01 AM
L116	46	(Artificial Intelligence) Similar to: 18/094,884 with 0 CPC Selections and 0 Text Selections Text: (US-11446477-B2 OR US-9550052-B2 OR US-20190336740-A1 OR US-20230158282-A1 OR US-20070156124-A1 OR US-9662482-B2 OR US-10357642-B2 OR US-20170319836-A1 OR US-10357641-B2 OR US-11612726-B2	(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))	OR	ON	ON	2023/10/04 05:32 AM

		OR US-20150231379-A1 OR US-20150290442-A1 OR US-8048089-B2 OR US-20170319835-A1 OR US-20210154455-A1 OR US-9814868-B2 OR US-11547840-B2 OR US-20150272623-A1 OR US-9474886-B2 OR US-20120022435-A1 OR US-20210154454-A1 OR US-20170245876-A1 OR EP-3795204-A1 OR US-20210154453-A1 OR US-10251675-B2 OR US-20140343574-A1 OR US-11744999-B2 OR US-9566088-B2 OR EP-3237055-B1 OR WO-2023064718-A1 OR US-9498610-B2 OR US-20160256671-A1 OR US-20170065801-A1 OR US-20190223914-A1 OR US-10035007-B2 OR US-20210145479-A1 OR US-20150230824-A1 OR EP-3237055-A1 OR WO-2016106396-A1 OR US-9468464-B2 OR US-20150230825-A1 OR CA-2971728-A1 OR US-9775646-B2 OR US-20180318568-A1 OR US-11717326-B2 OR WO-2022081212-A1 OR US-8337513-B2 OR EP-4179986-A1 OR US-20070208353-A1 OR US-20040143274-A1).did.					
L117	386	("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"	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2023/10/04 05:35 AM

		| "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" | "5612797" | "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" | "20150272623" | "20150290442" | "20160038183").pn. OR ("9566088").urpn. AND (PGPB | USPT | USOC).dbnm.					
L118	1025	("11744999"|"20050245180"|"10004919"|"10010445"|"10022289"|"10035007"|"10052467"|"10076354"|"10076646"|"10080581"|"10092478"|"10105191"|"10130390"|	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2023/10/04 03:06 PM

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L119	1133	A61B17/3205.cpc.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2023/10/04 08:27 PM
L120	189	L119 AND (console manifold)	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2023/10/04 08:27 PM
L121	1764	A61B2017/320004.cpc.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2023/10/04 08:28 PM
L122	298	L121 AND (console manifold)	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2023/10/04 08:29 PM
L123	0	hyrdafacial.as.	(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	2023/10/04 09:25 PM
L124	5	hydrafacial.as.	(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,	OR	ON	ON	2023/10/04 09:25 PM

			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)				
L125	58516	moxibustion	(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	2023/10/10 05:06 PM
L126	3	("11744999" "20050245180" "2023164572").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	2023/10/20 05:15 PM
L127	952	("10004919"|"10010445"|"10022289"|"10035007"|"10052467"|"10076354"|"10076646"|"10080581"|"10092478"|"10105191"|"10130390"|"10130827"|"10149969"|"10149984"|"10172644"|"10179229"|"10183183"|"10188193"|"10206743"|"10207034"|"10220122"|"10238812"|"10238849"|"10251675"|"10252044"|"10271900"|"10272258"|"10307330"|"10308378"|"10314378"|"10321948"|"10328277"|"10334933"|"10335191"|"10357641"|"10357642"|"10369073"|"10413359"|"10456197"|"10456321"|"10456567"|"10463429"	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2023/10/20 05:17 PM

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L128	1	(skin AND console AND first AND second AND (bottle container) AND (handle handpiece) AND (block manifold) AND select$4 AND fluid AND (tube tubing conduit line) AND (vacuum$4 suction$4 aspirat$4) AND waste AND sequential$4).clm.	(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	2023/10/20 05:35 PM
L129	1	(skin AND console AND (first second third) AND (bottle container) AND (handle handpiece) AND (block manifold) AND select$4 AND fluid AND (tube tubing conduit line) AND (vacuum$4 suction$4 aspirat$4) AND waste AND sequential$4).clm.	(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	2023/10/20 05:35 PM
L130	2	(skin AND console AND (first second third) AND (bottle container) AND (handle handpiece) AND (block manifold) AND fluid AND (tube tubing conduit line) AND (vacuum$4 suction$4 aspirat$4) AND waste AND sequential$4).clm.	(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	2023/10/20 05:36 PM
L131	2	(skin AND console AND (first second third) AND (bottle container) AND	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY,	OR	ON	ON	2023/10/20 05:36 PM

		(handle handpiece) AND (block manifold) AND treat$4 AND fluid AND (tube tubing conduit line) AND (vacuum$4 suction$4 aspirat$4) AND waste AND sequential$4).clm.	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)				
L132	2	(skin AND console AND (first second third) AND (bottle container) AND (handle handpiece) AND (block manifold) AND treat$4 AND fluid AND (tube tubing conduit line lumen) AND (vacuum$4 suction$4 aspirat$4) AND waste AND sequential$4).clm.	(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	2023/10/20 05:37 PM
L133	7	(skin AND console AND (first second third) AND (bottle container) AND (handle handpiece) AND (block manifold) AND treat$4 AND fluid AND (tube tubing conduit line lumen) AND (vacuum$4 suction$4 aspirat$4)).clm.	(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	2023/10/20 05:37 PM
L134	30	("9550052" "11446477")	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2023/10/20 07:33 PM
L135	2	("9550052" "11446477").pn.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2023/10/20 07:33 PM

PE2E SEARCH - Search History (Interference)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	British Equivalents	Time Stamp
N66	5	(tip and (hand$8) and (passage hole lumen channel) and periph$6 and inner and outer and spiral$7 and (pattern shape) and abra$7 and skin).clm.	(US-PGPUB; USPAT)	OR	OFF	OFF	2018/09/12 03:36 PM
N67	5	(tip and (hand$8) and	(US-PGPUB; USPAT)	OR	OFF	OFF	2018/09/12

		(passage hole lumen channel) and periph$6 and inner and outer and spiral$7 and (pattern shape) and abra$7).clm.					03:37 PM
N68	5	((tip cap) and (hand$8) and (passage hole lumen channel) and periph$6 and inner and outer and spiral$7 and (pattern shape) and abra$7).clm.	(US-PGPUB; USPAT)	OR	OFF	OFF	2018/09/12 03:38 PM
N69	8	((tip cap) and (hand$8) and (passage hole lumen channel) and inner and outer and spiral$7 and (pattern shape) and abra$7).clm.	(US-PGPUB; USPAT)	OR	OFF	OFF	2018/09/12 03:38 PM
N70	13	((tip cap) and (hand$8) and (passage hole lumen channel) and inner and outer and spiral$7 and abra$7).clm.	(US-PGPUB; USPAT)	OR	OFF	OFF	2018/09/12 03:39 PM
N71	19	((hand$8) and (passage hole lumen channel) and inner and outer and spiral$7 and abra$7).clm.	(US-PGPUB; USPAT)	OR	OFF	OFF	2018/09/12 03:39 PM
N72	7	((hand$8) and (passage hole lumen channel) and (vacuum$4 suction$4) and inner and outer and spiral$7 and abra$7).clm.	(US-PGPUB; USPAT)	OR	OFF	OFF	2018/09/12 03:41 PM
N73	10	((hand$8) and (passage hole lumen channel) and (fluid debris) and inner and outer and spiral$7 and abra$7).clm.	(US-PGPUB; USPAT)	OR	OFF	OFF	2018/09/12 03:41 PM
N74	23	((hand$8) and (passage hole lumen channel) and (fluid debris) and spiral$7 and abra$7).clm.	(US-PGPUB; USPAT)	OR	OFF	OFF	2018/09/12 03:42 PM
N76	5	("4940350" "10172644" "10179229" "20060222445" "20180318568").pn.	(US-PGPUB; USPAT)	OR	OFF	OFF	2019/03/02 11:00 AM
N77	5	((tip cap) and skin and hand$7 and (passage hole lumen channel)	(US-PGPUB; USPAT)	OR	OFF	OFF	2019/03/02 11:11 AM

		and fluid and inner and outer and spiral$7 and abra$7).clm.					
N78	7	((tip cap) and hand$7 and (passage hole lumen channel) and fluid and inner and outer and spiral$7 and abra$7).clm.	(US-PGPUB; USPAT)	OR	OFF	OFF	2019/03/02 11:11 AM
N79	13	((tip cap) and hand$7 and (passage hole lumen channel) and inner and outer and spiral$7 and abra$7).clm.	(US-PGPUB; USPAT)	OR	OFF	OFF	2019/03/02 11:12 AM
N80	15	((tip cap) and hand$7 and (passage hole lumen channel) and (inner outer) and spiral$7 and abra$7).clm.	(US-PGPUB; USPAT)	OR	OFF	OFF	2019/03/02 11:13 AM
N81	25	((tip cap) and hand$7 and (passage hole lumen channel) and spiral$7 and abra$7).clm.	(US-PGPUB; USPAT)	OR	OFF	OFF	2019/03/02 11:13 AM
N82	18	((tip cap) and hand$7 and (vacuum$4 suction$4) and spiral$7 and abra$7).clm.	(US-PGPUB; USPAT)	OR	OFF	OFF	2019/03/02 11:15 AM
N83	3	(tip AND body AND skin AND treat$4 AND inner AND outer AND abra$7 AND spiral$7 AND (vacuum$4 suction$4 aspirat$4) AND (hole opening aperture recess lumen) AND (handle handpiece) AND angle$4 AND axis).clm.	(US-PGPUB; USPAT)	OR	ON	ON	2022/05/21 05:48 PM
N84	3	(tip AND skin AND treat$4 AND inner AND outer AND abra$7 AND spiral$7 AND (vacuum$4 suction$4 aspirat$4) AND (hole opening aperture recess lumen) AND (handle handpiece) AND angle$4 AND axis).clm.	(US-PGPUB; USPAT)	OR	ON	ON	2022/05/21 05:48 PM
N85	3	(tip AND skin AND treat$4 AND inner AND outer AND abra$7 AND	(US-PGPUB; USPAT)	OR	ON	ON	2022/05/21 05:48 PM

		spiral$7 AND (vacuum$4 suction$4 aspirat$4) AND (hole opening aperture recess lumen) AND (handle handpiece) AND angle$4).clm.					
N86	3	(tip AND treat$4 AND inner AND outer AND abra$7 AND spiral$7 AND (vacuum$4 suction$4 aspirat$4) AND (hole opening aperture recess lumen) AND (handle handpiece) AND angle$4).clm.	(US-PGPUB; USPAT)	OR	ON	ON	2022/05/21 05:49 PM
N87	3	(tip AND inner AND outer AND abra$7 AND spiral$7 AND (vacuum$4 suction$4 aspirat$4) AND (hole opening aperture recess lumen) AND (handle handpiece) AND angle$4).clm.	(US-PGPUB; USPAT)	OR	ON	ON	2022/05/21 05:49 PM
N88	10	(tip AND inner AND outer AND abra$7 AND spiral$7 AND (vacuum$4 suction$4 aspirat$4) AND (hole opening aperture recess lumen) AND (handle handpiece)).clm.	(US-PGPUB; USPAT)	OR	ON	ON	2022/05/21 05:49 PM
N89	1	(skin AND console AND first AND second AND (bottle container) AND (handle handpiece) AND (block manifold) AND select$4 AND fluid AND (tube tubing conduit line) AND (vacuum$4 suction$4 aspirat$4) AND waste AND sequential$4).clm.	(US-PGPUB; USPAT)	OR	ON	ON	2023/10/20 05:37 PM
N90	2	(skin AND console AND first AND second AND (bottle container) AND (handle handpiece) AND (block manifold) AND select$4 AND fluid AND (tube tubing conduit line) AND (vacuum$4 suction$4 aspirat$4)).clm.	(US-PGPUB; USPAT)	OR	ON	ON	2023/10/20 05:39 PM

N91	2	(skin AND console AND first AND second AND (bottle container) AND (handle handpiece) AND (block manifold) AND select$7 AND fluid AND (tube tubing conduit line) AND (vacuum$4 suction$4 aspirat$4)).clm.	(US-PGPUB; USPAT)	OR	ON	ON	2023/10/20 05:40 PM
N92	3	(console AND (first second third) AND (bottle container) AND (handle handpiece) AND (block manifold) AND select$7 AND fluid AND (tube tubing conduit line lumen) AND (vacuum$4 suction$4 aspirat$4)).clm.	(US-PGPUB; USPAT)	OR	ON	ON	2023/10/20 05:40 PM
N93	7	(console AND (first second third) AND (bottle container) AND (handle handpiece) AND (block manifold) AND fluid AND (tube tubing conduit line lumen) AND (vacuum$4 suction$4 aspirat$4)).clm.	(US-PGPUB; USPAT)	OR	ON	ON	2023/10/20 05:42 PM
N94	9	(console AND (bottle container) AND (handle handpiece) AND (block manifold) AND fluid AND (tube tubing conduit line lumen) AND (vacuum$4 suction$4 aspirat$4)).clm.	(US-PGPUB; USPAT)	OR	ON	ON	2023/10/20 05:43 PM
N95	11	(console AND (bottle container) AND (handle handpiece) AND (block manifold) AND fluid AND (tube tubing conduit line lumen)).clm.	(US-PGPUB; USPAT)	OR	ON	ON	2023/10/20 05:44 PM
N96	2	(console AND first AND second AND third AND (bottle container) AND (handle handpiece) AND (block manifold) AND fluid AND (tube tubing conduit line lumen)).clm.	(US-PGPUB; USPAT)	OR	ON	ON	2023/10/20 05:44 PM

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	18094884
Filing Date	09-Jan-2023
First Named Inventor	Roger Ignon
Attorney Docket Number	EDGE.005C10
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
HydraFacial 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.	
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.

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

Application No.: 18094884

Filing Date: 09-Jan-2023

Applicant/Patent under Reexamination: Ignon

Electronic Terminal Disclaimer filed on October 18, 2023

☒ 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:	48734024
Application Number:	18094884
International Application Number:	
Confirmation Number:	9223
Title of Invention:	DEVICES AND METHODS FOR TREATING SKIN
First Named Inventor/Applicant Name:	Roger Ignon
Customer Number:	20995
Filer:	Theodore G. Papagiannis/Gustavo Lopez
Filer Authorized By:	Theodore G. Papagiannis
Attorney Docket Number:	EDGE.005C10
Receipt Date:	18-OCT-2023
Filing Date:	09-JAN-2023
Time Stamp:	13:47:29
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	Terminal Disclaimer-Filed (Electronic)	eTerminal-Disclaimer.pdf	39646 a9d051bbab8ea6d36d448db74fd1c6dc3340d644	no	2

Warnings:

Information:	
Total Files Size (in bytes):	39646

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
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
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APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
18/094,884	01/09/2023	Roger Ignon	EDGE.005C10

CONFIRMATION NO. 9223

20995
KNOBBE MARTENS OLSON & BEAR LLP
2040 MAIN STREET
FOURTEENTH FLOOR
IRVINE, CA 92614

POA ACCEPTANCE LETTER

OC000000063368485

Date Mailed: 10/18/2023

NOTICE OF ACCEPTANCE OF POWER OF ATTORNEY

This is in response to the Power of Attorney filed 10/12/2023.

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**.

/ttran/

Application Number * 18/094,884 *	Application/Control No. 18/094,884	Applicant(s)/Patent under Reexamination Ignon et al.	
	Examiner KNAUSS, CHRISTIAN D	Art Unit 3771	

Document Code - DISQ	Internal Document - DO NOT MAIL

TERMINAL DISCLAIMER	☑ APPROVED	☐ DISAPPROVED
Date Filed: **16 October 2023**	**This patent is subject to a Terminal Disclaimer**	

Approved/Disapproved by:

/JEAN PROCTOR/

Technology Center: OPLC

Telephone: (571)272-1040

_____

TERMINAL DISCLAIMER UNDER 37 CFR § 1.321

First Inventor: Roger Ignon	**Conf. No.:** 9223
App. No.: 18/094,884	**Filed:** January 9, 2023
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

Disclaimer by Assignee

The assignee of the above-captioned application, HydraFacial LLC ("Assignee"), hereby disclaims the terminal part of the term of any patent granted on the above-captioned application that would extend beyond the earliest expiration date of the full statutory term of: (1) any patents listed below; and (2) any patents issuing from any patent application listed below:

- U.S. Patent No. 9,550,052
- U.S. Patent No. 11,446,477

(Above list hereinafter referred to as the "Listed Properties").

Assignee hereby agrees that any patent granted on the above-captioned application shall be enforceable only for and during the period that such patent is commonly owned with any patents in the Listed Properties and/or any patents issuing from any patent application in the Listed Properties. This agreement shall be binding on Assignee, its successors, or assigns.

Assignee does <u>not</u> disclaim the terminal part of any patent granted on the above-captioned application that would not extend beyond the expiration date of the full statutory term of any patent(s) in (or patents issuing from any patent application(s) in) the Listed Properties. Accordingly, if the actual term of any patent(s) in (or patents issuing from any patent application(s) in) the Listed Properties is shortened to anything less than the full statutory term—for example, if one of these patents: expires for failure to pay a maintenance fee; is held unenforceable; is found invalid; is statutorily disclaimed in whole; is terminally disclaimed under 37 CFR § 1.321; has all claims canceled by a reexamination certificate or by other means—Assignee does <u>not</u> hereby disclaim the portion of the term of any patent issuing from the above-captioned application that corresponds to that shortened period.

Right of Assignee and Ownership

In accordance with 37 CFR § 3.73(c), Assignee represents that it is the owner of a 100 percent interest in the above-captioned application and the commonly owned Listed Properties. The Assignee represents that, to the best of Assignee's knowledge and belief, title is in the Assignee seeking to take action here.

Empowerment of Attorney

Pursuant to 37 CFR § 1.321(a) the undersigned attorney of record is empowered to act on behalf of the Assignee by virtue of a Power of Attorney.

This Terminal Disclaimer is accompanied by the $170 fee set forth in 37 CFR § 1.20(d). The Commissioner is hereby authorized to charge any deficient fee to Deposit Account No. 11-1410.

Respectfully submitted,

KNOBBE, MARTENS, OLSON & BEAR LLP

Dated: October 16, 2023

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

58424764

UNITED STATES
PATENT AND TRADEMARK OFFICE

P.O. Box 1450
Alexandria, VA 22313 - 1450
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ELECTRONIC PAYMENT RECEIPT

APPLICATION #	RECEIPT DATE / TIME	ATTORNEY DOCKET #
18/094,884	**10/16/2023 09:34:39 PM ET**	**EDGE.005C10**

Title of Invention

DEVICES AND METHODS FOR TREATING SKIN

Application Information

APPLICATION TYPE	Utility - Nonprovisional Application under 35 USC 111(a)	PATENT #	-
CONFIRMATION #	9223	FILED BY	Will Nguyen
PATENT CENTER #	63008849	AUTHORIZED BY	Theodore Papagiannis
CUSTOMER #	20995	FILING DATE	01/09/2023
CORRESPONDENCE ADDRESS	-	FIRST NAMED INVENTOR	Roger Ignon

Payment Information

PAYMENT METHOD	PAYMENT TRANSACTION ID	PAYMENT AUTHORIZED BY
CARD / 1990	E20230FL35498000	Jennifer Neat

PRE-AUTHORIZED ACCOUNT	PRE-AUTHORIZED CATEGORY
111410	37 CFR 1.16 (National application filing, search, and examination fees); 37 CFR 1.17 (Patent application and reexamination processing fees)

FEE CODE	DESCRIPTION	ITEM PRICE($)	QUANTITY	ITEM TOTAL($)
1814	STATUTORY DISCLAIMER, INCLUDING TERMINAL DISCLAIMER	170.00	1	170.00
			TOTAL AMOUNT:	**$170.00**

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 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

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Alexandria, VA 22313 - 1450
www.uspto.gov

ELECTRONIC ACKNOWLEDGEMENT RECEIPT

APPLICATION #	RECEIPT DATE / TIME	ATTORNEY DOCKET #
18/094,884	**10/16/2023 09:34:39 PM ET**	**EDGE.005C10**

Title of Invention

DEVICES AND METHODS FOR TREATING SKIN

Application Information

APPLICATION TYPE	Utility - Nonprovisional Application under 35 USC 111(a)	PATENT #	-
CONFIRMATION #	9223	FILED BY	Will Nguyen
PATENT CENTER #	63008849	FILING DATE	01/09/2023
CUSTOMER #	20995	FIRST NAMED INVENTOR	Roger Ignon
CORRESPONDENCE ADDRESS	-	AUTHORIZED BY	Theodore Papagiannis

Documents

TOTAL DOCUMENTS: 1

DOCUMENT	PAGES	DESCRIPTION	SIZE (KB)
EDGE-005C10_TD.pdf	2	Terminal Disclaimer Filed	31 KB

Digest

DOCUMENT	MESSAGE DIGEST(SHA-512)
EDGE-005C10_TD.pdf	F9D01FF0D5B5B649F8FCF5F3BFB9F0A24764D83B1C996701A 130EB3F6114E7AB18F088E12272B061310F0D362812F1309533 43CF3F361BA808B56285F6B609B9

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ELECTRONIC ACKNOWLEDGEMENT RECEIPT

APPLICATION #	RECEIPT DATE / TIME	ATTORNEY DOCKET #
18/094,884	**10/16/2023 09:11:18 PM ET**	**EDGE.005C10**

Title of Invention

DEVICES AND METHODS FOR TREATING SKIN

Application Information

APPLICATION TYPE	Utility - Nonprovisional Application under 35 USC 111(a)	PATENT #	-
CONFIRMATION #	9223	FILED BY	Will Nguyen
PATENT CENTER #	63008642	FILING DATE	01/09/2023
CUSTOMER #	20995	FIRST NAMED INVENTOR	Roger Ignon
CORRESPONDENCE ADDRESS	-	AUTHORIZED BY	Theodore Papagiannis

Documents

TOTAL DOCUMENTS: 4

DOCUMENT		PAGES	DESCRIPTION	SIZE (KB)
EDGE005C10_OAR.pdf		18	-	192 KB
EDGE005C10_OAR-A....pdf	(1-1)	1	Amendment/Request for Reconsideration-After Non-Final Rejection	86 KB
EDGE005C10_OAR-CLM.pdf	(2-10)	9	Claims	140 KB
EDGE005C10_OAR-INTRVIEW.APP.pdf	(11-11)	1	Applicant summary of interview with examiner	86 KB
EDGE005C10_OAR-REM.pdf	(12-18)	7	Applicant Arguments/Remarks Made in an Amendment	131 KB

Digest

DOCUMENT	MESSAGE DIGEST(SHA-512)
EDGE005C10_OAR.pdf	55B6EDA9C4B0D6A293A0A6E4BE72B04CB5F904A82412FD6C E7639990CBBD4AE4940D733F5358A951BA058714EA443A3E8 DC696BDF433B87E93EA783FD6C876B0
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EDGE005C10_OAR-CLM.pdf	42303DF68D5A36A007A67100DE17100A5FB9C8291352DFE7F B814FCAFCB74BE450B09A38E3B8E6C699DFCF21552AB410C F176CE0A705C53FC6610CDAAF873C8C
EDGE005C10_OAR-INTRVIEW.APP.pdf	CB20BF5D44296ED3A1BA2AEA6010A6E6C31D7DB1EA466FB7 310100CC45B2B4CB2DF91F7AB8028BD8D36A40FDBF397B20 AFC8C13415EDA7A35A17D7360BB5B9A3
EDGE005C10_OAR-REM.pdf	11C355B65FF6095200000EFB6342CDCD49798A3F08B8F031C BE5E388362CCDAAF7D15009CEFEE5D1F1F99153A0AE39629 BB83C0FFDCFA5DBF67A86A87DD3CA35

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New International Application Filed with the USPTO as a Receiving Office

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

First Inventor: Roger Ignon	**Conf. No.:** 9223
Appl. No.: 18/094,884	**Filed:** January 9, 2023
Examiner: Christian D. Knauss	**Art Unit:** 3792
Title: DEVICES AND METHODS FOR TREATING SKIN	

OFFICE ACTION RESPONSE

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

Dear Commissioner:

This response is being submitted in the above-captioned application following the Office Action dated October 11, 2023 (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 11 of this paper.

Remarks begin on page 12 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 system for treating skin, the system comprising:

a console configured to receive a first container and at least one additional container;

a handpiece configured to contact skin tissue of a subject; and

a block in the console, wherein the block is:

configured to selectively receive fluid from the first container when the first container is connected to the console;

configured to selectively receive fluid from the at least one additional container when the at least one additional container is connected to the console; and,

configured to selectively be in fluid communication with the handpiece through a first conduit when the handpiece is connected to the console;

a vacuum source, wherein the console comprises the vacuum source; and

wherein the handpiece is configured to be in fluid communication with the vacuum source through a second conduit when the handpiece is connected to the console[[.]];

wherein when the handpiece, the first container, the at least one additional container and a waste container are each connected to the console, the first container contains a first treatment fluid, and the at least one additional container contains an additional treatment fluid,

the handpiece is in fluid communication with the vacuum source and the waste container through the second conduit; and

the system is configured to deliver the first treatment fluid contained in the first container and the additional treatment fluid contained in the at least one additional container to the handpiece sequentially.

3. *(Canceled)*

4. *(Canceled)*

5. *(Canceled)*

6. *(Previously Presented)* The system of Claim 2, wherein the at least one additional container comprises a second container and a third container such that the console is configured to receive at least three containers.

7. *(Previously Presented)* The system of Claim 6,

wherein when the handpiece is connected to the console and the first container, the second container and the third container each contains fluid and is connected to the console, the system is configured to deliver to the handpiece one at a time fluid contained in the first container, fluid contained in the second container, and fluid contained in the third container.

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

9. *(Previously Presented)* The system of Claim 8, further comprising a user input device to select a flow of fluids from the first container and the at least one additional container to the handpiece.

10. *(Previously Presented)* The system of Claim 9, wherein the user input device comprises a touch screen.

11. *(Previously Presented)* The system of Claim 10, further comprising a display.

12. *(Currently Amended)* The system of Claim 2, wherein the block is configured to control a flow of the [[a]]first treatment fluid contained in the first container and the ~~an~~ additional treatment fluid contained in the at least one additional container into the block with a valve when the first container and the at least one additional container are connected to the console.

13. *(Currently Amended)* The system of Claim 2, wherein the system is configured to control a flow of the [[a]]first treatment fluid contained in the first container to the handpiece through the block when each of the first container and the handpiece is connected to the console.

14. *(Previously Presented)* The system of Claim 13, wherein the system is configured to separately control a flow of a second treatment fluid contained in the at least one additional container to the handpiece through the block when each of the first container, the at least one additional container, and the handpiece are connected to the console.

15. *(Currently Amended)* A skin treatment apparatus comprising:

a console that includes a fluid control member that is configured to be in fluid communication with at least a first container and a second container when the first container and the second container are connected to the fluid control member;

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

a waste conduit configured to be in fluid communication with the handpiece assembly and a vacuum source to move waste away from the handpiece assembly when the waste conduit and the handpiece assembly are each ~~is~~ connected to the console; and

wherein when each of the first container and the second container are connected to the console, the fluid control member is configured to be in fluid communication with each of the first container and the second container;

wherein when the handpiece assembly is connected to the console, the fluid control member is configured to be in fluid communication with the handpiece assembly;

wherein when (i) each of the first container and the second container contains treatment material, (ii) the first container and the second container are connected to the console, and (iii) the handpiece assembly is connected to the console, the skin treatment apparatus is configured to selectively draw treatment material from the first container or the second container to the handpiece assembly using, at least in part, a vacuum created along a distal end of the handpiece assembly by the vacuum source.

16. *(Previously Presented)* The skin treatment apparatus of Claim 15, wherein treatment material from the first container and the second container are configured to be drawn to the handpiece assembly sequentially.

17. *(Previously Presented)* The skin treatment apparatus of Claim 15, wherein treatment material from the first container and the second container are configured to be drawn the handpiece assembly simultaneously.

18. *(Previously Presented)* The skin treatment apparatus of Claim 15, wherein the console comprises the vacuum source.

19. *(Previously Presented)* The skin treatment apparatus of Claim 15, wherein the skin treatment apparatus is configured to deliver a single treatment material from the first container to a patient's skin.

20. *(Previously Presented)* The skin treatment apparatus of Claim 15, wherein the treatment material in the first container is a skin treatment fluid.

21. *(Previously Presented)* The skin treatment apparatus of Claim 15, further comprising a computing device configured to control at least one function of the skin treatment apparatus.

22. *(Previously Presented)* The skin treatment apparatus of Claim 21, further comprising a user input device to facilitate control of a flow of treatment materials from at least one of the first container and the second container to the handpiece assembly.

23. *(Previously Presented)* The skin treatment apparatus of Claim 22, wherein the user input device comprises a touch screen.

24. *(Previously Presented)* The skin treatment apparatus of Claim 23, further comprising a display.

25. *(Previously Presented)* The skin treatment apparatus of Claim 15, wherein the fluid control member includes a first switch corresponding to the first container and a second switch corresponding to the second container, the first switch and the second switch configured to permit or prevent flow from the first container and the second container to independently control flow from each of the first container and the second container.

26. *(Currently Amended)* A system for treating skin, the system comprising:

a console configured to receive a first container and at least one additional container;

a collection lumen configured to be in fluid communication with the first container and the at least one additional container when the first container and the at least one additional container are connected to the console; and

a handpiece having a working end, the working end of the handpiece being configured to contact skin tissue of a subject during use;

wherein the working end of the handpiece is configured to be placed in fluid communication with a vacuum source to create a suction force along a distal end of the handpiece when the vacuum source is activated and the handpiece is connected to the console and wherein the working end of the handpiece is configured to be placed in fluid communication with the first container or the at least one additional container through the collection lumen[[.]]; and

a supply conduit that places the collection lumen in fluid communication with the working end of the handpiece when the handpiece is connected to the console;

wherein each of the first container and the at least one additional container includes treatment materials, and wherein treatment materials from the first container and the at least one additional container are configured to be delivered to the supply conduit sequentially when the first container and the at least one additional container are connected to the console.

27. *(Currently Amended)* The system of Claim 26,

wherein the console comprises the vacuum source;

wherein the handpiece is in fluid communication with the vacuum source and a waste container through a waste conduit when the handpiece ~~is~~ and the waste container are connected to the console; and

wherein the system is configured to deliver a first treatment fluid contained in the first container and an additional treatment fluid contained in the at least one additional container to the handpiece sequentially or simultaneously when the first container and the at least one additional container are connected to the console.

28. *(Canceled)*

29. *(Canceled)*

30. *(Previously Presented)* The system of Claim 26, further comprising a computing device configured to control at least one function of the system.

31. *(Currently Amended)* The system of Claim 30, further comprising a user input device to facilitate control of a flow of fluids from the first container and the at least one additional container to the handpiece.

32. *(New)* A system for treating skin, the system comprising:

a console configured to receive a first container and at least one additional container;

a handpiece configured to contact skin tissue of a subject; and

a block in the console, wherein the block is:

configured to selectively receive fluid from the first container when the first container is connected to the console;

configured to selectively receive fluid from the at least one additional container when the at least one additional container is connected to the console; and,

configured to selectively be in fluid communication with the handpiece through a first conduit when the handpiece is connected to the console; and

a vacuum source;

wherein the handpiece is configured to be in fluid communication with the vacuum source through a second conduit when the handpiece is connected to the console;

wherein the at least one additional container comprises a second container and a third container such that the console is configured to receive at least three containers; and

wherein when the handpiece is connected to the console and the first container, the second container and the third container each contains fluid and is connected to the console, the system is configured to deliver to the handpiece one at a time fluid contained in the first container, fluid contained in the second container, and fluid contained in the third container.

33. *(New)* The system of Claim 32, wherein the system is configured to combine in the block a first treatment fluid contained in the first container and an additional treatment fluid contained in the at least one additional container to create a mixture of treatment fluid.

34. *(New)* The system of Claim 32,

wherein the console comprises the vacuum source; and

wherein the handpiece is in fluid communication with the vacuum source and a waste container through the second conduit when the handpiece is connected to the console.

35. *(New)* The system of Claim 32, wherein the system is configured to deliver a first treatment fluid contained in the first container and an additional treatment fluid contained in the at least one additional container to the handpiece sequentially when the handpiece is connected to the console.

36. *(New)* The system of Claim 32, further comprising a computing device configured to control at least one function of the system.

37. *(New)* The system of Claim 36, further comprising a user input device to select a flow of fluids from the first container and the at least one additional container to the handpiece.

38. *(New)* The system of Claim 37, wherein the user input device comprises a touch screen.

39. *(New)* The system of Claim 38, further comprising a display.

40. *(New)* The system of Claim 32, wherein the block is configured to control a flow of a first treatment fluid contained in the first container and an additional treatment fluid contained in the at least one additional container into the block with a valve when the first container and the at least one additional container are connected to the console.

41. *(New)* The system of Claim 32, wherein the system is configured to control a flow of a first treatment fluid contained in the first container to the handpiece through the block when each of the first container and the handpiece is connected to the console.

42. *(New)* The system of Claim 41, wherein the system is configured to separately control a flow of a second treatment fluid contained in the at least one additional container to the handpiece through the block when each of the first container, the at least one additional container, and the handpiece are connected to the console.

43. *(New)* A system for treating skin, the system comprising:

a console configured to receive a first container and at least one additional container;

a handpiece configured to contact skin tissue of a subject; and

a block in the console, wherein the block is:

configured to selectively receive fluid from the first container when the first container is connected to the console;

configured to selectively receive fluid from the at least one additional container when the at least one additional container is connected to the console; and,

configured to selectively be in fluid communication with the handpiece through a first conduit when the handpiece is connected to the console; and

a vacuum source;

wherein the handpiece is configured to be in fluid communication with the vacuum source through a second conduit when the handpiece is connected to the console;

wherein the system is configured to control a flow of a first treatment fluid contained in the first container to the handpiece through the block when each of the first container and the handpiece is connected to the console; and

wherein the system is configured to separately control a flow of a second treatment fluid contained in the at least one additional container to the handpiece through the block when each of the first container, the at least one additional container, and the handpiece are connected to the console.

44. *(New)* The system of Claim 43, wherein the system is configured to combine in the block the first treatment fluid contained in the first container and the second treatment fluid contained in the at least one additional container to create a mixture of treatment fluid.

45. *(New)* The system of Claim 43,

wherein the console comprises the vacuum source; and

wherein the handpiece is in fluid communication with the vacuum source and a waste container through the second conduit when the handpiece is connected to the console.

46. *(New)* The system of Claim 43, wherein the system is configured to deliver the first treatment fluid contained in the first container and the second treatment fluid contained in the at least one additional container to the handpiece sequentially when the handpiece is connected to the console.

47. *(New)* The system of Claim 43, further comprising a computing device configured to control at least one function of the system.

48. *(New)* The system of Claim 47, further comprising a user input device to select a flow of fluids from the first container and the at least one additional container to the handpiece.

49. *(New)* The system of Claim 48, wherein the user input device comprises a touch screen.

50. *(New)* The system of Claim 49, further comprising a display.

51. *(New)* The system of Claim 43, wherein the block is configured to control the flow of the first treatment fluid contained in the first container and the second treatment fluid contained in the at least one additional container into the block with a valve when the first container and the at least one additional container are connected to the console.

52. *(New)* The system of Claim 43, wherein the system is configured to control the flow of the first treatment fluid contained in the first container to the handpiece through the block when each of the first container and the handpiece is connected to the console.

53. *(New)* The system of Claim 52, wherein the system is configured to separately control the flow of the second treatment fluid contained in the at least one additional container to the handpiece through the block when each of the first container, the at least one additional container, and the handpiece are connected to the console.

Application No.: **18/094,884**
Filing Date: **January 9, 2023**

SUMMARY OF INTERVIEW

Applicant thanks Examiner Knauss for the time and the courtesy extended during the Interview of September 21, 2023 (the "Interview").

Attendees, Date and Type of Interview

The Interview was conducted telephonically on September 21, 2023 and was attended by Examiner Christian D. Knauss and Applicant's attorney, Theodore Papagiannis.

Identification of Claims Discussed

The pending claims, including independent Claim 2.

Identification of Art Discussed

None.

Proposed Amendments, Principal Arguments, Other Matters and Results of Interview

Examiner Knauss and attorney for Applicant discussed the pending claims, generally. In view of Applicant's desire to expedite the prosecution and allowance of the present application and in light of the larger family of which the present application is a part, possible obviousness-type double patenting issues likely to be raised by the Examiner were discussed.

REMARKS

The foregoing amendments and the following remarks are responsive to the Office Action. Claims 2 to 31 are pending in this application. As reflected in the foregoing listing of claims, to advance prosecution of the present application and to expedite allowance of the present application, Applicant is incorporating certain amendments herein to independent Claims 2 and 26, as well as to dependent Claims 5, 12 and 13. Further, Claims 3, 4, 5, 28 and 29 are canceled without prejudice, and new Claims 32 to 53 are added herein. The amendments presented herein should not be deemed as an acquiescence of the Applicant to any of the rejections or other conclusions included in the Office Action. 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. In fact, Applicant notes that it is filing a new continuation from the present application with claims that were previously pending in this application on the same day as this response, as Applicant believes that such claims are novel, non-obvious and otherwise patentable without the need for any amendments.

Double Patenting Rejections

According to the Office Action, Claims 15 to 18 stand rejected on the ground of nonstatutory double patenting over certain claims of U.S. Patent No. 9,550,052. Further, Claims 15 to 19 stand rejected on the ground of nonstatutory double patenting over certain claims of U.S. Patent No. 11,446,477. Applicant respectfully disagrees and traverses these rejections. However, in the interest of placing the present application in condition of allowance, Applicant is submitting concurrently with the filing of this response a Terminal Disclaimer with respect to U.S. Patent Nos. 9,550,052 and 11,446,477. By filing the Terminal Disclaimer, Applicant does not acquiesce to any characterization or scope of the pending claims vis-à-vis U.S. Patent Nos. 9,550,052 and/or 11,446,477, or vice versa.

Allowable Subject Matter/Overview of Claim Amendments Presented Herein

According to the Office Action, Claims 3, 7, 14 and 29 are objected to as being dependent upon a rejected based claim, but would be allowable if rewritten in independent form. The Office Action also indicates that Claims 15 to 25 are allowable pending resolution of the double patenting

rejections provided in the Office Action. Applicant appreciates the conclusion in Office Action regarding the allowable nature of certain claims. As noted above, Applicant submits that all the claims evaluated in the Office Action are novel, non-obvious and otherwise patentable. However, in order to expedite the receipt of a Notice of Allowance for this application, Applicant is making certain amendments herein. Namely, as reflected in the foregoing listing of claims, language from allowable Claim 3 is being incorporated into independent Claim 2; further, language from allowable Claim 29 (including the language of Claim 28 from which Claim 29 depends) is being incorporated into independent Claim 26. Additional amendments are incorporated to certain claims, including the independent claims. In view of these amendments, Claims 3, 28 and 29 are canceled without prejudice herein.

Further, in view of the allowable subject matter determination in the Office Action, Applicant is presenting claims of identical or similar scope to Claims 7 and 14 as new Claims 32 and 43, respectively, herein. Once again, Applicant submits that the amendments presented herein are being made to expedite the allowance of the present application and not as an acquiescence or agreement regarding any of the rejections presented in the Office Action.

In response to the Examiner's statement of reasons for the indication of allowable submit matter provided in the "Allowable Subject Matter" section, 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 for example and without limitation, U.S. Publ. No. 2001/0049511 to Coleman et al. Further, 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.

Claim Rejections under 35 U.S.C. §§102 & 103

According to the Office Action, Claims 2, 4 to 6, 12, 13 and 26 to 28 stand rejected under 35 U.S.C. §102 as being anticipated by U.S. Publ. No. 2001/0049511 to Coleman et al. ("Coleman"). Further, Claims 8, 9, 30, and 31 stand rejected under 35 U.S.C. §103 as being unpatentable over Coleman in view of U.S. Pat. No. 6,162,232 to Shadduck et al. ("Shadduck"). Finally, Claims 10 and 11 stand rejected under 35 U.S.C. §103 as being unpatentable over Coleman in view of Shadduck and U.S. Publ. No. 2003/0018252 to Duchon et al.

Applicant respectfully disagrees with and traverses the anticipation and obviousness rejections presented in the Office Action. However, as noted above, in order to expedite the mailing of a Notice of Allowance for the present application, and without acquiescing to any of the rejections presented in the Office Action, Applicant is incorporating certain clarifying claim amendments herein (e.g., to take advantage of the conclusion regarding the allowability of certain claims in the Office Action).

New Claims

As noted above and reflected in the foregoing listing of claims, new Claims 32 to 53 are added herein. No new subject matter is added by these new claims.

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 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.	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
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 (Pat. No. 11,446,477)	July 19, 2019	DEVICES AND METHODS FOR TREATING SKIN
EDGE.005C8	17/165,820 (Pat. No. 11,547,840)	Feb. 2, 2021	DEVICES AND METHODS FOR TREATING SKIN
EDGE.005C9	17/165,807 (Pat. No. 11,612,726)	Feb. 2, 2021	DEVICES AND METHODS FOR TREATING SKIN
EDGE.005C10	**18/094,884** ***(present application)***	**Jan. 9, 2023**	**DEVICES AND METHODS FOR TREATING SKIN**
EDGE.005C11	unknown	Oct. 16, 2023	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

Attorney Docket No.	Appl. No. (Pat. No., if appl.)	Filing Date	Title
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.044C3	17/952,569	Sep. 26, 2022	DEVICES, SYSTEMS, AND METHODS FOR TREATING THE SKIN
EDGE.044C4	17/952,665	Sep. 26, 2022	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
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.077C3	17/952,721	Sep. 26, 2022	DEVICES, SYSTEMS, AND METHODS FOR TREATING THE SKIN
EDGE.077C4	17/952,676	Sep. 26, 2022	DEVICES, SYSTEMS, AND METHODS FOR TREATING THE SKIN

Attorney Docket No.	Appl. No. (Pat. No., if appl.)	Filing Date	Title
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 (Pat. No. 11,517,350)	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.131NP	18/035,723	May 5, 2023	DEVICES, SYSTEMS AND METHODS FOR TREATING THE SKIN
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
EDGE.180DA	29/811,070	Oct. 11, 2021	SKIN TREATMENT TIP
EDGE.205DA	29/,826,153	Feb. 9, 2022	DUAL TREATING DEVICE FOR TREATING ACNE OR WRINKLES
EDGE.205DC1	29/854,067	Sep. 21, 2022	TREATMENT DEVICE FOR SKIN
EDGE.212DA	29/884,441	Feb. 10, 2023	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

Applicant has made a good faith effort to place the application in condition for allowance. Nevertheless, if any issues remain and/or if clarification is required, 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: October 16, 2023

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

58401830

UNITED STATES
PATENT AND TRADEMARK OFFICE

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ELECTRONIC PAYMENT RECEIPT

APPLICATION #	RECEIPT DATE / TIME	ATTORNEY DOCKET #
18/094,884	**10/16/2023 09:11:18 PM ET**	**EDGE.005C10**

Title of Invention

DEVICES AND METHODS FOR TREATING SKIN

Application Information

APPLICATION TYPE	Utility - Nonprovisional Application under 35 USC 111(a)	PATENT #	-
CONFIRMATION #	9223	FILED BY	Will Nguyen
PATENT CENTER #	63008642	AUTHORIZED BY	Theodore Papagiannis
CUSTOMER #	20995	FILING DATE	01/09/2023
CORRESPONDENCE ADDRESS	-	FIRST NAMED INVENTOR	Roger Ignon

Payment Information

PAYMENT METHOD	PAYMENT TRANSACTION ID	PAYMENT AUTHORIZED BY
CARD / 1990	E20230FL14126906	Jennifer Neat

PRE-AUTHORIZED ACCOUNT	PRE-AUTHORIZED CATEGORY
111410	37 CFR 1.16 (National application filing, search, and examination fees); 37 CFR 1.17 (Patent application and reexamination processing fees)

FEE CODE	DESCRIPTION	ITEM PRICE($)	QUANTITY	ITEM TOTAL($)
1202	EACH CLAIM IN EXCESS OF 20	100.00	17	1700.00
1201	EACH INDEPENDENT CLAIM IN EXCESS OF THREE	480.00	2	960.00
			TOTAL AMOUNT:	**$2,660.00**

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 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.

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ELECTRONIC ACKNOWLEDGEMENT RECEIPT

APPLICATION #	RECEIPT DATE / TIME	ATTORNEY DOCKET #
18/094,884	**10/12/2023 08:46:02 PM ET**	**EDGE.005C10**

Title of Invention

DEVICES AND METHODS FOR TREATING SKIN

Application Information

APPLICATION TYPE	Utility - Nonprovisional Application under 35 USC 111(a)	PATENT #	-
CONFIRMATION #	9223	FILED BY	Mireya Ovando
PATENT CENTER #	62987736	FILING DATE	01/09/2023
CUSTOMER #	20995	FIRST NAMED INVENTOR	Roger Ignon
CORRESPONDENCE ADDRESS	-	AUTHORIZED BY	Theodore Papagiannis

Documents

TOTAL DOCUMENTS: 1

DOCUMENT	PAGES	DESCRIPTION	SIZE (KB)
POA-005C10.pdf	2	Power of Attorney	1046 KB

Digest

DOCUMENT	MESSAGE DIGEST(SHA-512)
POA-005C10.pdf	238F83804209F993F0AAE90070C94373C0685B397AAEB690E74F26929B9DC4B44EEC9A9F0C8E971E80C39B614C8F10FE9631817F58324356CA0B95C2AE509C3B

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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)
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Application Number	18/094884
Filing Date	January 9, 2023
First Named Inventor	Roger Ignon
Title	DEVICES AND METHODS FOR TREATING SKIN
Art Unit	3771
Examiner Name	Christian D Knauss
Attorney Docket Number	EDGE.005C10

SIGNATURE of Applicant or Patent Practitioner

Signature	/Theodore G. Papagiannis/	Date (Optional)	
Name	Theodore Papagiannis	Registration Number	61546
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.

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

Doc Code: PA..
Document Description: Power of Attorney

PTO/AIA/82B (07-13)
Approved for use through 03/31/2021. OMB 0651-0035
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE
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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):

HydraFacial 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	/PB/	Date (Optional)	10/06/2021
Name	Paul Bokota		
Title	Vice President & General Counsel		

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.**

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
18/094,884	01/09/2023	Roger Ignon	EDGE.005C10	9223

20995 7590 10/11/2023

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
10/11/2023	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):

cassie.wolf@knobbe.com
efiling@knobbe.com

Office Action Summary	Application No. 18/094,884	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 12 July 2023.

☐ 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) 2,4-6,8-13,15-28 and 30-31 is/are rejected.

8) ☑ Claim(s) 3,7,14 and 29 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 09 January 2023 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 20231004.

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.

Information Disclosure Statement

2. The information disclosure statements (IDS) submitted on 8/28/23 and 9/29/23 are in compliance with the provisions of 37 CFR 1.97. Accordingly, the information disclosure statements are being considered by the examiner.

Double Patenting

3. 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 filing of a terminal disclaimer by itself is not a complete reply to a nonstatutory double patenting (NSDP) rejection. A complete reply requires that the terminal disclaimer be accompanied by a reply requesting reconsideration of the prior Office action. Even where the NSDP rejection is provisional the reply must be complete. See MPEP § 804, subsection I.B.1. For a reply to a non-final Office action, see 37 CFR 1.111(a). For a reply to final Office action, see 37 CFR 1.113(c). A request for reconsideration while not provided for in 37 CFR 1.113(c) may be filed after final for consideration. See MPEP §§ 706.07(e) and 714.13.

The USPTO Internet website contains terminal disclaimer forms which may be used. Please visit www.uspto.gov/patent/patents-forms. The actual 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/apply/applying-online/eterminal-disclaimer.

4. Claims 15-18 are rejected on the ground of nonstatutory double patenting as being unpatentable over claims 1 and 6 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 15, US 9,550,052 B2 discloses a skin treatment apparatus comprising: a console that includes a fluid control member that is configured to be in fluid communication with at least a first container and a second container when the first container and the second container are connected to the fluid control member (claim 1); a handpiece assembly configured to contact a skin surface of a subject (claim 1); a waste conduit configured to be in fluid communication with the handpiece assembly and a vacuum source to move waste away from the handpiece assembly when the handpiece assembly is connected to the console (claim 1); and wherein when each of the first container and the second container are connected to the console, the fluid control member is configured to be in fluid communication with each of the first container and the second container (claim 1); wherein when the handpiece assembly is connected to the console, the fluid control member is configured to be in fluid communication with the handpiece assembly; wherein when (i) each of the first container and the second container contains treatment material, (ii) the first container and the second container are connected to the console, and (iii) the handpiece assembly is connected to the console, the skin treatment apparatus is configured to

selectively draw treatment material from the first container or the second container to the handpiece assembly using, at least in part, a vacuum created along a distal end of the handpiece assembly by the vacuum source (claim 1).

Regarding claim 16, US 9,550,052 B2 discloses that treatment material from the first container and the second container are configured to be drawn to the handpiece assembly sequentially (claim 6).

Regarding claim 17, US 9,550,052 B2 discloses that treatment material from the first container and the second container are configured to be drawn the handpiece assembly simultaneously (claim 6).

Regarding claim 18, US 9,550,052 B2 discloses that the console comprises the vacuum source (claim 1).

5. Claims 15-19 are rejected on the ground of nonstatutory double patenting as being unpatentable over claims 1, 2, and 8 of U.S. Patent No. 11,446,477 B2. Although the claims at issue are not identical, they are not patentably distinct from each other because:

Regarding claim 15, US 11,446,477 B2 discloses a skin treatment apparatus comprising: a console that includes a fluid control member that is configured to be in fluid communication with at least a first container and a second container when the first container and the second container are connected to the fluid control member (claim 1); a handpiece assembly configured to contact a skin surface of a subject (claim 1); a waste conduit configured to be in fluid communication with the handpiece assembly and a vacuum source to move waste away from the handpiece assembly when the

handpiece assembly is connected to the console (claim 1); and wherein when each of the first container and the second container are connected to the console, the fluid control member is configured to be in fluid communication with each of the first container and the second container (claim 1); wherein when the handpiece assembly is connected to the console, the fluid control member is configured to be in fluid communication with the handpiece assembly; wherein when (i) each of the first container and the second container contains treatment material, (ii) the first container and the second container are connected to the console, and (iii) the handpiece assembly is connected to the console, the skin treatment apparatus is configured to selectively draw treatment material from the first container or the second container to the handpiece assembly using, at least in part, a vacuum created along a distal end of the handpiece assembly by the vacuum source (claim 1).

Regarding claim 16, US 11,446,477 B2 discloses that treatment material from the first container and the second container are configured to be drawn to the handpiece assembly sequentially (claim 8).

Regarding claim 17, US 11,446,477 B2 discloses that treatment material from the first container and the second container are configured to be drawn the handpiece assembly simultaneously (claim 8).

Regarding claim 18, US 11,446,477 B2 discloses that the console comprises the vacuum source (claim 1).

Regarding claim 19, US 11,446,477 B2 discloses a computing device configured to control at least one function of the skin treatment apparatus (claim 2).

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, 4-6, 12, 13, and 26-28 are rejected under pre-AIA 35 U.S.C. 102(b) as being anticipated by Coleman et al. (US 2001/0049511 A1).

Regarding claim 2, Coleman discloses (Figures 5A-6) a system for treating skin, the system comprising: a console (Figure 6) configured to receive a first container (60C) and at least one additional container (60B); a handpiece (50) configured to contact skin tissue of a subject; a block in the console, wherein the block is: configured to selectively receive fluid from the first container when the first container is connected to the console (paragraph 0058); configured to selectively receive fluid from the at least one additional container when the at least one additional container is connected to the console (paragraph 0058); and, configured to selectively be in fluid communication with the handpiece through a first conduit (51A) when the handpiece is connected to the console; a vacuum source (65A); and wherein the handpiece is configured to be in fluid communication with the vacuum source through a second conduit (51B) when the handpiece (50) is connected to the console (paragraph 0061).

Regarding claim 4, Coleman discloses (Figures 5A-6) that the system is configured to combine in the block a first treatment fluid contained in the first container

and an additional treatment fluid contained in the at least one additional container to create a mixture of treatment fluid (paragraphs 0058-0060).

Regarding claim 5, Coleman discloses (Figures 5A-6) that the console comprises the vacuum source (65A); wherein the handpiece (50) is in fluid communication with the vacuum source and a waste container (61B) through the second conduit (51B); and wherein the system is configured to deliver the mixture of treatment fluid to the handpiece sequentially (paragraph 0060).

Regarding claim 6, Coleman discloses (Figure 6) that the at least one additional container comprises a second container (60B) and a third container (60A) such that the console is configured to receive at least three containers.

Regarding claim 12, Coleman discloses (Figure 6) that the block is configured to control a flow of a first treatment fluid contained in the first container (60C) and an additional treatment fluid contained in the at least one additional container (60B) into the block with a valve (62D) when the first container and the at least one additional container are connected to the console (paragraphs 0059-0060).

Regarding claim 13, Coleman discloses that the system is configured to control a flow of a first treatment fluid contained in the first container (60C) to the handpiece (50) through the block when each of the first container and the handpiece is connected to the console (paragraph 0059).

Regarding claim 26, Coleman discloses (Figures 5A-6) a system for treating skin, the system comprising: a console (Figure 6) configured to receive a first container (60C) and at least one additional container (60B); a collection lumen (manifold within the console, see Figure 6) configured to be in fluid communication with the first container

and the at least one additional container when the first container and the at least one additional container are connected to the console; and a handpiece (50) having a working end, the working end of the handpiece being configured to contact skin tissue of a subject during use; wherein the working end of the handpiece is configured to be placed in fluid communication with a vacuum source (65A) to create a suction force along a distal end of the handpiece when the vacuum source is activated and the handpiece is connected to the console and wherein the working end of the handpiece is configured to be placed in fluid communication with the first container or the at least one additional container through the collection lumen (via supply conduit 51A).

Regarding claim 27, Coleman discloses (Figure 6) that the console comprises the vacuum source (65A); wherein the handpiece (50) is in fluid communication with the vacuum source and a waste container (61B) through a waste conduit (51B) when the handpiece is connected to the console; and wherein the system is configured to deliver a first treatment fluid contained in the first container (60C) and an additional treatment fluid contained in the at least one additional container (60B) to the handpiece sequentially or simultaneously (paragraphs 0058-0060).

Regarding claim 28, Coleman discloses (Figure 6) a supply conduit (51A) that places the collection lumen in fluid communication with the working end of the handpiece (paragraph 0059).

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 negated by the manner in which the invention was made.

9. Claims 8, 9, 30, and 31 are rejected under pre-AIA 35 U.S.C. 103(a) as being unpatentable over Coleman et al. (US 2001/0049511 A1) in view of Shadduck (US 6,162,232).

Regarding claim 8, Coleman discloses the invention substantially as claimed. However, Coleman fails to disclose a computing device configured to control at least one function of the system.

In the same field of endeavor, Shadduck teaches (Figures 2A and 2B) a system for treating skin that comprises a computing device (25) configured to control and modulate the introduction and termination fluid flows into the working end, 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 at the time the invention was made to modify the system disclosed by Coleman to comprise a computing device configured to control and modulate the introduction and termination fluid flows into the working end, 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).

Regarding claim 9, Coleman as modified by Shadduck teaches (Coleman, Figures 5A and 5B) a user input device (59A, 59B) to select a flow of fluids from the first

container and the at least one additional container to the handpiece (Coleman, paragraphs 0052 and 0063).

Regarding claim 30, Coleman discloses the invention substantially as claimed. However, Coleman fails to disclose a computing device configured to control at least one function of the system.

In the same field of endeavor, Shadduck teaches (Figures 2A and 2B) a system for treating skin that comprises a computing device (25) configured to control and modulate the introduction and termination fluid flows into the working end, 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 at the time the invention was made to modify the system disclosed by Coleman to comprise a computing device configured to control and modulate the introduction and termination fluid flows into the working end, 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).

Regarding claim 31, Coleman as modified by Shadduck teaches (Coleman, Figures 5A and 5B) a user input device (59A, 59B) to select a flow of fluids from the first container and the at least one additional container to the handpiece (Coleman, paragraphs 0052 and 0063).

10. Claims 10 and 11 are rejected under pre-AIA 35 U.S.C. 103(a) as being unpatentable over Coleman et al. (US 2001/0049511 A1) in view of Shadduck (US

6,162,232) as applied to claim 9 above, and further in view of Duchon et al. (US 2003/0018252 A1) ("Duchon").

Regarding claims 10 and 11, Coleman as modified by Shadduck above teaches the invention substantially as claimed. However, the combined teaching fails to teach the system comprising a display and 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 display (433) and 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 display and 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).

Allowable Subject Matter

11. Claims 3, 7, 14, and 29 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

12. The following is a statement of reasons for the indication of allowable subject matter: Claim 3 requires that the console comprises the vacuum source; wherein the

handpiece is in fluid communication with the vacuum source and a waste container through the second conduit; and wherein the system is configured to deliver a first treatment fluid contained in the first container and an additional treatment fluid contained in the at least one additional container to the handpiece sequentially. Coleman discloses (Figure 6) that the console comprises the vacuum source and the handpiece (50) is in fluid communication with the vacuum source and a waste container through the second conduit (51B). However, Coleman fails to disclose or suggest that the system is configured to deliver a first treatment fluid contained in the first container and an additional treatment fluid contained in the at least one additional container to the handpiece sequentially. This limitation, in combination with the other limitations in the claim and the limitations of claim 2, is not disclosed or suggested in the prior art of record. It would not be obvious to modify Coleman to function as claimed because Coleman discloses that the treatment materials are delivered together/mixed during the procedure to provide treatment to the skin. Sequential delivery of the treatment materials from containers disclosed by Coleman would not provide the intended effect. For example, delivery of fluid from container 60C disclosed by Coleman would only provide sterile water to the skin and abrasion would not occur. Coleman also discloses that the sterile water is necessary to delivery the abrasive material to the skin, so it would not be possible to sequentially deliver the water and then the abrasive material.

Claim 7 requires that when the handpiece is connected to the console and the first container, the second container and the third container each contains fluid and is connected to the console, the system is configured to deliver to the handpiece one at a time fluid contained in the first container, fluid contained in the second container, and

fluid contained in the third container. These limitations, in combination with the limitations of intervening claim 6 and independent claim 2, are not disclosed or suggest in the prior art of record. First, Coleman fails to disclose that all three containers contain fluid. Container 60A of Coleman contains abrasive material. Modifying all three containers of Coleman to comprise abrasive material would destroy the intended function of Coleman, which is abrading skin. Second, as stated above regarding claim 3, Coleman fails to disclose or suggest that the system is configured to deliver to the handpiece one at a time fluid contained in the first container, fluid contained in the second container, and fluid contained in the third container.

Claim 14 requires that the system is configured to separately control a flow of a second treatment fluid contained in the at least one additional container to the handpiece through the block when each of the first container, the at least one additional container, and the handpiece are connected to the console. These limitations, in combination with the limitations of intervening claim 13 and independent claim 2, are not disclosed or suggest in the prior art of record. As stated above regarding claims 3 and 7, Coleman fails to disclose or suggest that the system is configured to separately control a flow of a second treatment fluid contained in the at least one additional container to the handpiece through the block when each of the first container, the at least one additional container, and the handpiece are connected to the console.

Claim 29 recites that the first container and the at least one additional container include treatment materials and the treatment materials from the first container and the at least one additional container are configured to be delivered to the supply conduit sequentially. These limitations, in combination with the limitations of intervening claim

28 and independent claim 26, are not disclosed or suggest in the prior art of record. As stated above regarding claims 3, 7, and 14, Coleman fails to disclose that the treatment materials from the first container and the at least one additional container are configured to be delivered to the supply conduit sequentially.

13. Claims 15-25 are allowable over the prior art of record, pending the Double Patenting rejections above are overcome.

14. The following is a statement of reasons for the indication of allowable subject matter: Claim 15 requires a skin treatment apparatus, comprising, inter alia: a console, a first container containing treatment material, a second container containing treatment material, a handpiece assembly, and a waste conduit. Claim 15 further requires that the skin treatment apparatus is configured to selectively draw treatment material from the first container or the second container to the handpiece assembly using, at least in part, a vacuum created along a distal end of the handpiece assembly by the vacuum source. The prior art of record fails to disclose or suggest a skin treatment apparatus with a vacuum source that provides this function. Coleman 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 fails to disclose a vacuum source that carries out of the function of selectively drawing material from the first container or the second container to the handpiece.

Claims 16-25 are all dependent on claim 15, thus would also be allowable pending the Double Patenting rejections are overcome.

Conclusion

15. 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

Applicant-Initiated Interview Summary	**Application No.** 18/094,884	**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: 21 September 2023

Issues Discussed:

Other

The Applicant's representative contacted the Examiner to discuss the claims in the instant application. The Applicant's representative also notified the Examiner about US 9,550,052 B2 and US 11,446,477 B2 , which are commonly owned patents in the same family as the instant application.

/CHRISTIAN D KNAUSS/ 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.

Notice of References Cited	Application/Control No. 18/094,884	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	A61M35/003	1/1
*	B	US-11446477-B2	09-2022	Ignon; Roger	A61B17/54	1/1
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	F					
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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
	18/094,884	Ignon et al.
	Examiner	Art Unit
	CHRISTIAN D KNAUSS	3771

CPC - Searched*		
Symbol	**Date**	**Examiner**
A61B17/3205, 54, 545	10/04/2023	CDK
A61B2017/00199, 00761, 320004	10/04/2023	CDK
A61M1/774	10/04/2023	CDK
A61B2217/005, 007	10/04/2023	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	10/04/2023	CDK
Reviewed parent applications	10/04/2023	CDK
Performed SEARCH	10/04/2023	CDK
Performed backward/forward searches	10/04/2023	CDK
Performed CPC subgroup/text searches and combinations	10/04/2023	CDK
Performed Similarity and More Like This searches	10/04/2023	CDK
Consulted Ryan Severson regarding microdermabrasion search	09/06/2023	CDK

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Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	18/094,884	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	

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT	Application No.	18/094884
	Filing Date	January 9, 2023
	First Named Inventor	Ignon, Roger
	Art Unit	3771
(Multiple sheets used when necessary)	Examiner	Christian D. Knauss
SHEET 1 OF 1	Attorney Docket No.	EDGE.005C10

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	11,744,999	09-05-2023	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	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear	**T[1]**
	3	WO 2023/164572	08-31-2023	Hydrafacial 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]**

58338217

Examiner Signature	/CHRISTIAN D KNAUSS/	Date Considered	10/04/2023

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

Bibliographic Data

Application No: 18/094,884

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.
01/09/2023	604	3771	
RULE			

APPLICANTS

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William Cohen, Los Alamitos, CA, UNITED STATES

CONTINUING DATA OK /CK/

This application is a CON of 17165820 02/02/2021 PAT 11547840

17165820 is a CON of 16517268 07/19/2019 PAT 11446477

15660777 is a CON of 15660750 07/26/2017 PAT 10357641

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FOREIGN APPLICATIONS none /CK/

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STATE OR COUNTRY

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	Application No.	18/094884
	Filing Date	January 9, 2023
	First Named Inventor	Ignon, Roger
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(Multiple sheets used when necessary)	Examiner	Unassigned
SHEET 1 OF 40	Attorney Docket No.	EDGE.005C10

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Examiner Signature	Date Considered
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT	Application No.	18/094884
	Filing Date	January 9, 2023
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	Art Unit	3771
(Multiple sheets used when necessary)	Examiner	Unassigned
SHEET 2 OF 40	Attorney Docket No.	EDGE.005C10

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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.	

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	First Named Inventor	Ignon, Roger
	Art Unit	3771
(Multiple sheets used when necessary)	Examiner	Unassigned
SHEET 3 OF 40	Attorney Docket No.	EDGE.005C10

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
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*__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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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	5,562,642	10-08-1996	Smith et al.	
	89	5,562,643	10-08-1996	Johnson	
	90	5,611,687	03-18-1997	Wagner	
	91	5,612,797	03-18-1997	Clarke	
	92	5,658,583	08-19-1997	Zhang et al.	
	93	5,674,235	10-07-1997	Parisi	
	94	5,676,643	10-14-1997	Cann et al.	
	95	5,676,648	10-14-1997	Henley	
	96	5,683,971	11-04-1997	Rose et al.	
	97	5,697,920	12-16-1997	Gibbons	
	98	5,707,383	01-13-1998	Bays	
	99	5,713,785	02-03-1998	Nishio	
	100	5,735,833	04-07-1998	Olson	
	101	5,759,185	06-02-1998	Grinberg	
	102	5,762,640	06-09-1998	Kajiwara et al.	
	103	5,779,519	07-14-1998	Oliver	
	104	5,800,446	09-01-1998	Banuchi	
	105	5,807,353	09-15-1998	Schmitz	
	106	5,810,842	09-22-1998	Di Fiore at al.	
	107	5,813,416	09-29-1998	Rudolph	
	108	5,817,050	10-06-1998	Klein	
	109	5,834,510	11-10-1998	Yu et al.	
	110	5,846,215	12-08-1998	Zygmont	
	111	5,848,998	12-15-1998	Marasco, Jr.	
	112	5,857,995	01-12-1999	Thomas et al.	
	113	5,861,142	01-19-1999	Schick	
	114	5,873,881	02-23-1999	McEwen et al.	
	115	5,879,323	03-09-1999	Henley	
	116	5,882,201	03-16-1999	Salem	

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U.S. PATENT DOCUMENTS					
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	117	5,885,260	03-23-1999	Mehl, Sr. et al.	
	118	5,908,401	06-01-1999	Henley	
	119	5,919,152	07-06-1999	Zygmont	
	120	5,919,479	07-06-1999	Zhang et al.	
	121	5,954,730	09-21-1999	Bernabei	
	122	5,971,999	10-26-1999	Naldoni	
	123	5,980,555	11-09-1999	Barbut et al.	
	124	6,019,749	02-01-2000	Fields et al.	
	125	6,023,639	02-08-2000	Hakky et al.	
	126	6,024,733	02-15-2000	Eggers et al.	
	127	6,027,402	02-22-2000	Oliver	
	128	6,039,745	03-21-2000	Di Fiore et al.	
	129	6,042,552	03-28-2000	Comier	
	130	6,080,165	06-27-2000	DeJacma	
	131	6,080,166	06-27-2000	McEwen et al.	
	132	6,090,085	07-18-2000	Mehl, Sr. Et al.	
	133	6,120,512	09-19-2000	Bernabei	
	134	6,129,701	10-10-2000	Cimino	
	135	6,136,008	10-24-2000	Becker et al.	
	136	6,139,553	10-31-2000	Dotan	
	137	6,139,554	10-31-2000	Karkar et al.	
	138	6,142,155	11-07-2000	Rudolph	
	139	6,149,634	11-21-2000	Bernabei	
	140	6,159,226	12-12-2000	Kim	
	141	6,162,218	12-19-2000	Elbrecht et al.	
	142	6,162,232	12-19-2000	Shadduck	
	143	6,165,059	12-26-2000	Parkin et al.	
	144	6,176,198	01-23-2001	Kao et al.	
	145	6,183,451	02-06-2001	Mehl, Sr. et al.	

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U.S. PATENT DOCUMENTS					
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	146	6,183,483	02-06-2001	Chang	
	147	6,193,589	02-27-2001	Khalaj	
	148	6,196,982	03-06-2001	Ball	
	149	6,231,593	05-15-2001	Meserol	
	150	6,235,039	05-22-2001	Parkin et al.	
	151	6,238,275	05-29-2001	Metcalf et al.	
	152	6,241,739	06-05-2001	Waldron	
	153	6,245,347	06-12-2001	Zhang et al.	
	154	6,264,666	07-24-2001	Coleman et al.	
	155	6,277,116	08-21-2001	Utely et al.	
	156	6,277,128	08-21-2001	Muldner	
	157	6,283,978	09-04-2001	Cheski et al.	
	158	6,284,266	09-04-2001	Zhang et al.	
	159	6,299,620	10-09-2001	Shadduck	
	160	6,306,119	10-23-2001	Weber et al.	
	161	6,306,147	10-23-2001	Bernabei et al.	
	162	6,322,548	11-27-2001	Payne et al.	
	163	6,322,568	11-27-2001	Bernabei et al.	
	164	6,332,886	12-25-2001	Green et al.	
	165	6,355,054	03-12-2002	Neuberger	
	166	6,368,333	04-09-2002	Bernabei et al.	
	167	6,387,103	05-14-2002	Shadduck	
	168	6,401,289	06-11-2002	Herbert	
	169	6,409,736	06-25-2002	Bernabei	
	170	6,410,599	06-25-2002	Johnson	
	171	6,414,032	07-02-2002	Johnson	
	172	6,420,431	07-16-2002	Johnson	
	173	6,423,078	07-23-2002	Bays et al.	
	174	6,423,750	07-23-2002	Johnson	

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	175	6,432,113	08-13-2002	Parkin et al.	
	176	6,432,114	08-13-2002	Rosso	
	177	6,471,712	10-29-2002	Burres	
	178	6,477,410	11-05-2002	Henley et al.	
	179	6,482,212	11-19-2002	Bernabei et al.	
	180	6,488,646	12-03-2002	Zygmont	
	181	6,494,856	12-17-2002	Zygmont	
	182	6,500,183	12-31-2002	Waldron	
	183	6,503,256	01-07-2003	Parkin et al.	
	184	6,508,813	01-21-2003	Altshuler	
	185	6,511,486	01-28-2003	Mercier et al.	
	186	6,514,262	02-04-2003	Di Fiore et al.	
	187	6,520,931	02-18-2003	Suh	
	188	6,527,783	03-04-2003	Ignon	
	189	6,535,761	03-18-2003	Bernabei	
	190	6,537,242	03-25-2003	Palmer	
	191	6,540,757	04-01-2003	Hruska et al.	
	192	6,546,281	04-08-2003	Zhang et al.	
	193	6,562,013	05-13-2003	Marasco, Jr.	
	194	6,562,050	05-13-2003	Owen	
	195	6,564,093	05-13-2003	Ostrow et al.	
	196	6,565,535	05-20-2003	Zaias et al.	
	197	6,582,442	06-24-2003	Simon et al.	
	198	6,589,218	07-08-2003	Garcia	
	199	6,592,595	07-15-2003	Mallett et al.	
	200	6,626,445	09-30-2003	Murphy et al.	
	201	6,629,927	10-07-2003	Mesaros et al.	
	202	6,629,983	10-07-2003	Ignon	
	203	6,635,035	10-21-2003	Marasco et al.	

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	204	6,641,591	11-04-2003	Shadduck	
	205	6,645,184	11-11-2003	Zelickson et al.	
	206	6,652,888	11-25-2003	Rhoades	
	207	6,666,874	12-23-2003	Heitzmann et al.	
	208	6,673,081	01-06-2004	Tavger et al.	
	209	6,673,082	01-06-2004	Mallett et al.	
	210	6,685,853	02-03-2004	Angelopoulous et al.	
	211	6,687,537	02-03-2004	Bernabei	
	212	6,689,380	02-10-2004	Marchitto et al.	
	213	6,695,853	02-24-2004	Karasiuk	
	214	6,726,673	04-27-2004	Zhang et al.	
	215	6,735,470	05-11-2004	Henley et al.	
	216	6,743,211	06-01-2004	Prausnitz et al.	
	217	6,743,215	06-01-2004	Bernabei	
	218	6,764,493	07-20-2004	Weber et al.	
	219	6,780,426	08-24-2004	Zhang et al.	
	220	6,800,083	10-05-2004	Hiblar et al.	
	221	6,800,849	10-05-2004	Staats	
	222	6,869,611	03-22-2005	Kligman et al.	
	223	6,905,487	06-14-2005	Zimmerman	
	224	6,911,031	06-28-2005	Muldner	
	225	6,926,681	08-09-2005	Ramey et al.	
	226	6,938,805	09-06-2005	Brincat	
	227	6,942,649	09-13-2005	Ignon et al.	
	228	6,960,206	11-01-2005	Keane	
	229	6,980,448	12-27-2005	Foss et al.	
	230	7,001,355	02-21-2006	Nunomura et al.	
	231	7,004,933	02-28-2006	McDaniel	
	232	7,044,938	05-16-2006	La Bianco et al.	

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	233	7,051,907	05-30-2006	Brincat	
	234	7,052,503	05-30-2006	Bernabei	
	235	7,069,073	06-27-2006	Henley et al.	
	236	7,070,488	07-04-2006	Suissa et al.	
	237	7,083,580	08-01-2006	Bernabei	
	238	7,087,036	08-08-2006	Busby et al.	
	239	7,087,063	08-08-2006	Carson et al.	
	240	7,094,252	08-22-2006	Koop	
	241	7,115,275	10-03-2006	Clarot et al.	
	242	7,135,011	11-14-2006	Powers et al.	
	243	7,153,311	12-26-2006	Chung	
	244	7,166,086	01-23-2007	Haider et al.	
	245	7,172,572	02-06-2007	Diamond et al.	
	246	7,197,359	03-27-2007	Tokudome et al.	
	247	7,198,623	04-03-2007	Fischer et al.	
	248	7,232,444	06-19-2007	Chang	
	249	7,241,208	07-10-2007	Suissa et al.	
	250	7,276,051	10-02-2007	Henley et al.	
	251	7,293,930	11-13-2007	Chuang	
	252	7,314,326	01-01-2008	Rosenberg	
	253	7,316,657	01-08-2008	Kleinhenz et al.	
	254	7,316,671	01-08-2008	Lastovich et al.	
	255	7,318,828	01-15-2008	Revivo	
	256	7,320,691	01-22-2008	Pilcher et al.	
	257	7,320,801	01-22-2008	Kelly	
	258	7,354,423	04-08-2008	Zelickson et al.	
	259	7,364,565	04-29-2008	Freeman	
	260	7,384,405	06-10-2008	Rhoades	
	261	7,422,567	09-09-2008	Lastovich et al.	

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	262	7,427,273	09-23-2008	Mitsui	
	263	7,440,798	10-21-2008	Redding, Jr.	
	264	7,458,944	12-02-2008	Liste et al.	
	265	7,476,205	01-13-2009	Erdmann	
	266	7,477,938	01-13-2009	Sun et al.	
	267	7,482,314	01-27-2009	Grimes et al.	
	268	7,485,125	02-03-2009	Sjostrom	
	269	7,489,989	02-10-2009	Sukhanov et al.	
	270	7,507,228	03-24-2009	Sun et al.	
	271	7,582,067	09-01-2009	Van Acker	
	272	7,597,900	10-06-2009	Zimmer et al.	
	273	7,597,901	10-06-2009	Clarot et al.	
	274	7,658,742	02-09-2010	Karasiuk	
	275	7,678,120	03-16-2010	Shadduck	
	276	7,744,582	06-29-2010	Sadowski et al.	
	277	7,789,886	09-07-2010	Shadduck	
	278	7,837,695	11-23-2010	Hart et al.	
	279	7,857,806	12-28-2010	Karpowicz et al.	
	280	7,901,373	03-08-2011	Tavger	
	281	7,951,156	05-31-2011	Karasiuk	
	282	7,993,333	08-09-2011	Oral et al.	
	283	8,025,669	09-27-2011	David et al.	
	284	8,048,089	11-01-2011	Ignon et al.	
	285	RE42,960	11-22-2011	Waldron	
	286	8,066,716	11-29-2011	Shadduck	
	287	8,088,085	01-03-2012	Thiebaut et al.	
	288	8,105,295	01-31-2012	Blott et al.	
	289	8,128,638	03-06-2012	Karasiuk et al.	
	290	8,221,437	07-17-2012	Waldron et al.	

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	291	8,231,292	07-31-2012	Rabe et al.	
	292	8,236,008	08-07-2012	Boone, III et al.	
	293	8,277,287	10-02-2012	Hart	
	294	8,337,513	12-25-2012	Shadduck	
	295	8,343,116	01-01-2013	Ignon et al.	
	296	8,475,507	07-02-2013	Dewey et al.	
	297	8,478,396	07-02-2013	Tsao et al.	
	298	8,535,299	09-17-2013	Giovannoli	
	299	8,545,489	10-01-2013	Giovannoli	
	300	8,562,626	10-22-2013	Sabir et al.	
	301	8,573,874	11-05-2013	Neuner	
	302	8,579,916	11-12-2013	Cheney	
	303	8,721,662	05-13-2014	Karasiuk	
	304	8,814,836	08-26-2014	Ignon et al.	
	305	8,858,570	10-14-2014	Chang	
	306	8,939,669	01-27-2015	Le et al.	
	307	8,945,104	02-03-2015	Boone, III et al.	
	308	9,044,582	06-02-2015	Chang et al.	
	309	9,050,133	06-09-2015	Boone, III et al.	
	310	9,056,193	06-16-2015	Ignon et al.	
	311	9,072,533	07-07-2015	Liu et al.	
	312	9,186,490	11-17-2015	Chang et al.	
	313	9,227,044	01-05-2016	Bansal et al.	
	314	9,271,755	03-01-2016	Luzon et al.	
	315	9,468,464	10-18-2016	Shadduck	
	316	9,474,886	10-25-2016	Ignon et al.	
	317	9,486,615	11-08-2016	Ignon et al.	
	318	9,498,610	11-22-2016	Ignon et al.	
	319	9,517,085	12-13-2016	Karasiuk	

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	320	9,550,052	01-24-2017	Ignon et al.	
	321	9,566,088	02-14-2017	Ignon et al.	
	322	9,597,527	03-21-2017	Buchholz et al.	
	323	9,636,521	05-02-2017	Isserow et al.	
	324	9,636,522	05-02-2017	Oversluizen et al.	
	325	9,642,997	05-09-2017	Ignon et al.	
	326	9,662,482	05-30-2017	Ignon et al.	
	327	9,669,233	06-06-2017	Quisenberry et al.	
	328	9,675,817	06-13-2017	Isserow et al.	
	329	9,700,684	07-11-2017	Vlodaver et al.	
	330	9,731,053	08-15-2017	Alai	
	331	9,775,645	10-03-2017	Boone, III	
	332	9,775,646	10-03-2017	Shadduck	
	333	9,775,976	10-03-2017	Grez	
	334	9,814,485	11-14-2017	Pratt et al.	
	335	9,814,647	11-14-2017	Ajiki	
	336	9,814,868	11-14-2017	Ignon et al.	
	337	9,833,261	12-05-2017	Boone, III et al.	
	338	9,861,442	01-09-2018	Tankovich et al.	
	339	9,918,727	03-20-2018	Boone, III et al.	
	340	9,949,552	04-24-2018	Rabe et al.	
	341	9,950,147	04-24-2018	Mehta	
	342	9,955,769	05-01-2018	Rabe et al.	
	343	9,968,800	05-15-2018	Anderson et al.	
	344	10,004,919	06-26-2018	Lemmens et al.	
	345	10,010,445	07-03-2018	Isserow et al.	
	346	10,022,289	07-17-2018	Ajiki et al.	
	347	10,035,007	07-31-2018	Ignon et al.	
	348	10,052,467	08-21-2018	Bansal et al.	

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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	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear
	349	10,076,354	09-18-2018	Knowlton	
	350	10,076,646	09-18-2018	Casasanta, III et al.	
	351	10,080,581	09-25-2018	Knowlton	
	352	10,092,478	10-09-2018	Amit	
	353	10,130,390	11-20-2018	Hart et al.	
	354	10,130,827	11-20-2018	Buchholz et al.	
	355	10,172,644	01-08-2019	Ignon et al.	
	356	10,179,229	01-15-2019	Ignon et al.	
	357	10,188,193	01-29-2019	Rabe et al.	
	358	10,206,743	02-19-2019	Tankovich et al.	
	359	10,207,034	02-19-2019	Collins	
	360	10,220,122	03-05-2019	Clark, III et al.	
	361	10,238,812	03-26-2019	Ignon	
	362	10,251,675	04-09-2019	Ignon et al.	
	363	10,272,258	04-30-2019	Quisenberry et al.	
	364	10,308,378	06-04-2019	Goodwin et al.	
	365	10,314,378	06-11-2019	Rabe et al.	
	366	10,321,948	06-18-2019	Knowlton	
	367	10,334,933	08-06-2019	Rosario et al.	
	368	10,335,191	07-02-2019	Knowlton	
	369	10,357,641	07-23-2019	Ignon et al.	
	370	10,357,642	07-23-2019	Ignon et al.	
	371	10,369,073	08-06-2019	Rosario et al.	
	372	10,456,321	10-29-2019	Shadduck	
	373	10,456,567	10-29-2019	Streeter	
	374	10,485,983	11-26-2019	Boone, III et al.	
	375	10,524,835	01-07-2020	Shadduck et al.	
	376	10,556,096	02-11-2020	Ignon et al.	
	377	10,556,097	02-11-2020	Ignon et al.	

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U.S. PATENT DOCUMENTS					
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	378	10,583,037	03-10-2020	Isserow et al.	
	379	10,667,985	06-02-2020	Decaux et al.	
	380	10,716,924	07-21-2020	Knowlton	
	381	10,737,080	08-11-2020	Patterson	
	382	10,758,261	09-01-2020	Richardson	
	383	10,772,658	09-15-2020	Knowlton	
	384	10,792,382	10-06-2020	Rafko	
	385	10,835,287	11-17-2020	Shadduck et al.	
	386	10,856,900	12-08-2020	Knowlton	
	387	10,874,579	12-29-2020	Rembert	
	388	10,912,428	02-09-2021	Daffer	
	389	10,918,190	02-16-2021	Laudati	
	390	10,946,191	03-16-2021	Cazares Delgadillo	
	391	10,952,907	03-23-2021	Carver	
	392	10,993,743	05-04-2021	Ignon et al.	
	393	11,020,577	06-01-2021	Ignon et al.	
	394	11,045,661	06-29-2021	Oversluizen et al.	
	395	11,141,761	10-12-2021	Connelly et al.	
	396	11,154,723	10-26-2021	Lee	
	397	11,202,657	12-21-2021	Ignon et al.	
	398	11,213,321	01-04-2022	Ignon et al.	
	399	11,224,728	01-18-2022	Ignon et al.	
	400	11,241,357	02-08-2022	Ignon et al.	
	401	11,291,474	04-05-2022	Nicolas et al.	
	402	11,351,063	06-07-2022	Locke et al.	
	403	11,446,477	09-20-2022	Ignon et al.	
	404	11,452,852	09-27-2022	Quan et al.	
	405	11,504,148	11-22-2022	Friend	
	406	11,517,350	12-06-2022	Ignon et al.	

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	407	11,547,840	01-10-2023	Ignon et al.	
	408	11,612,726	03-28-2023	Ignon et al.	
	409	D260,176	08-11-1981	Boschetti et al.	
	410	D486,915	02-17-2004	Warschewske et al.	
	411	D496,101	09-14-2004	Davison	
	412	D517,699	03-21-2006	Lansohn	
	413	D522,360	06-06-2006	Caserta et al.	
	414	D553,005	10-16-2007	Py et al.	
	415	D584,151	01-06-2009	Murphy	
	416	D664,254	07-24-2012	Yokoyama et al.	
	417	D678,783	03-26-2013	Wilcox et al.	
	418	D709,617	07-22-2014	Iliesco de Grimaldi et al.	
	419	D722,172	02-03-2015	Amemiya et al.	
	420	D743,558	11-17-2015	Kim et al.	
	421	D787,054	05-16-2017	Rini et al.	
	422	D811,381	02-27-2018	Morohoshi et al.	
	423	D822,845	07-10-2018	Shimobayashi et al.	
	424	D825,763	08-14-2018	Lim et al.	
	425	D836,781	12-25-2018	Meurer et al.	
	426	D851,759	06-18-2019	Jones et al.	
	427	D852,962	07-02-2019	Chang	
	428	D861,913	10-01-2019	Stamm et al.	
	429	D868,981	12-03-2019	Salamon et al.	
	430	D867,587	11-19-2019	Holtz	
	431	D873,430	01-21-2020	Accolla	
	432	D887,571	06-16-2020	Liu	
	433	D893,024	08-11-2020	Whiteside	
	434	D927,008	08-03-2021	Rappaport	
	435	D928,977	08-24-2021	Dijkstra	

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	436	2001/0023351	09-20-2001	Eilers	
	437	2001/0049511	12-06-2001	Coleman et al.	
	438	2002/0016601	02-07-2002	Shadduck	
	439	2002/0041891	04-11-2002	Cheski	
	440	2002/0058952	05-16-2002	Weber et al.	
	441	2002/0099356	07-25-2002	Unger et al.	
	442	2002/0107527	08-08-2002	Burres	
	443	2002/0128663	09-12-2002	Mercier et al.	
	444	2002/0133110	09-19-2002	Citow	
	445	2002/0133176	09-19-2002	Parkin et al.	
	446	2002/0151826	10-17-2002	Ramey et al	
	447	2002/0162863	11-07-2002	Brincat	
	448	2002/0188261	12-12-2002	Hruska	
	449	2002/0198488	12-26-2002	Yao	
	450	2003/0012415	01-16-2003	Cossel	
	451	2003/0018252	01-23-2003	Duchon et al.	
	452	2003/0060834	03-27-2003	Muldner	
	453	2003/0093040	05-15-2003	Mikszta et al.	
	454	2003/0093089	05-15-2003	Greenberg	
	455	2003/0097139	05-22-2003	Karasiuk	
	456	2003/0187462	10-14-2003	Chang	
	457	2003/0208159	11-06-2003	Ignon et al.	
	458	2003/0212127	11-13-2003	Glassman et al.	
	459	2003/0212415	11-13-2003	Karasiuk	
	460	2004/0010222	01-15-2004	Nunomura et al.	
	461	2004/0010269	01-15-2004	Grimes et al.	
	462	2004/0015139	01-22-2004	La Bianco	
	463	2004/0087972	05-06-2004	Mulholland et al.	
	464	2004/0092895	05-13-2004	Harmon	

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	465	2004/0092959	05-13-2004	Bernaz	
	466	2004/0097967	05-20-2004	Ignon	
	467	2004/0122447	06-24-2004	Harmon et al.	
	468	2004/0127914	07-01-2004	Chung	
	469	2004/0138680	07-15-2004	Twitchell et al.	
	470	2004/0162565	08-19-2004	Carson et al.	
	471	2004/0166172	08-26-2004	Rosati et al.	
	472	2004/0210280	10-21-2004	Liedtke	
	473	2004/0219179	11-04-2004	McDaniel	
	474	2004/0229295	11-18-2004	Marchitto et al.	
	475	2004/0236291	11-25-2004	Zelickson et al.	
	476	2004/0236375	11-25-2004	Redding, Jr.	
	477	2004/0243149	12-02-2004	Lee, John B. JR.	
	478	2004/0254587	12-16-2004	Park	
	479	2004/0267285	12-30-2004	Chang	
	480	2005/0037034	02-17-2005	Rhoades	
	481	2005/0038377	02-17-2005	Redding, Jr.	
	482	2005/0038448	02-17-2005	Chung	
	483	2005/0059940	03-17-2005	Weber et al.	
	484	2005/0065461	03-24-2005	Redding, Jr.	
	485	2005/0070977	03-31-2005	Molina	
	486	2005/0075599	04-07-2005	Redding, Jr.	
	487	2005/0080465	04-14-2005	Zelickson et al.	
	488	2005/0084509	04-21-2005	Bernstein	
	489	2005/0148958	07-07-2005	Rucinski	
	490	2005/0203111	09-15-2005	David	
	491	2005/0209611	09-22-2005	Greenberg	
	492	2005/0283176	12-22-2005	Law	
	493	2006/0002960	01-05-2006	Zoeteweij et al.	

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	494	2006/0015059	01-19-2006	Redding, Jr.	
	495	2006/0058714	03-16-2006	Rhoades	
	496	2006/0100567	05-11-2006	Marchitto et al.	
	497	2006/0116674	06-01-2006	Goble et al.	
	498	2006/0161178	07-20-2006	Lee	
	499	2006/0189964	08-24-2006	Anderson	
	500	2006/0191562	08-31-2006	Numomura	
	501	2006/0200099	09-07-2006	La Bianco et al.	
	502	2006/0212025	09-21-2006	McDaniel	
	503	2006/0212029	09-21-2006	Villacampa et al.	
	504	2006/0222445	10-05-2006	Chuang	
	505	2006/0253078	11-09-2006	Wu et al.	
	506	2006/0253079	11-09-2006	McDonough et al.	
	507	2006/0253125	11-09-2006	Ignon	
	508	2006/0264893	11-23-2006	Sage, Jr. et al.	
	509	2006/0264926	11-23-2006	Kochamba	
	510	2006/0269580	11-30-2006	Cole et al.	
	511	2006/0278661	12-14-2006	Cooper et al.	
	512	2007/0005078	01-04-2007	Hart et al.	
	513	2007/0020321	01-25-2007	Redding et al.	
	514	2007/0043382	02-22-2007	Cheney	
	515	2007/0049901	03-01-2007	Wu et al.	
	516	2007/0065515	03-22-2007	Key	
	517	2007/0073327	03-29-2007	Giovannoli	
	518	2007/0088371	04-19-2007	Karasiuk	
	519	2007/0093694	04-26-2007	Fassuliotis et al.	
	520	2007/0123808	05-31-2007	Rhoades	
	521	2007/0139630	06-21-2007	Kleman et al.	
	522	2007/0149991	06-28-2007	Mulholland	

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	523	2007/0154502	07-05-2007	Hattendorf et al.	
	524	2007/0156124	07-05-2007	Ignon et al.	
	525	2007/0178121	08-02-2007	First et al.	
	526	2007/0198031	08-23-2007	Kellogg	
	527	2007/0239173	10-11-2007	Khalaj	
	528	2007/0270738	11-22-2007	Wu et al.	
	529	2008/0009802	01-10-2008	Lambino et al.	
	530	2008/0027328	01-31-2008	Klopotek et al.	
	531	2008/0091126	04-17-2008	Greenburg	
	532	2008/0091179	04-17-2008	Durkin et al.	
	533	2008/0103563	05-01-2008	Powell	
	534	2008/0119781	05-22-2008	King	
	535	2008/0132914	06-05-2008	Bossard et al.	
	536	2008/0139974	06-12-2008	Da Silva	
	537	2008/0154161	06-26-2008	Abbott	
	538	2008/0154183	06-26-2008	Baker et al.	
	539	2008/0161799	07-03-2008	Stangenes et al.	
	540	2008/0188840	08-07-2008	Johnson et al.	
	541	2008/0193493	08-14-2008	Rhoades	
	542	2008/0200861	08-21-2008	Shalev et al.	
	543	2008/0200863	08-21-2008	Chomas et al.	
	544	2008/0208146	08-28-2008	Brandwein et al.	
	545	2008/0214987	09-04-2008	Xu	
	546	2008/0215068	09-04-2008	Hart et al.	
	547	2008/0221548	09-11-2008	Danenberg et al.	
	548	2008/0243039	10-02-2008	Rhoades	
	549	2008/0287864	11-20-2008	Rosenberg	
	550	2008/0300529	12-04-2008	Reinstein	
	551	2008/0300552	12-04-2008	Cichocki et al.	

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	552	2009/0048557	02-19-2009	Yeshurun et al.	
	553	2009/0053390	02-26-2009	Sakou et al.	
	554	2009/0062815	03-05-2009	Karasiuk et al.	
	555	2009/0099091	04-16-2009	Hantash	
	556	2009/0099093	04-16-2009	Hantash	
	557	2009/0124985	05-14-2009	Hasenoehrl et al.	
	558	2009/0138026	05-28-2009	Wu	
	559	2009/0222023	09-03-2009	Boone, III et al.	
	560	2009/0254014	10-08-2009	Son	
	561	2010/0023003	01-28-2010	Mulholland	
	562	2010/0045427	02-25-2010	Boone, III et al.	
	563	2010/0048980	02-25-2010	De Jong et al.	
	564	2010/0049177	02-25-2010	Boone, III et al.	
	565	2010/0049210	02-25-2010	Boone, III et al.	
	566	2010/0056847	03-04-2010	De Jong et al.	
	567	2010/0217357	08-26-2010	Da Silva	
	568	2010/0305495	12-02-2010	Anderson et al.	
	569	2011/0054490	03-03-2011	Hart	
	570	2011/0066162	03-17-2011	Cohen	
	571	2011/0264028	10-27-2011	Ramdas et al.	
	572	2011/0295273	12-01-2011	Waldron et al.	
	573	2012/0041338	02-16-2012	Chickering III et al.	
	574	2012/0136374	05-31-2012	Karasiuk	
	575	2012/0289885	11-15-2012	Cottrell et la.	
	576	2012/0302929	11-29-2012	Tkachenko	
	577	2013/0004230	01-03-2013	Kirk, III et al.	
	578	2013/0018317	01-17-2013	Bobroff et al.	
	579	2013/0066336	03-14-2013	Boone, III et al.	
	580	2013/0096577	04-18-2013	Shadduck	

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	581	2013/0144207	06-06-2013	Gonon	
	582	2013/0144280	06-06-2013	Eckhouse et al.	
	583	2013/0158547	06-20-2013	David	
	584	2013/0226269	08-29-2013	Eckhouse et al.	
	585	2013/0261534	10-03-2013	Niezgoda et al.	
	586	2014/0031801	01-30-2014	Giovannoli	
	587	2014/0079686	03-20-2014	Barman et al.	
	588	2014/0081251	03-20-2014	Giovannoli	
	589	2014/0234004	08-21-2014	Thorpe et al.	
	590	2014/0243589	08-28-2014	Rowan	
	591	2014/0316492	10-23-2014	Min et al.	
	592	2014/0378887	12-25-2014	Chang et al.	
	593	2015/0039060	02-05-2015	Paulussen et al.	
	594	2015/0272623	10-01-2015	Ignon et al.	
	595	2016/0015962	01-21-2016	Maragheh et al.	
	596	2016/0018100	01-21-2016	Batt et al.	
	597	2016/0175609	06-23-2016	Dye et al.	
	598	2016/0235257	08-18-2016	Daffer	
	599	2016/0250415	09-01-2016	Yagi et al.	
	600	2017/0043150	02-16-2017	Kim	
	601	2017/0157419	06-08-2017	Jeong	
	602	2017/0196759	07-13-2017	Palomaki et al.	
	603	2017/0209894	07-27-2017	Sporrer	
	604	2017/0291007	10-12-2017	Dubey et al.	
	605	2017/0340356	11-30-2017	Presser et al.	
	606	2018/0140329	05-24-2018	Beijens et al.	
	607	2018/0185675	07-05-2018	Kern et al.	
	608	2018/0318568	11-08-2018	Ignon et al.	
	609	2018/0326191	11-15-2018	Bansal et al.	

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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	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear
	610	2019/0070069	03-07-2019	Gertner et al.	
	611	2019/0143089	05-16-2019	Ignon et al.	
	612	2019/0151637	05-23-2019	Groop et al.	
	613	2019/0168016	06-06-2019	Anderson et al.	
	614	2019/0209859	07-11-2019	Quisenberry et al.	
	615	2019/0223914	07-25-2019	Ignon et al.	
	616	2019/0240502	08-08-2019	Anderson et al.	
	617	2019/0366067	12-05-2019	Ginggen et al.	
	618	2020/0009007	01-09-2020	Shadduck	
	619	2020/0016342	01-16-2020	Ignon	
	620	2020/0030627	01-30-2020	Eltorai et al.	
	621	2020/0101312	04-02-2020	Pai et al.	
	622	2020/0114116	04-16-2020	Dubey et al.	
	623	2020/0171288	06-04-2020	Ignon et al.	
	624	2020/0171289	06-04-2020	Ignon et al.	
	625	2020/0179220	06-11-2020	Jablow	
	626	2020/0289161	09-17-2020	Scooros	
	627	2020/0306555	10-01-2020	Ebbesson	
	628	2020/0316270	10-08-2020	Dijkstra et al.	
	629	2020/0330754	10-22-2020	Kim et al.	
	630	2020/0338586	10-29-2020	Park	
	631	2020/0390468	12-17-2020	Alexander	
	632	2021/0085367	03-25-2021	Shadduck et al.	
	633	2021/0145479	05-20-2021	Ignon et al.	
	634	2021/0154453	05-27-2021	Ignon et al.	
	635	2021/0220631	07-22-2021	Ok et al.	
	636	2021/0236342	08-05-2021	Long et al.	
	637	2021/0236347	08-05-2021	Carver	
	638	2021/0259914	08-26-2021	Holbert	

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	639	2021/0267625	09-02-2021	Carver	
	640	2021/0268304	09-02-2021	Lee	
	641	2021/0283421	09-16-2021	Kang et al.	
	642	2021/0290430	09-23-2021	Kim	
	643	2021/0330356	10-28-2021	Del Rosario et al.	
	644	2021/0353922	11-18-2021	Ignon et al.	
	645	2021/0361525	11-25-2021	Park et al.	
	646	2021/0370089	12-02-2021	Anash	
	647	2021/0393478	12-23-2021	Bhatti	
	648	2021/0393974	12-23-2021	Kim et al.	
	649	2021/0393975	12-23-2021	Eltorai et al.	
	650	2021/0395071	12-23-2021	Zubrum et al.	
	651	2021/0402208	12-30-2021	Edgar	
	652	2022/0001198	01-06-2022	Lee	
	653	2022/0071491	03-10-2022	Bae et al.	
	654	2022/0072332	03-10-2022	Park et al.	
	655	2022/0087891	03-24-2022	Goodman et al.	
	656	2022/0111198	04-14-2022	Jung	
	657	2022/0125706	04-28-2022	Horinek et al.	
	658	2022/0126014	04-28-2022	Cederna et al.	
	659	2022/0176092	06-09-2022	Quan et al.	
	660	2022/0211988	07-07-2022	Ignon et al.	
	661	2022/0226668	07-21-2022	Lee et al.	
	662	2022/0241107	08-04-2022	Kim et al.	
	663	2022/0241146	08-04-2022	Jeong	
	664	2022/0401714	12-22-2022	Quan et al.	
	665	2023/0012684	01-19-2023	Ignon et al.	
	666	2023/0018295	01-19-2023	Ignon et al.	
	667	2023/0033217	02-02-2023	Ignon et al.	

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	668	2023/0033761	02-02-2023	Ignon et al.	
	669	3,608,553	09-28-1971	Balamuth	
	670	4,671,412	06-09-1987	Gatten	
	671	4,866,202	09-12-1989	Weil	
	672	4,990,841	02-05-1991	Elder	
	673	5,217,455	06-08-1993	Tan	
	674	5,290,273	03-01-1994	Tan	
	675	5,423,803	06-13-1995	Tankovich et al.	
	676	5,437,372	08-01-1995	Per-Lee	
	677	5,618,275	04-08-1997	Bock	
	678	5,626,631	05-06-1997	Eckhouse	
	679	5,658,323	08-19-1997	Miller	
	680	5,755,751	05-26-1998	Eckhouse	
	681	5,817,089	10-06-1998	Tankovich et al.	
	682	5,879,376	03-09-1999	Miller	
	683	5,911,223	06-15-1999	Weaver et al.	
	684	6,027,495	02-22-2000	Miller	
	685	6,032,071	02-29-2000	Binder	
	686	6,036,684	03-14-2000	Tankovich et al.	
	687	6,074,382	06-13-2000	Asah et al.	
	688	6,093,021	07-25-2000	Rainey	
	689	6,113,559	09-05-2000	Klopotek	
	690	6,149,644	11-21-2000	Xie	
	691	6,174,325	01-16-2001	Eckhouse	
	692	6,190,376	02-20-2001	Asah et al.	
	693	6,269,271	07-31-2001	Bernabei	
	694	6,280,438	08-28-2001	Eckhouse et al.	
	695	6,325,381	12-04-2001	von Engelbrechten	
	696	6,325,769	12-04-2001	Klopotek	

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	697	6,334,074	12-25-2001	Spertell	
	698	6,383,177	05-07-2002	Balle-Petersen et al.	
	699	6,387,089	05-14-2002	Kreindel et al.	
	700	6,458,109	10-01-2002	Henley et al.	
	701	6,514,243	02-04-2003	Eckhouse et al.	
	702	6,514,278	02-04-2003	Hibst et al.	
	703	6,518,538	02-11-2003	Bernabei	
	704	6,527,716	03-04-2003	Eppstein	
	705	6,533,776	03-18-2003	Asah et al.	
	706	6,569,157	05-27-2003	Shain et al.	
	707	6,587,730	07-01-2003	Bernabei	
	708	6,595,934	07-22-2003	Hissong et al.	
	709	6,611,706	08-26-2003	Avrahami et al.	
	710	6,629,971	10-07-2003	McDaniel	
	711	6,629,974	10-07-2003	Penny et al.	
	712	6,699,237	03-02-2004	Weber et al.	
	713	6,712,805	03-30-2004	Weimann	
	714	6,878,144	04-12-2005	Altshuler et al.	
	715	6,887,260	05-03-2005	McDaniel	
	716	7,031,805	04-18-2006	Lee et al.	
	717	7,062,317	06-13-2006	Avrahami et al.	
	718	7,108,689	09-19-2006	Eckhouse et al.	
	719	7,118,563	10-10-2006	Weckwerth et al.	
	720	7,122,029	10-17-2006	Koop et al.	
	721	7,189,230	03-13-2007	Knowlton	
	722	7,201,765	04-10-2007	McDaniel	
	723	7,232,431	06-19-2007	Weimann	
	724	7,250,045	07-31-2007	Island et al.	
	725	7,326,199	02-05-2008	MacFarland et al.	

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	726	7,329,252	02-12-2008	Yamazaki et al.	
	727	7,367,981	05-06-2008	Bernaz	
	728	7,494,503	02-24-2009	McDaniel	
	729	7,572,238	08-11-2009	Rhoades	
	730	7,607,972	10-27-2009	Groman	
	731	7,730,979	06-08-2010	Kahrig	
	732	7,731,570	06-08-2010	Groman	
	733	7,740,651	06-22-2010	Barak et al.	
	734	7,749,260	07-06-2010	Da Silva et al.	
	735	7,758,537	07-20-2010	Brunell et al.	
	736	7,771,374	08-10-2010	Slatkine	
	737	7,780,652	08-24-2010	MacFarland et al.	
	738	7,814,915	10-19-2010	Davenport et al.	
	739	7,862,564	01-04-2011	Goble	
	740	7,927,188	04-19-2011	Groman	
	741	7,981,111	07-19-2011	Grove et al.	
	742	7,981,112	07-19-2011	Neev	
	743	8,048,064	11-01-2011	Hwang et al.	
	744	8,135,475	03-13-2012	Kreindel et al.	
	745	8,182,473	05-22-2012	Altshuler et al.	
	746	8,226,663	07-24-2012	Remsburg et al.	
	747	8,236,036	08-07-2012	Frost	
	748	8,241,094	08-14-2012	Groman	
	749	8,273,080	09-25-2012	Mehta	
	750	8,276,592	10-02-2012	Davenport et al.	
	751	8,282,630	10-09-2012	Neev	
	752	8,313,480	11-20-2012	Neev	
	753	8,317,781	11-27-2012	Owens et al.	
	754	8,323,253	12-04-2012	Hantash et al.	

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	755	8,360,826	01-29-2013	Groman	
	756	8,398,621	03-19-2013	Beerwerth et al.	
	757	8,430,104	04-30-2013	Hennings et al.	
	758	8,435,234	05-07-2013	Chan et al.	
	759	8,480,721	07-09-2013	Owens et al.	
	760	8,496,654	07-30-2013	Adanny et al.	
	761	8,496,695	07-30-2013	Kang et al.	
	762	8,545,419	10-01-2013	Kim	
	763	8,551,104	10-08-2013	Weckwerth et al.	
	764	8,597,284	12-03-2013	Castro	
	765	8,632,378	01-21-2014	Groman	
	766	8,656,931	02-25-2014	Davenport et al.	
	767	8,668,552	03-11-2014	Groman	
	768	8,679,039	03-25-2014	Tieu et al.	
	769	8,700,176	04-15-2014	Azar et al.	
	770	8,702,691	04-22-2014	Weber et al.	
	771	8,702,771	04-22-2014	Frost	
	772	8,728,064	05-20-2014	Schomacker et al.	
	773	8,740,917	06-03-2014	Pilcher et al.	
	774	8,818,500	08-26-2014	Duquet et al.	
	775	8,821,940	09-02-2014	Harris et al.	
	776	8,834,933	09-16-2014	Harris et al.	
	777	8,945,109	02-03-2015	Mehta	
	778	8,974,442	03-10-2015	Boss, Jr.	
	779	9,017,391	04-28-2015	McDaniel	
	780	9,017,392	04-28-2015	Owens et al.	
	781	9,050,156	06-09-2015	Groman	
	782	9,072,521	07-07-2015	Levi et al.	
	783	9,072,892	07-07-2015	Owens et al.	

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	784	9,084,587	07-21-2015	Eckhouse et al.	
	785	9,149,322	10-06-2015	Knowlton	
	786	9,227,082	01-05-2016	McDaniel	
	787	9,233,207	01-12-2016	Polyakov et al.	
	788	9,278,230	03-08-2016	Levin et al.	
	789	9,283,037	03-15-2016	Bragagna et al.	
	790	9,314,302	04-19-2016	Dougal	
	791	9,351,792	05-31-2016	Manstein et al.	
	792	9,351,794	05-31-2016	Suckewer et al.	
	793	9,375,281	06-28-2016	Moench et al.	
	794	9,421,260	08-23-2016	Harris et al.	
	795	9,421,261	08-23-2016	Harris et al.	
	796	9,439,964	09-13-2016	Harris et al.	
	797	9,440,093	09-13-2016	Homer	
	798	9,452,013	09-27-2016	Manstein	
	799	9,480,836	11-01-2016	Na	
	800	9,522,287	12-20-2016	Owens et al.	
	801	9,566,454	02-14-2017	Barthe et al.	
	802	9,572,880	02-21-2017	Harris et al.	
	803	9,694,199	07-04-2017	Duquet et al.	
	804	9,744,315	08-29-2017	Levi	
	805	9,814,906	11-14-2017	McDaniel	
	806	9,962,220	05-08-2018	Domankevitz	
	807	10,105,191	10-23-2018	Blanco et al.	
	808	10,149,969	12-11-2018	Grez et al.	
	809	10,149,984	12-11-2018	Modi et al.	
	810	10,183,183	01-22-2019	Burdette	
	811	10,238,849	03-26-2019	Britva et al.	
	812	10,252,044	04-09-2019	Bock	

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	813	10,271,900	04-30-2019	Marchitto et al.	
	814	10,307,330	06-04-2019	Sedic	
	815	10,328,277	06-25-2019	Modi et al.	
	816	10,413,359	09-17-2019	Felsenstein et al.	
	817	10,456,197	10-29-2019	Felsenstein et al.	
	818	10,463,429	11-05-2019	Deem et al.	
	819	10,471,274	11-12-2019	Liu et al.	
	820	10,537,304	01-21-2020	Barthe et al.	
	821	10,537,640	01-21-2020	Harris et al.	
	822	10,675,481	06-09-2020	Tankovich	
	823	10,688,290	06-23-2020	Yuval	
	824	10,702,328	07-07-2020	Slatkine et al.	
	825	10,736,653	08-11-2020	Knowlton	
	826	10,799,285	10-13-2020	Mulholland	
	827	10,799,430	10-13-2020	Danto	
	828	10,813,694	10-27-2020	Johnson et al.	
	829	10,835,726	11-17-2020	Redding, Jr.	
	830	10,850,095	12-01-2020	Ebbers et al.	
	831	10,860,026	12-08-2020	Nguyen et al.	
	832	10,893,907	01-19-2021	Kim	
	833	10,952,811	03-23-2021	Blanco et al.	
	834	10,980,592	04-20-2021	Horton et al.	
	835	11,083,515	08-10-2021	Slatkine et al.	
	836	11,123,039	09-21-2021	Barthe et al.	
	837	11,172,978	11-16-2021	Wootten et al.	
	838	11,247,039	02-15-2022	Schwarz	
	839	11,278,101	03-22-2022	Jeannin et al.	
	840	11,291,498	04-05-2022	Slatkine et al.	
	841	11,311,721	04-26-2022	Ebbers et al.	

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	Application No.	18/094884
	Filing Date	January 9, 2023
	First Named Inventor	Ignon, Roger
	Art Unit	3771
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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
	842	11,337,745	05-24-2022	Kim	
	843	11,337,755	05-24-2022	Hancock et al.	
	844	11,419,678	08-23-2022	Deem et al.	
	845	11,497,553	11-15-2022	Reinhard et al.	
	846	11,540,882	01-03-2023	Masotti et al.	
	847	11,590,345	02-28-2023	Danitz et al.	
	848	11,602,629	03-14-2023	Schwarz et al.	
	849	11,717,326	08-08-2023	Ignon et al.	
	850	D117,295	10-24-1939	Smith	
	851	D151,807	11-23-1948	Berkowitz	
	852	D237,776	11-25-1975	Arassa et al.	
	853	D237,863	12-02-1975	Peters et al.	
	854	D255,325	06-10-1980	Hoyt	
	855	D258,348	02-24-1981	Hoyt	
	856	D259,921	07-21-1981	Hartmann	
	857	D288,293	02-17-1987	Arvans	
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	860	D317,719	06-25-1991	Hestehave et al.	
	861	D428,142	07-11-2000	Stromblad	
	862	D472,136	03-25-2003	Hermann	
	863	D490,561	05-25-2004	Angeletta	
	864	D499,207	11-30-2004	Angeletta	
	865	D499,841	12-14-2004	Angeletta	
	866	D502,288	02-22-2005	Longoria	
	867	D502,289	02-22-2005	Longoria	
	868	D502,569	03-01-2005	Longoria	
	869	D533,962	12-19-2006	Angeletta	
	870	D536,481	02-06-2007	Angeletta	

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	871	D545,207	06-26-2007	De Baschmakoff	
	872	D557,611	12-18-2007	Ingemarsson	
	873	D625,198	10-12-2010	Hall	
	874	D639,164	06-07-2011	Walsh	
	875	D676,764	02-26-2013	Moore et al.	
	876	D680,437	04-23-2013	Bartolo et al.	
	877	D697,404	01-14-2014	Johnson et al.	
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	881	D772,481	11-22-2016	Paquet	
	882	D782,881	04-04-2017	Seiders et al.	
	883	D811,225	02-27-2018	Newson	
	884	D833,283	11-13-2018	Rock	
	885	D873,481	01-21-2020	Larkin	
	886	D886,370	06-02-2020	Soutelo Gomes	
	887	D886,372	06-02-2020	Weinrich	
	888	D908,282	01-19-2021	Kim	
	889	D917,290	04-27-2021	Bravman et al.	
	890	2002/0040199	04-04-2002	Klopotek	
	891	2003/135388	07-17-2003	Martucci et al.	
	892	2004/0005349	01-08-2004	Neev	
	893	2004/0176823	09-09-2004	Island et al.	
	894	2005/0015077	01-20-2005	Kuklin et al.	
	895	2005/0154333	07-14-2005	Mulholland et al.	
	896	2005/0203593	09-15-2005	Shanks et al.	
	897	2006/0184071	08-17-2006	Klopotek	
	898	2006/0200213	09-07-2006	McDaniel	
	899	2006/0235371	10-19-2006	Wakamatsu et al.	

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	900	2007/0078290	04-05-2007	Esenaliev	
	901	2007/0088245	04-19-2007	Babaev et al.	
	902	2007/0232987	10-04-2007	Diaz et al.	
	903	2007/0239079	10-11-2007	Manstein et al.	
	904	2007/0255355	11-01-2007	Altshuler et al.	
	905	2007/0264625	11-15-2007	DeBenedictis et al.	
	906	2008/0015555	01-17-2008	Manstein et al.	
	907	2008/0027518	01-31-2008	Island et al.	
	908	2008/0146970	06-19-2008	Litman et al.	
	909	2008/0208179	08-28-2008	Chan et al.	
	910	2008/0234626	09-25-2008	Chelak	
	911	2009/0118684	05-07-2009	Da Silva et al.	
	912	2009/0132012	05-21-2009	Shanks	
	913	2009/0171191	07-02-2009	Patrick et al.	
	914	2009/0171194	07-02-2009	Patrick et al.	
	915	2009/0299237	12-03-2009	Rhoades	
	916	2010/0063565	03-11-2010	Beerwerth et al.	
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	918	2011/0067761	06-09-2011	King	
	919	2011/0190726	08-04-2011	Hantash et al.	
	920	2011/0251523	10-13-2011	Kim	
	921	2011/0270137	11-03-2011	Goren et al.	
	922	2011/0270364	11-03-2011	Kreindel et la.	
	923	2012/0041523	02-16-2012	Solomon et al.	
	924	2012/0109041	05-03-2012	Munz	
	925	2012/0109043	05-03-2012	Zhou et al.	
	926	2012/0171636	07-05-2012	Groman	
	927	2012/0259252	10-11-2012	Thorn-Leeson et al.	
	928	2013/0085421	04-04-2013	Gillespie et al.	

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	929	2013/0096546	04-18-2013	Mirkov et al.	
	930	2013/0204238	08-08-2013	Lederman et al.	
	931	2013/0226075	08-29-2013	Hennings et al.	
	932	2013/0268032	10-10-2013	Neev	
	933	2013/0310906	11-21-2013	Neev	
	934	2013/0317314	11-28-2013	Lampson	
	935	2013/0345616	12-26-2013	Chang	
	936	2014/0094718	04-03-2014	Feldman	
	937	2014/0114234	04-24-2014	Redding, Jr.	
	938	2014/0135798	05-15-2014	David	
	939	2015/0141877	05-21-2015	Feldman	
	940	2015/0157496	06-11-2015	Horton et al.	
	941	2015/0202007	07-23-2015	Mainstein et al.	
	942	2015/0313993	11-05-2015	Bock	
	943	2015/0351868	12-10-2015	Groman	
	944	2016/0220849	08-04-2016	Knowlton	
	945	2016/0270850	09-22-2016	Manstein et al.	
	946	2016/0270851	09-22-2016	Moench et al.	
	947	2016/0287333	10-06-2016	Morrison	
	948	2016/0324578	11-10-2016	Manstein et al.	
	949	2017/0065829	03-09-2017	Ku	
	950	2017/0106206	04-20-2017	Seckel	
	951	2017/0128319	05-11-2017	Decaux et al.	
	952	2017/0252105	09-07-2017	Deem et al.	
	953	2017/0343308	11-30-2017	Wojciechowski, III et al.	
	954	2018/0008500	01-11-2018	Anderson et al.	
	955	2018/0310979	11-01-2018	Peled et al.	
	956	2019/0009110	01-10-2019	Gross et al.	
	957	2019/0009111	01-10-2019	Myhr et al.	

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	958	2019/0076193	03-14-2019	Clementi et al.	
	959	2019/0083161	03-21-2019	Harle et al.	
	960	2019/0183562	06-20-2019	Widgerow	
	961	2019/0224501	07-25-2019	Burdette	
	962	2019/0239939	08-08-2019	Boll et al.	
	963	2019/0240110	08-08-2019	Sedic	
	964	2019/0257320	08-22-2019	Petit et al.	
	965	2019/0274759	09-12-2019	Royon et al.	
	966	2019/0275320	09-12-2019	Kim et al.	
	967	2020/0121354	04-23-2020	Ginggen et a l.	
	968	2020/0206072	07-02-2020	Capelli et al.	
	969	2020/0254273	08-13-2020	Jafari et al.	
	970	2020/0275945	09-03-2020	Knowlton	
	971	2020/0288843	09-17-2020	Verheem	
	972	2020/0367961	11-26-2020	Podmore et al.	
	973	2021/0001148	01-07-2021	Verheem	
	974	2021/0052292	02-25-2021	Karni	
	975	2021/0128416	05-06-2021	Danto	
	976	2021/0154093	05-27-2021	Boone, III et al.	
	977	2021/0236836	08-05-2021	Schwarz et al.	
	978	2021/0242657	08-05-2021	Yi et al.	
	979	2021/0275406	09-09-2021	Danto	
	980	2021/0282855	09-16-2021	Boinagrov et al.	
	981	2021/0370049	12-02-2021	Moss et al.	
	982	2022/0001199	01-06-2022	Beerwerth et al.	
	983	2022/0008122	01-13-2022	Johnston et al.	
	984	2022/0032082	02-03-2022	Shenfarber et al.	
	985	2022/0054189	02-24-2022	Wootten	
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	987	2022/0133407	05-05-2022	Anderson et al.	
	988	2022/0175443	06-09-2022	Slatkine et al.	
	989	2022/0203112	06-30-2022	Iger et al.	
	990	2022/0211424	07-07-2022	Wootten et al.	
	991	2022/0218562	07-14-2022	Capelli et al.	
	992	2022/0233400	07-28-2022	Oh et al.	
	993	2022/0268536	08-25-2022	Stephenson et al.	
	994	2022/0287910	09-15-2022	Boone, III et al.	
	995	2022/0312940	10-06-2022	Hong et al.	
	996	2022/0362529	11-17-2022	Castro	
	997	2022/0409276	12-29-2022	Choi	
	998	2023/0014299	01-19-2023	Lee, Jr. et al.	
	999	2023/0019979	01-19-2023	Deem et al.	
	1000	2023/0042047	02-09-2023	Kim et al.	
	1001	2023/0062185	03-02-2023	Nazarian et al.	
	1002	2023/0104221	04-06-2023	Aharon	
	1003	2023/0123145	04-20-2023	Ko	

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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	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear	T[1]
	1004	AT 400305	12-27-1995	Devida Ges MBH		
	1005	AU 1014299	05-31-1999	Greenberg		
	1006	CA 2340154	09-09-2002	Hoffman et al.		
	1007	CN 107920948	04-17-2018	Edge Systems LLC		
	1008	CN 306995346	12-10-2021	Zhu Li		Abs
	1009	DE 234608	04-09-1986	Rath		
	1010	DE 599521	07-04-1934	Strickler et al.		
	1011	DE 2415633	10-16-1975	Nubert Geb KG		Abs

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	1012	DE 3338057	08-09-1984	Krueger-Beuster		Abs
	1013	DE 3421390	12-12-1985	Schubert		
	1014	DE 3503343	08-14-1986	Frenkel		Abs
	1015	DE 8330191	06-04-1987	Krueger-Beuster		
	1016	DE 3740902	12-22-1988	Schlicksupp		Abs
	1017	DE 4237940	05-19-1993	Berens et al.		Abs
	1018	DE 29808395	08-27-1998	Ionto-Comed GmbH		
	1019	DE 10-2004-015815	11-03-2005	Bundersrepublik Deutschland		
	1020	EP 0258901	09-03-1987	Tonokura Ika Kogyo Co. LTD		
	1021	EP 0564392	03-03-1993	Fructuoso Martinez		
	1022	EP 0784997	07-23-1997	Koblinger Gerald Ing		Abs
	1023	EP 1238643	04-07-2000	S.O.R Internacional		
	1024	EP 1453558	09-08-2004	Envy Medical, Inc.		
	1025	EP 2106780	03-09-2016	Pomar		
	1026	EP 2865867	05-04-2016	Delavan Inc.		
	1027	EP 2206483	07-14-2010	Andrea Uterstaedt		Abs
	1028	EP 2240099	02-21-2018	Edge Systems LLC.		
	1029	EP 2451367	01-22-2020	Edge Systems LLC.		
	1030	EP 2544563	09-16-2015	LRC Products Limited		
	1031	EP 2618797	04-08-2020	Sharon Hilditch		
	1032	EP 2967633	04-25-2018	Edge Systems LLC		
	1033	EP 3217899	05-19-2016	CYTRELLIS BIOSYSTEMS INC		
	1034	EP 3237055	08-12-2020	Edge Systems LLC		
	1035	EP 3302319	04-11-2018	Koninklijke Philips N.V.		
	1036	EP 3319573	05-16-2018	Edge Systems LLC		
	1037	EP 3340908	07-04-2018	Koninklijke Philips N.V.		
	1038	EP 3388006	03-04-2020	Edge Systems LLC		

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	1040	EP 3795204	03-24-2021	Edge Systems LLC.		
	1041	ES 1037776	04-01-1998	Concustell Gonfaus		Abs
	1042	EU Des. 8794184-0001	12-13-2021	Stallvärme Sverige AB		
	1043	FR 2712172	05-19-1995	Rabier		Abs
	1044	FR 2773461	07-16-1999	Favie Alain		Abs
	1045	GB 1372609	10-30-1974	Forenade Fabrik-Sverken		
	1046	GB 2306351	05-07-1997	Inahara		
	1047	IT 553076	12-01-1956	Facconi		
	1048	IT 1184922	03-22-1985	Porqueddu		
	1049	JP H05-042060	02-23-1993	Hara		X
	1050	JP (53-118927) S55-034863	08-29-1963			
	1051	JP1993-088552	12-03-1993	Sumitomo Bakelite Co., Ltd.		
	1052	JP 1997-294747	11-18-1997	Fukutaro, Yamazaki		
	1053	JP 2003-339713	12-02-2003	Twinbird Corp		
	1054	JP 2003-534881	11-25-2003	Becton, Dickinson and Company		Abs
	1055	JP 2004-275721	10-07-2004	Matsushita Electric Works		
	1056	JP 2006-503627 (English abstract of WO 2004/037098)	02-02-2006	Bionoface		
	1057	JP 2006-204767	10-08-2006	Matsushita Electric Works		
	1058	JP 2012-527967	11-12-2012	General Hospital Corp		
	1059	JP D1581877	07-24-2017	Lexington International LLC		X
	1060	JP 2018-527052	09-20-2018	Edge Systems LLC		
	1061	KR 10-1836310	03-02-2018	Edge Systems LLC		

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	1062	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		X
	1063	KR 10-20070070173	07-03-2007	Dermanew Inc.		Abs
	1064	KR 10-2018-0030607	03-23-2018	Edge Systems LLC		
	1065	TW D214226	09-21-2021	Baoliwang Health Technology Co., Ltd.		X
	1066	WO 1994/024980	11-10-1994	D+P Cosmetics AG		
	1067	WO 1997/011650	03-04-1997	Cawley		
	1068	WO 2000/015300	03-23-2000	Ultra Cure Ltd		
	1069	WO 2000/79540	12-28-2000	DAUGHTON JAMES M; NONVOLATILE ELECTRONICS INC; POHM ARTHUR V		
	1070	WO 2001/93931	12-13-2001	Becton, Dickinson and Company		
	1071	WO 2003/073917	09-12-2003	Edge Systems		
	1072	WO 2004/037098	05-06-2004	Bionoface		
	1073	WO 2005/061042	07-07-2005	CMS Co., Ltd.		X
	1074	WO 2005/070313	08-04-2005	Crystal Clear International Limited		
	1075	WO 2006/018731	02-23-2006	Mc Anton Holding SA		
	1076	WO 2006/031413	03-23-2006	Dermanew Inc.		
	1077	WO 2007/114904	10-11-2007	Amcol International Corporation		
	1078	WO 2008/012324	01-31-2008	Maurizio Busoni		
	1079	WO 2009/088884	07-16-2009	Edge Systems Corporation	JP 5508285 WO 2009/088884	
	1080	WO 2009/097451	08-06-2009	Edge Systems Corporation		

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.

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

PTO/SB/08 Equivalent

INFORMATION DISCLOSURE STATEMENT BY APPLICANT	Application No.	18/094884
	Filing Date	January 9, 2023
	First Named Inventor	Ignon, Roger
	Art Unit	3771
(Multiple sheets used when necessary)	Examiner	Unassigned
SHEET 39 OF 40	Attorney Docket No.	EDGE.005C10

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]
	1081	WO 2010/068960	06-24-2010	Silverbrook Research Pty Ltd		
	1082	WO 2011/006009	01-13-2011	Edge Systems Corporation		
	1083	WO 2011/110840	09-15-2011	LRC Products Limited		
	1084	WO 2012/145667	10-26-2012	Sun-Less, Inc.		
	1085	WO 2013/030117	03-07-2013	Medic Activ Vertriebs GMBH		
	1086	WO 2014/091035	06-19-2014	Decaux		
	1087	WO 2014/151104	09-25-2014	Edge Systems LLC		
	1088	WO 2016/052818	04-07-2016	LG Electronics Inc.		
	1089	WO 2016/106396	06-30-2016	Edge Systems LLC		
	1090	WO 2017/007939	01-12-2017	Edge Systems LLC		
	1091	WO 2017/111481	06-29-2017	Amore Pacific Co., Ltd.		X
	1092	WO 2021/018765	02-04-2021	L'Oreal		
	1093	WO 2021/113343	06-10-2021	Sorrento Therapeutics, Inc.		
	1094	WO 2022/099318	05-12-2022	Edge Systems LLC		
	1095	WO 2023/039524	03-16-2023	Hydrafacial LLC		
	1096	CA 2784209	08-04-2011	KCI Licensing Inc		
	1097	CN 1708261	12-14-2005	Palomar Medical Technologies, Inc.		X
	1098	EP 0479121	04-08-1992	Fidia SpA		
	1099	EU Des. 8880371-0001	05-20-2022	Edge Systems LLC		
	1100	GB 2585500	01-13-2021	Tube Tech International Limited		
	1101	JP 2013-215621	10-24-2013	Corium International Inc.		X
	1102	JP D1609357	06-22-2018	Pocket Sky OG		X
	1103	WO 1997/000707	01-09-1997	Chattanooga Group, Inc.		
	1104	WO 2004/108091	12-16-2001	Board of Regents, The Universioty of Texas System		

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.	18/094884
	Filing Date	January 9, 2023
	First Named Inventor	Ignon, Roger
	Art Unit	3771
(Multiple sheets used when necessary)	Examiner	Unassigned
SHEET 40 OF 40	Attorney Docket No.	EDGE.005C10

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]
	1105	WO 2004/037287	05-06-2004	Palomar Medical Technologies, Inc.		
	1106	WO 2009/086182	07-09-2009	Carticept Medical, Inc.		
	1107	WO 2010/022396	02-25-2010	Envy Medical, Inc.		
	1108	WO 2010/151704	12-29-2010	Carticept Medical, Inc.		
	1109	WO 2023/064718	04-20-2023	Hydrafacial 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]
	1110	Amazon, FAZJEUNE 7 Color LED Light, LED Face Mask Skin Rejevenation PDT Photon Facial Skin Care Mask Skin Tightening Lamp SPA Face Device Beauty Salon Equipment Anti-aging Remove Wrinkle, Customer reviewed on 9/2020, retrieved from internet at https://www.amazon.com/FAZJEUNE-Rejuvenation-Tightening-Equipment-Anti-aging/dp/B08B4M8RQQ/ref=psdc_11061121_t3_B08ZSPZSF4	
	1111	File History of Reissue Application No. 11/027,590, filed December 29, 2004 (Reissue of U.S. Patent No. 6,500,183, issued December 31, 2002).	
	1112	File History of Reexamination No. 90/007,683 (Reexamination of U.S. Patent No. 6,241,739, issued June 5, 2001).	
	1113	File History of Reexamination No. 90/013,284 filed July 2, 2014 (Reexamination of US Patent No. 6,241,739, issued June 5, 2001).	
	1114	COX III et al., Decreased Splatter in Dermabrasion, Arch Facial Plastic Surgery, Jan-Mar 2000, Vol. 2, pp. 23-26	
	1115	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.	
	1116	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.	
	1117	HYDRAFACIAL® TOWER - User guide. Edge Systems. Revised june 23, 2016. Page no. 16.	
	1118	Microdermabrader Pepita Instruction Manual, Mattioli Engineering S.R.L., PEP_USA2.doc Rev 1.1, 09-29-1997	
	1119	Beautimate adjustable Hydra Needle Microneedling Serium Applicator, https://www.beautimate.com/products/adjustable-hydra-needle, first accessed August 12, 2023.	
	1120	Hydrafacial Hydropeel Vortex Fusion Tips, https://mergesouq.com/products/hydrafacial-hydropeel-vortex-fusion-tips, first accessed August 12, 2023.	

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Examiner Signature	/CHRISTIAN D KNAUSS/	Date Considered	10/04/2023

***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

First Inventor: Ignon, Roger	**Conf. No.:** 9223
App. No.: 18/094884	**Filed:** January 9, 2023
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

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.

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
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

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

Attorney Docket No.	App. No. (Pat. No., if appl.)	Filing Date	Title
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 (Pat. No. 11,446,477)	July 19, 2019	DEVICES AND METHODS FOR TREATING SKIN
EDGE.005C8	17/165,820 (Pat. No. 11,547,840)	Feb. 2, 2021	DEVICES AND METHODS FOR TREATING SKIN
EDGE.005C9	17/165,807 (Pat. No. 11,612,726)	Feb. 2, 2021	DEVICES AND METHODS FOR TREATING SKIN
EDGE.005C10	***18/094,884 (present application)***	***Jan. 9, 2023***	***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.044C3	17/952,569	Sep. 26, 2022	DEVICES, SYSTEMS, AND METHODS FOR TREATING THE SKIN
EDGE.044C4	17/952,665	Sep. 26, 2022	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

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

Attorney Docket No.	App. No. (Pat. No., if appl.)	Filing Date	Title
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
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 (Pat. No. 11,717,326)	Apr. 5, 2019	DEVICES, SYSTEMS AND METHODS FOR TREATING THE SKIN
EDGE.077C3	17/952,721	Sep. 26, 2022	DEVICES, SYSTEMS, AND METHODS FOR TREATING THE SKIN
EDGE.077C4	17/952,676	Sep. 26, 2022	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 (Pat. No. 11,517,350)	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

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

Attorney Docket No.	App. No. (Pat. No., if appl.)	Filing Date	Title
EDGE.091C1	17/592,432	Feb. 3, 2022	DEVICES, SYSTEMS AND METHODS FOR IMPROVING SCALP HEALTH
EDGE.131NP	18/035,723	May 5, 2023	DEVICES, SYSTEMS AND METHODS FOR TREATING THE SKIN
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
EDGE.180DA	29/811,070	Oct. 11, 2021	SKIN TREATMENT TIP
EDGE.205DA	29/,826,153	Feb. 9, 2022	DUAL TREATING DEVICE FOR TREATING ACNE OR WRINKLES
EDGE.205DC1	29/854,067	Sep. 21, 2022	TREATMENT DEVICE FOR SKIN
EDGE.212DA	29/884,441	Feb. 10, 2023	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 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 issued 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: September 29, 2023

By: / Daniel Mittelstein /
Daniel M. Mittelstein
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/CHRISTIAN D KNAUSS/
10/04/2023

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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	2015/08/03 04:30 AM
L2	101	(scott near2 mallett).in.	(US-PGPUB; USPAT)	OR	OFF	OFF	2015/08/03 04:31 AM
L3	3	(abraham near2 solano).in.	(US-PGPUB; USPAT)	OR	OFF	OFF	2015/08/03 04:31 AM
L4	100	(william near2 cohen).in.	(US-PGPUB; USPAT)	OR	OFF	OFF	2015/08/03 04:31 AM
L5	0	14/700,789	(US-PGPUB; USPAT)	OR	OFF	OFF	2015/08/03 04:35 AM
L6	24	(edge near2 systems).as.	(US-PGPUB; USPAT)	OR	OFF	OFF	2015/08/03 04:36 AM
L7	117	A61M35/003	(US-PGPUB; USPAT)	OR	OFF	OFF	2015/08/03 04:40 AM
L8	848	A61M35/003.cpc.	(US-PGPUB; USPAT)	OR	OFF	OFF	2015/08/03 04:40 AM
L9	294	("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" |	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2015/08/03 04:58 AM

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		| "3977084" | "4121388" | "4155721" | "4182329" | "4203431" | "4216233" | "4378804" | "4560373" | "4646480" | "4646482" | "4676749" | "4706676" | "4754756" | "4757814" | "4764362" | "4795421" | "4875287" | "4886078" | "4887994" | "4900316" | "4917086" | "4925450" | "4957747" | "5006004" | "5006339" | "5012797" | "5035089" | "5037431" | "5037432" | "5100412" | "5119839" | "5122153" | "5207234" | "5222956" | "5242433" | "5254109" | "5368581" | "5417674" | "5419772" | "5460620" | "5470323" | "5484427" | "5562642" | "5611687" | "5674235" | "5676643" | "5676648" | "5683971" | "5713785" | "5759185" | "5779519" | "5800446" | "5810842" | "5813416" | "5846215" | "5861142" | "5873881" | "5879323" | "5882201" | "5885260" | "5908401" | "5919152" | "5954730" | "5971999" | "5980555" | "6019749" | "6024733" | "6027402" | "6039745" | "6042552" | "6080165" | "6080166" | "6090085" | "6120512" | "6136008" | "6139553" | "6139554" | "6142155" | "6149634" | "6162232" | "6183451" | "6183483" | "6231593" | "6238275" | "6241739" | "6264666" | "6277128" | "6283978" | "6299620" | "6306119" | "6306147" | "6322568" | "6368333" | "6387103" | "6410599" | "6414032" | "6420431" | "6423078" | "6423750" | "6432113" | "6471712" | "6477410" | "6482212" | "6488646" | "6494856" | "6500183" | "6503256" | "6511486" | "6514262" | "6527783" | "6535761" | "6540757" | "6562013" | "6562050" | "6564093" | "6565535"					

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L12	387	A61B2017/00535.cpc.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2015/08/03 05:45 AM
L13	206	A61B2017/00561.cpc.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2015/08/03 06:18 AM
L14	406	A61B2017/00761.cpc.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2015/08/03 06:21 AM
L15	841	A61B2017/320004.cpc.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2015/08/03 06:33 AM
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L17	297	A61B2017/320012.cpc.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2015/08/03 06:51 AM
L18	419	A61M2037/0007.cpc.	(US-PGPUB; USPAT;	OR	OFF	OFF	2015/08/03

			USOCR)				06:58 AM
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		("6299620").URPN.					
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L25	38	("0191775" | "0551973" | "1138346" | "1178898" | "3288140" | "3556097" | "3910266" | "4798599" | "5037431" | "5156846" | "5242392" | "5358494" | "5441482" | "5697920" | "5735833" | "5898211" | "5941859" | "5976556" | "6117433" | "6261275" | "6264666" | "6293929" | "6368595" | "6398767" | "6406447" | "6458109" | "6520982" | "6942649").PN. OR ("7364565").URPN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2015/08/03 08:27 AM
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L27	27	("5759185" | "6139554" | "6162232" | "6183483" | "6241739").PN. OR ("6641591").URPN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2015/08/03 08:33 AM
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		| "4456012" | "4474570" | "4477971" | "4557723" | "4585652" | "4595011" | "4602909" | "4622031" | "4633879" | "4640689" | "4679560" | "4689039" | "4693711" | "4699146" | "4700710" | "4702732" | "4706680" | "4708716" | "4713050" | "4717378" | "4721111" | "4722354" | "4722726" | "4725263" | "4727881" | "4731049" | "4731926" | "4744787" | "4747819" | "4752285" | "4756314" | "4764164" | "4767401" | "4786277" | "4786278" | "4808152" | "4810699" | "4820263" | "4823810" | "4832036" | "4842577" | "4848353").PN. OR ("5279543").URPN.					
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L31	1	"6277128".pn.	(US-PGPUB; USPAT)	OR	OFF	OFF	2015/08/03 11:44 AM
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L39	1	14/700,789	(US-PGPUB; USPAT)	OR	OFF	OFF	2016/06/15 07:04 AM
L40	531	A61M2037/0007.cpc.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2016/06/15 07:07 AM
L41	8	("4836192" "6401289" "9468464" "9474886" "9486615" "9498610" "20040015139" "20100305495").pn.	(US-PGPUB; USPAT)	OR	OFF	OFF	2017/02/01 03:47 AM
L42	1039	microdermabras$6	(US-PGPUB; USPAT)	OR	OFF	OFF	2017/12/07 01:33 PM
L43	545	microdermabras$6 and (suction$4 vacuum$4)	(US-PGPUB; USPAT)	OR	OFF	OFF	2017/12/07 01:52 PM
L44	214	microdermabras$6 and (spiral)	(US-PGPUB; USPAT)	OR	OFF	OFF	2017/12/08 05:44 AM
L45	182	(US-0002960-$ | US-0005078-$ | US-0010222-$ | US-0010269-$ | US-0012415-$ | US-0015139-$ | US-0016601-$ | US-0018252-$ | US-0018317-$ | US-0022435-$ | US-0023351-$ | US-0027328-$ | US-0032047-$ | US-0036002-$ | US-0037034-$ | US-0037118-$ | US-0038183-$ | US-0038448-$ | US-0041338-$ | US-0041891-$ | US-0043382-$ | US-0045427-$ | US-0048557-$ | US-0049177-$ | US-0049210-$ | US-0049511-$ | US-0053390-$ | US-0054490-$ | US-	(US-PGPUB; USPAT)	OR	OFF	OFF	2017/12/08 06:08 AM

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		0193493-$ | US- 0198031-$ | US- 0200099-$ | US- 0200172-$ | US- 0200173-$ | US- 0200861-$ | US- 0203111-$ | US- 0208146-$ | US- 0208159-$ | US- 0208353-$ | US- 0209611-$ | US- 0212029-$ | US- 0212127-$ | US- 0212415-$ | US- 0214987-$ | US- 0215068-$ | US- 0217357-$ | US- 0219179-$ | US- 0221548-$ | US- 0222023-$ | US- 0230824-$ | US- 0230825-$ | US- 0231379-$ | US- 0236291-$ | US- 0239173-$ | US- 0243039-$ | US- 0243149-$ | US- 0253125-$ | US- 0254587-$ | US- 0256671-$ | US- 0264893-$ | US- 0265822-$ | US- 0267285-$ | US- 0272623-$ | US- 0280320-$ | US- 0283176-$ | US- 0287864-$ | US- 0290442-$ | US- 0300529-$ | US- 0300552-$ | US- 0305495-$ | US- 0343481-$ | US- 0343574-$ | US- 1234567-$ | US- 2608032-$ | US- 2631583-$ | US- 2701559-$ | US- 2712823-$ | US- 2867214-$ | US- 2881763-$ | US- 2921585-$ | US- 20010023351-$ | US- 20010037118-$ | US- 20010049511-$ | US- 20020016601-$ | US- 20020041891-$ | US- 20020058952-$ | US- 20020107527-$ | US-					

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L47	141	(US-6039745-$ | US- 6042552-$ | US- 6080165-$ | US- 6080166-$ | US- 6090085-$ | US- 6120512-$ | US- 6129701-$ | US- 6136008-$ | US- 6139553-$ | US- 6139554-$ | US- 6142155-$ | US- 6149634-$ | US- 6159226-$ | US- 6162218-$ | US- 6162232-$ | US- 6183451-$ | US- 6183483-$ | US- 6193589-$ | US- 6231593-$ | US-	(US-PGPUB; USPAT)	OR	OFF	OFF	2017/12/08 06:08 AM

		6235039-$ | US- 6238275-$ | US- 6241739-$ | US- 6264666-$ | US- 6277128-$ | US- 6283978-$ | US- 6299620-$ | US- 6306119-$ | US- 6306147-$ | US- 6322568-$ | US- 6368333-$ | US- 6387103-$ | US- 6401289-$ | US- 6409736-$ | US- 6410599-$ | US- 6414032-$ | US- 6420431-$ | US- 6423078-$ | US- 6423750-$ | US- 6432113-$ | US- 6432114-$ | US- 6471712-$ | US- 6477410-$ | US- 6482212-$ | US- 6488646-$ | US- 6494856-$ | US- 6500183-$ | US- 6503256-$ | US- 6511486-$ | US- 6514262-$ | US- 6527783-$ | US- 6535761-$ | US- 6540757-$ | US- 6562013-$ | US- 6562050-$ | US- 6564093-$ | US- 6565535-$ | US- 6582442-$ | US- 6589218-$ | US- 6592595-$ | US- 6629983-$ | US- 6641591-$ | US- 6645184-$ | US- 6652888-$ | US- 6673081-$ | US- 6673082-$ | US- 6685853-$ | US- 6687537-$ | US- 6695853-$ | US- 6735470-$ | US- 6743211-$ | US- 6743215-$ | US- 6764493-$ | US- 6869611-$ | US- 6905487-$ | US- 6911031-$ | US- 6926681-$ | US- 6942649-$ | US-						

		7001355-$ | US- 7004933-$ | US- 7044938-$ | US- 7052503-$ | US- 7069073-$ | US- 7070488-$ | US- 7083580-$ | US- 7087063-$ | US- 7094252-$ | US- 7115275-$ | US- 7135011-$ | US- 7153311-$ | US- 7197359-$ | US- 7198623-$ | US- 7232444-$ | US- 7241208-$ | US- 7276051-$ | US- 7314326-$ | US- 7316657-$ | US- 7318828-$ | US- 7320691-$ | US- 7320801-$ | US- 7354423-$ | US- 7364565-$ | US- 7384405-$ | US- 7427273-$ | US- 7458944-$ | US- 7476205-$ | US- 7477938-$ | US- 7482314-$ | US- 7489989-$ | US- 7507228-$ | US- 7582067-$ | US- 7597900-$ | US- 7597901-$ | US- 7658742-$ | US- 7678120-$ | US- 7744582-$ | US- 7789886-$ | US- 7837695-$ | US- 7901373-$ | US- 7951156-$ | US- 8025669-$ | US- 8048089-$ | US- 8066716-$ | US- 8088085-$ | US- 8128638-$ | US- 8221437-$ | US- 8236008-$ | US- 8277287-$ | US- 8337513-$ | US- 8343116-$ | US- 8814836-$ | US- 9056193-$ | US- 9468464-$ | US- 9474886-$ | US- 9486615-$ | US- 9498610-$ | US-					

		9550052-$ | US-9566088-$ | US-9642997-$ | US-9662482-$ | US-RE37796-$ | US-RE42960-$).DID.					
L48	21	("6241739" | "6500183").PN. OR ("7153311").URPN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2017/12/08 06:52 AM
L49	51	(roger near2 ignon).in.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2017/12/08 06:58 AM
L50	1	"6277128".pn.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2017/12/08 07:05 AM
L51	23	("6277128").URPN.	(USPAT)	OR	OFF	OFF	2017/12/08 07:22 AM
L52	48	("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	2017/12/08 07:22 AM
L53	160	(tip and passage and outer and inner and spiral).clm.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2017/12/08 07:51 AM
L54	1813	A61N5/0616.cpc.	(US-PGPUB; USPAT)	OR	OFF	OFF	2017/12/08 12:10 PM
L55	263	A61N5/0616.cpc. and (abras$4 abrad$4 dermabra$4 microdermabra$4)	(US-PGPUB; USPAT)	OR	OFF	OFF	2017/12/08 12:12 PM
L56	41	("5759185" | "6139554" | "6162232" | "6183483" | "6241739").PN. OR ("6641591").URPN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2017/12/08 12:17 PM
L57	4	("6277128" "8048089" "6629983" "20010037118").pn.	(US-PGPUB; USPAT)	OR	OFF	OFF	2018/03/14 06:17 AM
L58	0	(14/700,789 14/698,713 13/267,554 "14698,673").pn.	(US-PGPUB; USPAT)	OR	OFF	OFF	2018/03/14 06:51 AM
L59	12	(14/700,789 14/698,713 13/267,554 "14698,673")	(US-PGPUB; USPAT)	OR	OFF	OFF	2018/03/14 06:51 AM
L60	4	(tip and skin and (handle handpiece) and (lumen passage) and fluid and outer and	(US-PGPUB; USPAT)	OR	OFF	OFF	2018/03/15 04:41 AM

		inner and member and spiral$7).clm.					
L61	9	("20170224972"|"20170245876"|"20170266424"|"20170319836"|"20170333689"|"5490736"|"7293930"|"9775646"|"9814868").PN.	(US-PGPUB; USPAT)	OR	OFF	OFF	2018/03/15 05:16 AM
L62	1	15/660,750	(US-PGPUB; USPAT)	OR	OFF	OFF	2018/09/12 01:36 PM
L63	1	15/660,777	(US-PGPUB; USPAT)	OR	OFF	OFF	2018/09/12 01:37 PM
L64	32	("1651585"|"20130004230"|"20170209894"|"3037509"|"3468079"|"3481677"|"3505993"|"3968789"|"4225254"|"4289158"|"4718467"|"4811734"|"5054339"|"5171215"|"5192269"|"5387215"|"5441490"|"5512044"|"5562643"|"5762640"|"5857995"|"6023639"|"6165059"|"6196982"|"6322548"|"6332886"|"6666874"|"6800083"|"6960206"|"7485125"|"7993333"|"8105295").PN.	(US-PGPUB; USPAT)	OR	OFF	OFF	2018/09/12 03:33 PM
L65	1	("10035007").PN.	(US-PGPUB; USPAT)	OR	OFF	OFF	2018/09/12 03:34 PM
L75	5	("4940350" "10172644" "10179229" "20060222445" "20180318568").pn.	(US-PGPUB; USPAT)	OR	OFF	OFF	2019/03/02 11:08 AM
L76	79	(tip AND skin AND abra$4 AND vacuum AND hand$7).clm.	(US-PGPUB; USPAT; USOCR; FIT (CN, FR, WO); FPRS; EPO)	OR	ON	ON	2021/03/27 06:58 AM
L77	79	(tip AND skin AND abra$4 AND vacuum AND hand$7).clm.	(US-PGPUB; USPAT; USOCR; FIT (CN, FR, WO); EPO)	OR	ON	ON	2021/03/27 06:59 AM
L78	80	(roger near2 ignon).in.	(US-PGPUB; USPAT; USOCR; FIT (CN, FR, WO); EPO)	OR	ON	ON	2021/03/27 07:00 AM
L79	6	L78 AND (christian near2 knauss).xa.	(US-PGPUB; USPAT; USOCR; FIT (CN, FR, WO); EPO)	OR	ON	ON	2021/03/27 07:00 AM
L80	6	L79 AND angle$4	(US-PGPUB; USPAT; USOCR; FIT (CN, FR, WO); EPO)	OR	ON	ON	2021/03/27 07:10 AM
L81	1	L79 AND (angle$4).clm.	(US-PGPUB; USPAT; USOCR; FIT (CN, FR, WO); EPO)	OR	ON	ON	2021/03/27 07:10 AM
L82	87	("6629983" "20010037118")	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/04/10 03:47 PM

L83	2	("6629983" "20010037118").pn.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/04/10 03:48 PM
L84	2843	A61B17/50.cpc.	(US-PGPUB; USPAT; USOCR; FIT (CN, FR, WO); FPRS; EPO)	OR	OFF	OFF	2021/04/10 10:03 PM
L85	2739	A61B17/3205.cpc.	(US-PGPUB; USPAT; USOCR; FIT (CN, FR, WO); FPRS; EPO)	OR	OFF	OFF	2021/04/10 10:03 PM
L86	11297	A61B2017/00017.cpc.	(US-PGPUB; USPAT; USOCR; FIT (CN, FR, WO); FPRS; EPO)	OR	OFF	OFF	2021/04/10 10:04 PM
L87	537	("10035007"|"10076646"|"10130390"|"10172644"|"10179229"|"10188193"|"10206743"|"10220122"|"10238812"|"10251675"|"10314378"|"10334933"|"10357641"|"10369073"|"10456321"|"10456567"|"10485983"|"10524835"|"10556096"|"10556097"|"10667985"|"10737080"|"10758261"|"10918190"|"10946191"|"10993743"|"11020577"|"1651585"|"20010023351"|"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"|"20040122447"|"20040127914"|"20040138680"|"20040143274"|"20040162565"|"20040166172"|"20040219179"|"20040236291"|"20040243149"|"20040254587"|"20040267285"|"20050037034"|"20050038448"|"20050059940"|"2005008450	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/09/26 03:02 AM

		9"|"20050148958"|"200 50203111"|"200502096 11"|"20050283176"|"20 060002960"|"20060116 674"|"20060161178"|"2 0060189964"|"2006019 1562"|"20060200099"|" 20060200172"|"200602 00173"|"20060212029"| "20060222445"|"20060 253125"|"20060264893 "|"20060269580"|"2007 0005078"|"2007004338 2"|"20070065515"|"200 70088371"|"200701238 08"|"20070139630"|"20 070154502"|"20070156 124"|"20070178121"|"2 0070198031"|"2007020 8353"|"20070239173"|" 20080027328"|"200800 91179"|"20080103563"| "20080119781"|"20080 132914"|"20080139974 "|"20080154161"|"2008 0193493"|"2008020086 1"|"20080208146"|"200 80214987"|"200802150 68"|"20080221548"|"20 080243039"|"20080287 864"|"20080300529"|"2 0080300552"|"2009004 8557"|"20090053390"|" 20090062815"|"200900 99091"|"20090099093"| "20090124985"|"20090 138026"|"20090177171 "|"20090192442"|"2009 0222023"|"2010002300 3"|"20100045427"|"201 00049177"|"201000492 10"|"20100217357"|"20 100305495"|"20110054 490"|"20110066162"|"2 0110082415"|"2011029 5273"|"20120022435"|" 20120041338"|"201201 36374"|"20130004230"| "20130018317"|"20130 066336"|"20130096577 "|"20130102978"|"2013 0144207"|"2013014428 0"|"20130158547"|"201 40079686"|"201402340 04"|"20140343481"|"20 140343574"|"20140378 887"|"20150032047"|"2 0150230824"|"2015023					

		0825"|"20150231379"|" 20150265822"|"201502 72632"|"20150290442"| "20160018100"|"20160 038183"|"20160235257 "|"20160250415"|"2017 0036002"|"2017004315 0"|"20170065801"|"201 70209894"|"201801403 29"|"20180185675"|"20 180318568"|"20190070 069"|"20190133642"|"2 0190143089"|"2019015 1637"|"20190223914"|" 20190336740"|"202000 09007"|"20200016342"| "20200171288"|"20200 171289"|"20200179220 "|"20200289161"|"2020 0316270"|"2020033858 6"|"20200390468"|"202 10085367"|"202101454 80"|"20210145481"|"20 210154453"|"20210154 454"|"20210177463"|"2 608032"|"2631583"|"27 01559"|"2712823"|"286 7214"|"2881763"|"2921 585"|"3037509"|"30855 73"|"3214869"|"346807 9"|"3476112"|"3481677" |"3505993"|"3560100"|" 3574239"|"3715838"|"3 865352"|"3866264"|"39 30598"|"3948265"|"396 4212"|"3968789"|"3977 084"|"4121388"|"41557 21"|"4170821"|"418232 9"|"4203431"|"4216233" |"4225254"|"4289158"|" 4299219"|"4342522"|"4 378804"|"4500222"|"45 60373"|"4646480"|"464 6482"|"4655743"|"4676 749"|"4706676"|"47184 67"|"4754756"|"475781 4"|"4764362"|"4795421" |"4811734"|"4836192"|" 4875287"|"4886078"|"4 887994"|"4900316"|"49 17086"|"4925450"|"494 0350"|"4957747"|"5006 004"|"5006339"|"50127 97"|"5035089"|"503743 1"|"5037432"|"5054339" |"5100412"|"5100424"|" 5119839"|"5122153"|"5 171215"|"5192269"|"52					

		07234"|"5222956"|"524 2433"|"5254109"|"5368 581"|"5387215"|"53911 51"|"5417674"|"541977 2"|"5441490"|"5460620" |"5470323"|"5484427"|" 5490736"|"5512044"|"5 562642"|"5562643"|"56 11687"|"5612797"|"567 4235"|"5676643"|"5676 648"|"5683971"|"56979 20"|"5707383"|"571378 5"|"5735833"|"5759185" |"5762640"|"5779519"|" 5800446"|"5807353"|"5 810842"|"5813416"|"58 17050"|"5834510"|"584 6215"|"5848998"|"5857 995"|"5861142"|"58738 81"|"5879323"|"588220 1"|"5885260"|"5908401" |"5919152"|"5954730"|" 5971999"|"5980555"|"6 019749"|"6023639"|"60 24733"|"6027402"|"603 9745"|"6042552"|"6080 165"|"6080166"|"60900 85"|"6120512"|"612970 1"|"6136008"|"6139553" |"6139554"|"6142155"|" 6149634"|"6159226"|"6 162218"|"6162232"|"61 65059"|"6183451"|"618 3483"|"6193589"|"6196 982"|"6231593"|"62350 39"|"6238275"|"624173 9"|"6264666"|"6283978" |"6299620"|"6306119"|" 6306147"|"6322548"|"6 322568"|"6332886"|"63 68333"|"6387103"|"640 1289"|"6409736"|"6410 599"|"6414032"|"64204 31"|"6423078"|"642375 0"|"6432113"|"6432114" |"6471712"|"6477410"|" 6482212"|"6488646"|"6 494856"|"6500183"|"65 03256"|"6508813"|"651 1486"|"6514262"|"6527 783"|"6535761"|"65372 42"|"6540757"|"656201 3"|"6562050"|"6564093" |"6565535"|"6582442"|" 6589218"|"6592595"|"6 626445"|"6629927"|"66 41591"|"6645184"|"665 2888"|"6666874"|"6673					

		081"|"6673082"|"66858 53"|"6687537"|"669585 3"|"6735470"|"6743211" |"6743215"|"6764493"|" 6800083"|"6869611"|"6 905487"|"6911031"|"69 26681"|"6938805"|"694 2649"|"6960206"|"7001 355"|"7004933"|"70449 38"|"7051907"|"705250 3"|"7069073"|"7070488" |"7083580"|"7087063"|" 7094252"|"7115275"|"7 135011"|"7153311"|"71 66086"|"7197359"|"719 8623"|"7232444"|"7241 208"|"7276051"|"72939 30"|"7314326"|"731665 7"|"7316671"|"7318828" |"7320691"|"7320801"|" 7354423"|"7364565"|"7 384405"|"7422567"|"74 27273"|"7458944"|"747 6205"|"7477938"|"7482 314"|"7485125"|"74899 89"|"7507228"|"758206 7"|"7597900"|"7597901" |"7658742"|"7678120"|" 7744582"|"7789886"|"7 837695"|"7857806"|"79 01373"|"7951156"|"799 3333"|"8025669"|"8048 089"|"8066716"|"80880 85"|"8105295"|"812863 8"|"8221437"|"8231292" |"8236008"|"8277287"|" 8337513"|"8343116"|"8 475507"|"8573874"|"85 79916"|"8721662"|"881 4836"|"8858570"|"8939 669"|"8945104"|"90501 33"|"9056193"|"907253 3"|"9468464"|"9474886" |"9486615"|"9498610"|" 9517085"|"9550052"|"9 566088"|"9642997"|"96 62482"|"9700684"|"973 1053"|"9775645"|"9775 646"|"9814868"|"98332 61"|"9861442"|"991872 7"|"9949552"|"9950147" |"9955769"|"D486915"|" D496101"|"D522360"|" D553005"|"D584151"|" D664254"|"D678783"|" D709617"|"D722172"|" D743558"|"D787054"|" D811381"|"D822845"|"					

		D825763"|"D836781"|"D851759"|"D852962"|"D861913"|"D867587"|"D868981"|"D893024"|"RE37796"|"RE42960").PN.					
L88	94	L87 AND (spiral$7 helical$4)	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/09/26 03:09 AM
L89	1	"6641591".pn.	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, CA, CH, CN, DD, DE, EA, EP, ES, FR, GB, JP, KR, OA, RU, SU, WO); EPO)	OR	ON	ON	2021/09/26 03:15 AM
L90	47	(tip AND inner AND outer AND vacuum AND abra$4 AND angl$4).clm.	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, CA, CH, CN, DD, DE, EA, EP, ES, FR, GB, JP, KR, OA, RU, SU, WO); EPO)	OR	ON	ON	2021/10/07 06:35 PM
L91	22	("3994290" | "6129469" | "6299620" | "6629983" | "6641591" | "7678120" | "7789886" | "8048089" | "8066716" | "8337513" | "20020016601" | "20030060834" | "20040153014" | "20070005078" | "20090198159" | "20100064459" | "20100262051" | "20130066336" | "20140014128" | "20140194900" | "20140202493" | "20150088050").pn. OR ("10912428").urpn. AND (PGPB | USPT | USOC).dbnm.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/10/07 06:37 PM
L92	5	((US-20100049177-A1 OR US-20170319836-A1).did. AND PGPB.dbnm.) OR ((US-8945104-B2 OR US-10357642-B2 OR US-10912428-B2).did. AND USPT.dbnm.)	(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, SK, TH, TN, TR, TW, UA, VN))	OR	ON	ON	2021/10/07 06:42 PM

L93	5	((US-20100049177-A1 OR US-20170319836-A1).did. AND PGPB.dbnm.) OR ((US-8945104-B2 OR US-10357642-B2 OR US-10912428-B2).did. AND USPT.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	2021/10/07 06:42 PM
L94	35	((US-20100049177-A1 OR US-20170319836-A1 OR US-20110082415-A1 OR US-20090177171-A1 OR US-20070239173-A1 OR US-20070208353-A1 OR US-20060200173-A1 OR US-20060200172-A1 OR US-20060189964-A1 OR US-20040254587-A1 OR US-20040186421-A1 OR US-20040143274-A1 OR US-20040097967-A1 OR US-20020016601-A1 OR US-20010037118-A1).did. AND PGPB.dbnm.) OR ((US-8945104-B2 OR US-10357642-B2 OR US-10912428-B2 OR US-8337513-B2 OR US-8066716-B2 OR US-8048089-B2 OR US-7789886-B2 OR US-7678120-B2 OR US-7364565-B2 OR US-7153311-B2 OR US-7044938-B2 OR US-6641591-B1 OR US-6926681-B1 OR US-6629983-B1 OR US-6511486-B2 OR US-6387103-B2 OR US-6299620-B1 OR US-6277128-B1 OR US-5279543-A OR US-6162232-A).did. AND USPT.dbnm.)	(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, SK, TH, TN, TR, TW, UA, VN))	OR	ON	ON	2021/10/07 07:27 PM
L95	117	("2701559" | "2712823" | "2867214" | "2881763" | "2921585" | "3964212" | "4378804" | "4957747" | "5012797" | "5037431" | "5037432" | "5100412" | "5207234" | "5800446"	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/10/07 08:09 PM

		| "5810842" | "5971999" | "6042552").pn. OR ("6241739").urpn. AND (PGPB | USPT | USOC).dbnm.					
L96	117	("2701559" | "2712823" | "2867214" | "2881763" | "2921585" | "3964212" | "4378804" | "4957747" | "5012797" | "5037431" | "5037432" | "5100412" | "5207234" | "5800446" | "5810842" | "5971999" | "6042552").pn. OR ("6241739").urpn. AND (PGPB | USPT | USOC).dbnm.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/10/08 03:12 PM
L97	86	("2701559" | "2712823" | "2867214" | "2881763" | "2921585" | "3964212" | "4121388" | "4378804" | "4646482" | "4957747" | "5012797" | "5035089" | "5037431" | "5037432" | "5100412" | "5207234" | "5800446" | "5810842" | "5971999" | "6042552" | "6423078").pn. OR ("6500183").urpn. AND (PGPB | USPT | USOC).dbnm.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/10/08 03:16 PM
L98	1254	L54 AND (slop$4 angl$4)	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/10/08 03:18 PM
L99	3864	L54 AND (slop$4 angl$4)	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, CA, CH, CN, DD, DE, EA, EP, ES, FR, GB, JP, KR, OA, RU, SU, WO); EPO)	OR	ON	ON	2021/10/08 03:18 PM
L100	1685	L54 AND ((tip surface face) WITH (slop$4 angl$4))	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, CA, CH, CN, DD, DE, EA, EP, ES, FR, GB, JP, KR, OA, RU, SU, WO); EPO)	OR	ON	ON	2021/10/08 03:18 PM
L101	404	L54 AND ((tip surface face) WITH (slop$4 angl$4)) AND (vacuum$4 suction$4 aspirat$4 negative ADJ pressure)	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, CA, CH, CN, DD, DE, EA, EP, ES, FR, GB, JP, KR, OA, RU, SU, WO); EPO)	OR	ON	ON	2021/10/08 03:19 PM
L102	18936	(derm$7 microderm$7) AND ((tip surface face) WITH (slop$4 angl$4)) AND (vacuum$4 suction$4 aspirat$4	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, CA, CH, CN, DD, DE, EA, EP, ES, FR, GB, JP, KR, OA, RU,	OR	ON	ON	2021/10/08 03:22 PM

		negative ADJ pressure)	SU, WO); EPO)				
L103	18936	(derm$7 microderm$7) AND ((tip surface face) WITH (slop$4 angl$4)) AND (vacuum$4 suction$4 aspirat$4 (negative ADJ pressure))	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, CA, CH, CN, DD, DE, EA, EP, ES, FR, GB, JP, KR, OA, RU, SU, WO); EPO)	OR	ON	ON	2021/10/08 03:22 PM
L104	3642	(derm$7 microderm$7) AND (abrad$4 abras$4) AND ((tip surface face) WITH (slop$4 angl$4)) AND (vacuum$4 suction$4 aspirat$4 (negative ADJ pressure))	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, CA, CH, CN, DD, DE, EA, EP, ES, FR, GB, JP, KR, OA, RU, SU, WO); EPO)	OR	ON	ON	2021/10/08 03:23 PM
L105	1735	(derm$7 microderm$7) AND (abrad$4 abras$4) AND ((tip surface face) WITH (slop$4 angl$4)) AND (vacuum$4 suction$4 aspirat$4 (negative ADJ pressure))	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/10/08 03:31 PM
L106	1865	(derm$9 microderm$9) AND (abrad$4 abras$4) AND ((tip surface face) WITH (slop$4 angl$4)) AND (vacuum$4 suction$4 aspirat$4 (negative ADJ pressure))	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/10/08 03:33 PM
L107	5	("6171275" | "20070156124" | "20100049177" | "20110046539" | "20130345661").pn. OR ("9186490").urpn. AND (PGPB | USPT | USOC).dbnm.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/10/08 05:43 PM
L108	4	("20040092959" | "20090157094" | "20130002411" | "20130158547").pn. OR ("10456321").urpn. AND (PGPB | USPT | USOC).dbnm.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/10/08 05:47 PM
L109	15	13/840,889	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, CA, CH, CN, DD, DE, EA, EP, ES, FR, GB, JP, KR, OA, RU, SU, WO); EPO)	OR	ON	ON	2021/10/09 08:22 PM
L110	8	("8573874" | "8864401" | "20090062815" |	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/10/09 08:23 PM

		"20110123252" | "20110190672").pn. OR ("9565920").urpn. AND (PGPB | USPT | USOC).dbnm.					
L111	197	L87 AND (angle$4 slop$4)	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/10/09 08:34 PM
L112	11	("11202657"|"11213321"|"11224728"|"11241357"|"20060278661"|"20070093694"|"20080200863"|"20130261534"|"20210145479"|"20210353922"|"6635035").PN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/05/06 04:33 AM
L113	0	(hydrafacial).as.	(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	2022/09/02 12:05 AM
L114	2	("9550052" "11446477").pn.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2023/10/04 04:52 AM
L115	11	("20010049511" "20030093089" "20030018252" "3865352" "6277128" "6432114" "6695853" "7232444" "20060116674" "3930598" "6162232").pn.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2023/10/04 05:01 AM
L116	46	(Artificial Intelligence) Similar to: 18/094,884 with 0 CPC Selections and 0 Text Selections Text: (US-11446477-B2 OR US-9550052-B2 OR US-20190336740-A1 OR US-20230158282-A1 OR US-20070156124-A1 OR US-9662482-B2 OR US-10357642-B2 OR US-20170319836-A1 OR US-10357641-B2 OR US-11612726-B2	(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))	OR	ON	ON	2023/10/04 05:32 AM

		OR US-20150231379-A1 OR US-20150290442-A1 OR US-8048089-B2 OR US-20170319835-A1 OR US-20210154455-A1 OR US-9814868-B2 OR US-11547840-B2 OR US-20150272623-A1 OR US-9474886-B2 OR US-20120022435-A1 OR US-20210154454-A1 OR US-20170245876-A1 OR EP-3795204-A1 OR US-20210154453-A1 OR US-10251675-B2 OR US-20140343574-A1 OR US-11744999-B2 OR US-9566088-B2 OR EP-3237055-B1 OR WO-2023064718-A1 OR US-9498610-B2 OR US-20160256671-A1 OR US-20170065801-A1 OR US-20190223914-A1 OR US-10035007-B2 OR US-20210145479-A1 OR US-20150230824-A1 OR EP-3237055-A1 OR WO-2016106396-A1 OR US-9468464-B2 OR US-20150230825-A1 OR CA-2971728-A1 OR US-9775646-B2 OR US-20180318568-A1 OR US-11717326-B2 OR WO-2022081212-A1 OR US-8337513-B2 OR EP-4179986-A1 OR US-20070208353-A1 OR US-20040143274-A1).did.					
L117	386	("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"	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2023/10/04 05:35 AM

		| "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" | "5612797" | "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" |					

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		D499207"|"D499841"|"D502288"|"D502289"|"D502569"|"D517699"|"D522360"|"D533962"|"D536481"|"D545207"|"D553005"|"D557611"|"D584151"|"D625198"|"D639164"|"D664254"|"D676764"|"D678783"|"D680437"|"D697404"|"D709617"|"D722172"|"D734154"|"D743269"|"D743558"|"D765512"|"D772481"|"D782881"|"D787054"|"D811225"|"D811381"|"D822845"|"D825763"|"D833283"|"D836781"|"D851759"|"D852962"|"D861913"|"D867587"|"D868981"|"D873430"|"D873481"|"D886370"|"D886372"|"D887571"|"D893024"|"D908282"|"D917290"|"D927008"|"D928977"|"RE37796"|"RE42960"). PN.					
L119	1133	A61B17/3205.cpc.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2023/10/04 08:27 PM
L120	189	L119 AND (console manifold)	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2023/10/04 08:27 PM
L121	1764	A61B2017/320004.cpc.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2023/10/04 08:28 PM
L122	298	L121 AND (console manifold)	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2023/10/04 08:29 PM
L123	0	hyrdafacial.as.	(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	2023/10/04 09:25 PM
L124	5	hydrafacial.as.	(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,	OR	ON	ON	2023/10/04 09:25 PM

			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)				

PE2E SEARCH - Search History (Interference)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	British Equivalents	Time Stamp
N66	5	(tip and (hand$8) and (passage hole lumen channel) and periph$6 and inner and outer and spiral$7 and (pattern shape) and abra$7 and skin).clm.	(US-PGPUB; USPAT)	OR	OFF	OFF	2018/09/12 03:36 PM
N67	5	(tip and (hand$8) and (passage hole lumen channel) and periph$6 and inner and outer and spiral$7 and (pattern shape) and abra$7).clm.	(US-PGPUB; USPAT)	OR	OFF	OFF	2018/09/12 03:37 PM
N68	5	((tip cap) and (hand$8) and (passage hole lumen channel) and periph$6 and inner and outer and spiral$7 and (pattern shape) and abra$7).clm.	(US-PGPUB; USPAT)	OR	OFF	OFF	2018/09/12 03:38 PM
N69	8	((tip cap) and (hand$8) and (passage hole lumen channel) and inner and outer and spiral$7 and (pattern shape) and abra$7).clm.	(US-PGPUB; USPAT)	OR	OFF	OFF	2018/09/12 03:38 PM
N70	13	((tip cap) and (hand$8) and (passage hole lumen channel) and inner and outer and spiral$7 and abra$7).clm.	(US-PGPUB; USPAT)	OR	OFF	OFF	2018/09/12 03:39 PM
N71	19	((hand$8) and (passage hole lumen channel) and inner and outer and spiral$7 and abra$7).clm.	(US-PGPUB; USPAT)	OR	OFF	OFF	2018/09/12 03:39 PM
N72	7	((hand$8) and (passage hole lumen channel) and (vacuum$4 suction$4) and inner	(US-PGPUB; USPAT)	OR	OFF	OFF	2018/09/12 03:41 PM

		and outer and spiral$7 and abra$7).clm.					
N73	10	((hand$8) and (passage hole lumen channel) and (fluid debris) and inner and outer and spiral$7 and abra$7).clm.	(US-PGPUB; USPAT)	OR	OFF	OFF	2018/09/12 03:41 PM
N74	23	((hand$8) and (passage hole lumen channel) and (fluid debris) and spiral$7 and abra$7).clm.	(US-PGPUB; USPAT)	OR	OFF	OFF	2018/09/12 03:42 PM
N76	5	("4940350" "10172644" "10179229" "20060222445" "20180318568").pn.	(US-PGPUB; USPAT)	OR	OFF	OFF	2019/03/02 11:00 AM
N77	5	((tip cap) and skin and hand$7 and (passage hole lumen channel) and fluid and inner and outer and spiral$7 and abra$7).clm.	(US-PGPUB; USPAT)	OR	OFF	OFF	2019/03/02 11:11 AM
N78	7	((tip cap) and hand$7 and (passage hole lumen channel) and fluid and inner and outer and spiral$7 and abra$7).clm.	(US-PGPUB; USPAT)	OR	OFF	OFF	2019/03/02 11:11 AM
N79	13	((tip cap) and hand$7 and (passage hole lumen channel) and inner and outer and spiral$7 and abra$7).clm.	(US-PGPUB; USPAT)	OR	OFF	OFF	2019/03/02 11:12 AM
N80	15	((tip cap) and hand$7 and (passage hole lumen channel) and (inner outer) and spiral$7 and abra$7).clm.	(US-PGPUB; USPAT)	OR	OFF	OFF	2019/03/02 11:13 AM
N81	25	((tip cap) and hand$7 and (passage hole lumen channel) and spiral$7 and abra$7).clm.	(US-PGPUB; USPAT)	OR	OFF	OFF	2019/03/02 11:13 AM
N82	18	((tip cap) and hand$7 and (vacuum$4 suction$4) and spiral$7 and abra$7).clm.	(US-PGPUB; USPAT)	OR	OFF	OFF	2019/03/02 11:15 AM
N83	3	(tip AND body AND skin AND treat$4 AND inner AND outer AND abra$7 AND spiral$7 AND (vacuum$4 suction$4	(US-PGPUB; USPAT)	OR	ON	ON	2022/05/21 05:48 PM

		aspirat$4) AND (hole opening aperture recess lumen) AND (handle handpiece) AND angle$4 AND axis).clm.					
N84	3	(tip AND skin AND treat$4 AND inner AND outer AND abra$7 AND spiral$7 AND (vacuum$4 suction$4 aspirat$4) AND (hole opening aperture recess lumen) AND (handle handpiece) AND angle$4 AND axis).clm.	(US-PGPUB; USPAT)	OR	ON	ON	2022/05/21 05:48 PM
N85	3	(tip AND skin AND treat$4 AND inner AND outer AND abra$7 AND spiral$7 AND (vacuum$4 suction$4 aspirat$4) AND (hole opening aperture recess lumen) AND (handle handpiece) AND angle$4).clm.	(US-PGPUB; USPAT)	OR	ON	ON	2022/05/21 05:48 PM
N86	3	(tip AND treat$4 AND inner AND outer AND abra$7 AND spiral$7 AND (vacuum$4 suction$4 aspirat$4) AND (hole opening aperture recess lumen) AND (handle handpiece) AND angle$4).clm.	(US-PGPUB; USPAT)	OR	ON	ON	2022/05/21 05:49 PM
N87	3	(tip AND inner AND outer AND abra$7 AND spiral$7 AND (vacuum$4 suction$4 aspirat$4) AND (hole opening aperture recess lumen) AND (handle handpiece) AND angle$4).clm.	(US-PGPUB; USPAT)	OR	ON	ON	2022/05/21 05:49 PM
N88	10	(tip AND inner AND outer AND abra$7 AND spiral$7 AND (vacuum$4 suction$4 aspirat$4) AND (hole opening aperture recess lumen) AND (handle handpiece)).clm.	(US-PGPUB; USPAT)	OR	ON	ON	2022/05/21 05:49 PM

INFORMATION DISCLOSURE STATEMENT

First Inventor: Ignon, Roger	**Conf. No.:** 9223
App. No.: 18/094884	**Filed:** January 9, 2023
Examiner: Unassigned	**Art Unit:** 3771
Title: DEVICES AND METHODS FOR TREATING SKIN	

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 668, 1004-1095, and 1110-1118 are of record in U.S. patent application No. 17/165,820, filed February 2, 2021, which is relied upon for an earlier filing date under 35 USC 120. Accordingly, copies of references numbered 1 to 668, 1004-1095, and 1110-1118 are not submitted pursuant to 37 CFR 1.98(d).

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.

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.

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

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
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 (Pat. No. 11,446,477)	July 19, 2019	DEVICES AND METHODS FOR TREATING SKIN
EDGE.005C8	17/165,820 (Pat. No. 11,547,840)	Feb. 2, 2021	DEVICES AND METHODS FOR TREATING SKIN
EDGE.005C9	17/165,807 (Pat. No. 11,612,726)	Feb. 2, 2021	DEVICES AND METHODS FOR TREATING SKIN
EDGE.005C10	***18/094,884 (present application)***	***Jan. 9, 2023***	***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.044C3	17/952,569	Sep. 26, 2022	DEVICES, SYSTEMS, AND METHODS FOR TREATING THE SKIN

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

Attorney Docket No.	App. No. (Pat. No., if appl.)	Filing Date	Title
EDGE.044C4	17/952,665	Sep. 26, 2022	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
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 (Pat. No. 11,717,326)	Apr. 5, 2019	DEVICES, SYSTEMS AND METHODS FOR TREATING THE SKIN
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EDGE.077C4	17/952,676	Sep. 26, 2022	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 (Pat. No. 11,517,350)	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

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Attorney Docket No.	App. No. (Pat. No., if appl.)	Filing Date	Title
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.131NP	18/035,723	May 5, 2023	DEVICES, SYSTEMS AND METHODS FOR TREATING THE SKIN
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
EDGE.180DA	29/811,070	Oct. 11, 2021	SKIN TREATMENT TIP
EDGE.205DA	29/,826,153	Feb. 9, 2022	DUAL TREATING DEVICE FOR TREATING ACNE OR WRINKLES
EDGE.205DC1	29/854,067	Sep. 21, 2022	TREATMENT DEVICE FOR SKIN
EDGE.212DA	29/884,441	Feb. 10, 2023	SKIN TREATMENT TIP

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 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: August 28, 2023

By: /Daniel Mittelstein/
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58167084

/CHRISTIAN D KNAUSS/
10/04/2023

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

INFORMATION DISCLOSURE STATEMENT

First Inventor: Ignon, Roger	**Conf. No.:** 9223
App. No.: 18/094884	**Filed:** January 9, 2023
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

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.

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
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

Attorney Docket No.	App. No. (Pat. No., if appl.)	Filing Date	Title
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 (Pat. No. 11,446,477)	July 19, 2019	DEVICES AND METHODS FOR TREATING SKIN
EDGE.005C8	17/165,820 (Pat. No. 11,547,840)	Feb. 2, 2021	DEVICES AND METHODS FOR TREATING SKIN
EDGE.005C9	17/165,807 (Pat. No. 11,612,726)	Feb. 2, 2021	DEVICES AND METHODS FOR TREATING SKIN
EDGE.005C10	***18/094,884 (present application)***	***Jan. 9, 2023***	***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.044C3	17/952,569	Sep. 26, 2022	DEVICES, SYSTEMS, AND METHODS FOR TREATING THE SKIN
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EDGE.212DA	29/884,441	Feb. 10, 2023	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

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Respectfully submitted,

KNOBBE, MARTENS, OLSON & BEAR, LLP

Dated: September 29, 2023

By: / Daniel Mittelstein /
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Registration No. 79,750
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UNITED STATES
PATENT AND TRADEMARK OFFICE

P.O. Box 1450
Alexandria, VA 22313 - 1450
www.uspto.gov

ELECTRONIC ACKNOWLEDGEMENT RECEIPT

APPLICATION #	RECEIPT DATE / TIME	ATTORNEY DOCKET #
18/094,884	**09/29/2023 03:42:44 PM ET**	**EDGE.005C10**

Title of Invention

DEVICES AND METHODS FOR TREATING SKIN

Application Information

APPLICATION TYPE	Utility - Nonprovisional Application under 35 USC 111(a)	PATENT #	-
CONFIRMATION #	9223	FILED BY	Alisa Hocking
PATENT CENTER #	62901528	FILING DATE	01/09/2023
CUSTOMER #	20995	FIRST NAMED INVENTOR	Roger Ignon
CORRESPONDENCE ADDRESS	-	AUTHORIZED BY	Daniel Mittelstein

Documents

TOTAL DOCUMENTS: 3

DOCUMENT	PAGES	DESCRIPTION	SIZE (KB)
IDS.pdf	5	Transmittal Letter	131 KB
SB08.pdf	1	Information Disclosure Statement (IDS) Form (SB08)	112 KB
FOR_WO_2023-164572.pdf	27	Foreign Reference	2502 KB

Digest

DOCUMENT	MESSAGE DIGEST(SHA-512)
IDS.pdf	987D71BC4CB3728CA00759545EE1E8A717DB70FF565AD6158

	A48E24776C264DB9B485DF0DAF471E726258BAD042F28D011 19CE503B1FFCA3DA0880DD8A58F02B
SB08.pdf	8A747A1F435B717A508A328DBD3F6033570AF45E3BE63005A1 1D2B6791C95DA55CC46010EDB5E3367B1B823578A1FDDA35 D6D41F830A7C6B3BF2FF5273A19F29
FOR_WO_2023-164572.pdf	B4EE15D357EC26EC7A348F219D6F68B2315E8D1683F6EBE4B 19A1B348A4423CB42D636A8C06FCDBDF6BC6979EB28DBB49 DAAD566668C51ACF8A94410C149AA8F

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 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/08 Equivalent

INFORMATION DISCLOSURE STATEMENT BY APPLICANT	Application No.	18/094884
	Filing Date	January 9, 2023
	First Named Inventor	Ignon, Roger
	Art Unit	3771
(Multiple sheets used when necessary)	Examiner	Christian D. Knauss
SHEET 1 OF 1	Attorney Docket No.	EDGE.005C10

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	11,744,999	09-05-2023	Ignon et al.	
	2	2005/0245180	11-03-2005	Suissa 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]**
	3	WO 2023/164572	08-31-2023	Hydrafacial 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]**

58338217

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: ECOMM.AUTH/ECOMM.WTDW
Doc Description: Internet Communications Authorization/Internet Communications Authorization Withdrawal

PTO/SB/439 (11-15)

AUTHORIZATION FOR INTERNET COMMUNICATIONS IN A PATENT APPLICATION OR REQUEST TO WITHDRAW AUTHORIZATION FOR INTERNET COMMUNICATIONS		
	Application No.	18/094884
	Filing Date	January 9, 2023
	First Named Inventor	Roger Ignon
	Art Unit	3771
	Examiner Name	Christian D. Knauss
	Practitioner Docket No.	EDGE.005C10

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

September 20, 2023 — 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.
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.

Electronic Acknowledgement Receipt

EFS ID:	48613600
Application Number:	18094884
International Application Number:	
Confirmation Number:	9223
Title of Invention:	DEVICES AND METHODS FOR TREATING SKIN
First Named Inventor/Applicant Name:	Roger Ignon
Customer Number:	20995
Filer:	Theodore G. Papagiannis/Jayne Clodfelter
Filer Authorized By:	Theodore G. Papagiannis
Attorney Docket Number:	EDGE.005C10
Receipt Date:	20-SEP-2023
Filing Date:	09-JAN-2023
Time Stamp:	13:41:19
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 Authorization	EDGE005C10.pdf	185855 bc2fa7344a3b2b6411929b4f88f4cca8ffbbd180	no	2
Warnings:					

Information:	
Total Files Size (in bytes):	185855

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

P.O. Box 1450
Alexandria, VA 22313 - 1450
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ELECTRONIC ACKNOWLEDGEMENT RECEIPT

APPLICATION #	RECEIPT DATE / TIME	ATTORNEY DOCKET #
18/094,884	**08/28/2023 06:42:04 PM ET**	**EDGE.005C10**

Title of Invention

DEVICES AND METHODS FOR TREATING SKIN

Application Information

APPLICATION TYPE	Utility - Nonprovisional Application under 35 USC 111(a)	PATENT #	-
CONFIRMATION #	9223	FILED BY	Amy Hill
PATENT CENTER #	62692955	FILING DATE	01/09/2023
CUSTOMER #	20995	FIRST NAMED INVENTOR	Roger Ignon
CORRESPONDENCE ADDRESS	-	AUTHORIZED BY	Daniel Mittelstein

Documents

TOTAL DOCUMENTS: 19

DOCUMENT		PAGES	DESCRIPTION	SIZE (KB)
EDGE-005C10_IDS.pdf		45	-	516 KB
EDGE-005C10_IDS-TRAN.LET.pdf	(1-5)	5	Transmittal Letter	121 KB
EDGE-005C10_IDS-IDS.pdf	(6-45)	40	Information Disclosure Statement (IDS) Form (SB08)	430 KB
FOR_EP_0479121A1.pdf		9	Foreign Reference	999 KB
FOR_EU_8880371-0001.pdf		6	Foreign Reference	861 KB
FOR_GB_2585500A.pdf		14	Foreign Reference	2113 KB

FOR_JP_D1609357_wMT.pdf	8	Foreign Reference	722 KB
FOR_CA_2784209C.pdf	31	Foreign Reference	3590 KB
FOR_JP_2013-215621_wMT.pdf	62	Foreign Reference	3444 KB
FOR_WO_2004-108091A2.pdf	39	Foreign Reference	6130 KB
FOR_CN_1708261_wMT.pdf	115	Foreign Reference	10045 KB
FOR_WO_1997-000707A1.pdf	61	Foreign Reference	7691 KB
FOR_WO_2010-151704A1_Part2.pdf	55	Foreign Reference	3598 KB
FOR_WO_2010-022396A2.pdf	88	Foreign Reference	10420 KB
FOR_WO_2004-037287A2.pdf	101	Foreign Reference	15204 KB
FOR_WO_2023-064718A1.pdf	59	Foreign Reference	6724 KB
FOR_WO_2009-086182A1.pdf	241	Foreign Reference	22936 KB
FOR_WO_2010-151704A1_Part1.pdf	202	Foreign Reference	25582 KB
NPL_Beautimate_adjustable-hydra-needle-2023.pdf	4	Non Patent Literature	321 KB
NPL_Hydrafacial-hydropeel-vortex-fusion-tips_August2023.pdf	7	Non Patent Literature	469 KB

Digest

DOCUMENT	MESSAGE DIGEST(SHA-512)
EDGE-005C10_IDS.pdf	A620BD9E26E3BF08C4ADBC907CCE4F2C0C889D8ECF227FE7BE6A2D5EF9DFAAEFF9575859805DCCB3C583373312065F671D1B762624A0B51428C5958D2CDADF90
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FOR_CA_2784209C.pdf	399C7C02C6CC6872E47FCC520C638FDBAA6E88651A01A8EBC0C44F495DC014EC85731A5F06349898065DA0CBB19898C0DFDBB2C7429C3CAA26AE765A3ADDCAF5
FOR_JP_2013-215621_wMT.pdf	98ED948F52CEBDEEDA408055FBCB5FD19DB27984EE8FE590320DE60B3BBFC4724E28CE087354C41FA37667DCD45C2DDF038836A2C1933B7F8D8E7560DA2FD493

FOR_WO_2004-108091A2.pdf	FC0A41A3D551550C2DBC90492E5D2CD0924DECB224316C7B4FF58545EB7A71480A50EA6EEF3391A99A9E60B98E9A90889A38F7C0D934DA853197C8246A805094
FOR_CN_1708261_wMT.pdf	E193258F97A55639E1F719219C991F91F8FFCC9082B3A1EDAC7016B4D2B80A228824DF98290A8AD3DB98E2525478C86AD5FE7BAE6118D5D7DB781EB6C85CC0A2
FOR_WO_1997-000707A1.pdf	E81B53AD6863355AEBE18930C9C067568A957469E74BAEFC6B326F2772ED4583B258A5405932277534F637C3F786062E98B90750FAF57E8E882B4935DBAB59AA
FOR_WO_2010-151704A1_Part2.pdf	2CD08273474A65BFAB010091DE84852BECFA5B5C22E6A7CB2AA99BFCE37761EF22201F63A303DDC409BE461A1D46ED08FEDAE04FC16B7DF348DCB8009B3A4750
FOR_WO_2010-022396A2.pdf	89E017521275BCA68521057D6AA023DD40CC74371AA313E04FEF2B61662E7891DBF690DF503CF12F078EE1CDC4CCEF506DC03A6F31650972D8596CB2FB499B41
FOR_WO_2004-037287A2.pdf	8FA43E5253360635F956FEB29F95C4A847267F1C952F03C12FA9C5672BD2538932457E8FAF298E7EFDF1FA420AFF4B1AADC49B2D3E00E75FFDDED7B74D75C5F9
FOR_WO_2023-064718A1.pdf	6D61C918AB61AFCDE2C1B7E4069B1C4E2B9911DABC6CC3BD4B3284272D86FCB86630957A90FC303FB107762D2BE3F500BF93735546A2C9CD7F4B49B3788E0882
FOR_WO_2009-086182A1.pdf	DA911EBA4037C0436605230BF388366EC9A8E37CDDC3AFB96E5FD31AAAEE78EFBEE4926C1D7CED35B021BE9DEA5C0981AE5CCA2223369862297C1DC96FC8CCBF
FOR_WO_2010-151704A1_Part1.pdf	C9E7EA275618EEB9B8446546D3E3B7C8C240689DD188AB7FD1FE8D039AAD525CEFC88CA7AEA0E98F358FA5EB257A768D2DFEEF0DD8E3D9CB04B55ACBD476F3D6
NPL_Beautimate_adjustable-hydra-needle-2023.pdf	4809D2F84AE18736AE1240DD105FF0DF9C5171260AAA9B583773007504C402B9F74FB142EDF4A592317B0C4192D6A763CE3F68AEF6203F05E093EF46CFBCFE35

NPL_Hydrafacial-hydropeel-vortex-fusion-tips_August2023.pdf	1878424040D385186A96C0DE6BA72EEDB1447B9CDF2A9C9B4478BDD8C36958DF253854653595ED0EFD87E6E29E0F5B0C3497344A87C4B509A005CDC1F1B1D964

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New Applications Under 35 U.S.C. 111

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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

First Inventor: Ignon, Roger	**Conf. No.:** 9223
App. No.: 18/094884	**Filed:** January 9, 2023
Examiner: Unassigned	**Art Unit:** 3771
Title: DEVICES AND METHODS FOR TREATING SKIN	

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 668, 1004-1095, and 1110-1118 are of record in U.S. patent application No. 17/165,820, filed February 2, 2021, which is relied upon for an earlier filing date under 35 USC 120. Accordingly, copies of references numbered 1 to 668, 1004-1095, and 1110-1118 are not submitted pursuant to 37 CFR 1.98(d).

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.

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.

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
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 (Pat. No. 11,446,477)	July 19, 2019	DEVICES AND METHODS FOR TREATING SKIN
EDGE.005C8	17/165,820 (Pat. No. 11,547,840)	Feb. 2, 2021	DEVICES AND METHODS FOR TREATING SKIN
EDGE.005C9	17/165,807 (Pat. No. 11,612,726)	Feb. 2, 2021	DEVICES AND METHODS FOR TREATING SKIN
EDGE.005C10	***18/094,884 (present application)***	***Jan. 9, 2023***	***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.044C3	17/952,569	Sep. 26, 2022	DEVICES, SYSTEMS, AND METHODS FOR TREATING THE SKIN

Attorney Docket No.	App. No. (Pat. No., if appl.)	Filing Date	Title
EDGE.044C4	17/952,665	Sep. 26, 2022	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
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 (Pat. No. 11,717,326)	Apr. 5, 2019	DEVICES, SYSTEMS AND METHODS FOR TREATING THE SKIN
EDGE.077C3	17/952,721	Sep. 26, 2022	DEVICES, SYSTEMS, AND METHODS FOR TREATING THE SKIN
EDGE.077C4	17/952,676	Sep. 26, 2022	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 (Pat. No. 11,517,350)	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

Attorney Docket No.	App. No. (Pat. No., if appl.)	Filing Date	Title
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.131NP	18/035,723	May 5, 2023	DEVICES, SYSTEMS AND METHODS FOR TREATING THE SKIN
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
EDGE.180DA	29/811,070	Oct. 11, 2021	SKIN TREATMENT TIP
EDGE.205DA	29/,826,153	Feb. 9, 2022	DUAL TREATING DEVICE FOR TREATING ACNE OR WRINKLES
EDGE.205DC1	29/854,067	Sep. 21, 2022	TREATMENT DEVICE FOR SKIN
EDGE.212DA	29/884,441	Feb. 10, 2023	SKIN TREATMENT TIP

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 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: August 28, 2023

By: /Daniel Mittelstein/
Daniel M. Mittelstein
Registration No. 79,750
Registered Practitioner
(949) 760-0404

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT		
	Application No.	18/094884
	Filing Date	January 9, 2023
	First Named Inventor	Ignon, Roger
	Art Unit	3771
(Multiple sheets used when necessary)	Examiner	Unassigned
SHEET 1 OF 40	Attorney Docket No.	EDGE.005C10

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	RE 37,796	07-23-2002	Henley	
	2	1,651,585	12-06-1927	Clair	
	3	2,608,032	08-26-1952	Garver	
	4	2,631,583	03-17-1953	Lavergne	
	5	2,701,559	02-05-1955	Cooper	
	6	2,712,823	07-12-1955	Kurtin	
	7	2,867,214	01-06-1959	Wilson	
	8	2,881,763	04-14-1959	Robbins	
	9	2,921,585	01-19-1960	Schumann	
	10	3,037,509	06-05-1962	Schutz	
	11	3,085,573	04-16-1963	Meyer et al.	
	12	3,214,869	11-02-1965	Stryker	
	13	3,468,079	09-23-1969	Kaufman	
	14	3,476,112	11-04-1969	Elstein	
	15	3,481,677	12-02-1969	Abrahamson	
	16	3,505,993	04-14-1970	Lewes et al.	
	17	3,574,239	04-13-1971	Sollerud	
	18	3,560,100	02-02-1971	Spatz	
	19	3,715,838	02-13-1973	Young et al.	
	20	3,865,352	02-11-1975	Nelson et al.	
	21	3,866,264	02-18-1975	Engquist	
	22	3,930,598	01-06-1976	Slagle	
	23	3,948,265	04-06-1976	Al Ani	
	24	3,964,212	06-22-1976	Karden	
	25	3,968,789	07-13-1976	Simoncini	
	26	3,977,084	08-31-1976	Sloan	
	27	4,121,388	10-24-1978	Wilson	
	28	4,155,721	05-22-1979	Fletcher	
	29	4,170,821	10-16-1979	Booth	

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U.S. PATENT DOCUMENTS					
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	30	4,182,329	01-08-1980	Smit et al.	
	31	4,203,431	05-20-1980	Abura et al.	
	32	4,216,233	08-05-1980	Stein	
	33	4,225,254	09-30-1980	Holberg et al.	
	34	4,289,158	09-15-1981	Nehring	
	35	4,299,219	11-10-1981	Norris, Jr.	
	36	4,342,522	08-03-1982	Mackles	
	37	4,378,804	04-05-1983	Cortese	
	38	4,500,222	02-19-1985	Clading-Boel	
	39	4,560,373	12-24-1985	Sugino et al.	
	40	4,646,480	03-03-1987	Williams	
	41	4,646,482	03-03-1987	Chitjian	
	42	4,655,743	04-07-1987	Hyde	
	43	4,676,749	06-30-1987	Mabille	
	44	4,706,676	11-17-1987	Peck	
	45	4,718,467	01-12-1988	Di Gianfilippo et al.	
	46	4,754,756	07-05-1988	Shelanski	
	47	4,757,814	07-19-1988	Wang et al.	
	48	4,764,362	08-16-1988	Barchas	
	49	4,795,421	01-03-1989	Blasius, Jr. et al.	
	50	4,811,734	03-14-1989	McGurk-Burleson et al	
	51	4,836,192	06-06-1989	Abbate	
	52	4,875,287	10-24-1989	Creasy et al.	
	53	4,886,078	12-12-1989	Shiffman	
	54	4,887,994	12-12-1989	Bedford	
	55	4,900,316	02-13-1990	Yamamoto	
	56	4,917,086	04-17-1990	Feltovich et al.	
	57	4,925,450	05-15-1990	Imonti et al.	
	58	4,940,350	07-10-1990	Kim	

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U.S. PATENT DOCUMENTS					
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	59	4,957,747	09-18-1990	Stiefel	
	60	5,006,004	04-09-1991	Dirksing et al.	
	61	5,006,339	04-09-1991	Bargery et al.	
	62	5,012,797	05-07-1991	Clarke	
	63	5,035,089	07-30-1991	Tillman et al.	
	64	5,037,431	08-06-1991	Summers et al.	
	65	5,037,432	08-06-1991	Molinari	
	66	5,054,339	10-08-1991	Yacowitz	
	67	5,100,412	03-31-1992	Rosso	
	68	5,100,424	03-31-1992	Jang	
	69	5,119,839	06-09-1992	Rudolph	
	70	5,122,153	06-16-1992	Harrel	
	71	5,171,215	12-15-1992	Flanagan	
	72	5,192,269	03-09-1993	Poli et al.	
	73	5,207,234	05-04-1993	Rosso	
	74	5,222,956	06-29-1993	Waldron	
	75	5,242,433	09-07-1993	Smith et al.	
	76	5,254,109	10-19-1993	Smith et al.	
	77	5,368,581	11-29-1994	Smith et al.	
	78	5,387,215	02-07-1995	Fisher	
	79	5,391,151	02-21-1995	Wilmot	
	80	5,417,674	05-23-1995	Smith et al.	
	81	5,419,772	05-30-1995	Teitz et al.	
	82	5,441,490	08-15-1995	Svedman	
	83	5,460,620	10-24-1995	Smith et al.	
	84	5,470,323	11-28-1995	Smith et al.	
	85	5,484,427	01-16-1996	Gibbons	
	86	5,490,736	02-13-1996	Haber et al.	
	87	5,512,044	04-30-1996	Duer	

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U.S. PATENT DOCUMENTS					
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	88	5,562,642	10-08-1996	Smith et al.	
	89	5,562,643	10-08-1996	Johnson	
	90	5,611,687	03-18-1997	Wagner	
	91	5,612,797	03-18-1997	Clarke	
	92	5,658,583	08-19-1997	Zhang et al.	
	93	5,674,235	10-07-1997	Parisi	
	94	5,676,643	10-14-1997	Cann et al.	
	95	5,676,648	10-14-1997	Henley	
	96	5,683,971	11-04-1997	Rose et al.	
	97	5,697,920	12-16-1997	Gibbons	
	98	5,707,383	01-13-1998	Bays	
	99	5,713,785	02-03-1998	Nishio	
	100	5,735,833	04-07-1998	Olson	
	101	5,759,185	06-02-1998	Grinberg	
	102	5,762,640	06-09-1998	Kajiwara et al.	
	103	5,779,519	07-14-1998	Oliver	
	104	5,800,446	09-01-1998	Banuchi	
	105	5,807,353	09-15-1998	Schmitz	
	106	5,810,842	09-22-1998	Di Fiore at al.	
	107	5,813,416	09-29-1998	Rudolph	
	108	5,817,050	10-06-1998	Klein	
	109	5,834,510	11-10-1998	Yu et al.	
	110	5,846,215	12-08-1998	Zygmont	
	111	5,848,998	12-15-1998	Marasco, Jr.	
	112	5,857,995	01-12-1999	Thomas et al.	
	113	5,861,142	01-19-1999	Schick	
	114	5,873,881	02-23-1999	McEwen et al.	
	115	5,879,323	03-09-1999	Henley	
	116	5,882,201	03-16-1999	Salem	

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	117	5,885,260	03-23-1999	Mehl, Sr. et al.	
	118	5,908,401	06-01-1999	Henley	
	119	5,919,152	07-06-1999	Zygmont	
	120	5,919,479	07-06-1999	Zhang et al.	
	121	5,954,730	09-21-1999	Bernabei	
	122	5,971,999	10-26-1999	Naldoni	
	123	5,980,555	11-09-1999	Barbut et al.	
	124	6,019,749	02-01-2000	Fields et al.	
	125	6,023,639	02-08-2000	Hakky et al.	
	126	6,024,733	02-15-2000	Eggers et al.	
	127	6,027,402	02-22-2000	Oliver	
	128	6,039,745	03-21-2000	Di Fiore et al.	
	129	6,042,552	03-28-2000	Comier	
	130	6,080,165	06-27-2000	DeJacma	
	131	6,080,166	06-27-2000	McEwen et al.	
	132	6,090,085	07-18-2000	Mehl, Sr. Et al.	
	133	6,120,512	09-19-2000	Bernabei	
	134	6,129,701	10-10-2000	Cimino	
	135	6,136,008	10-24-2000	Becker et al.	
	136	6,139,553	10-31-2000	Dotan	
	137	6,139,554	10-31-2000	Karkar et al.	
	138	6,142,155	11-07-2000	Rudolph	
	139	6,149,634	11-21-2000	Bernabei	
	140	6,159,226	12-12-2000	Kim	
	141	6,162,218	12-19-2000	Elbrecht et al.	
	142	6,162,232	12-19-2000	Shadduck	
	143	6,165,059	12-26-2000	Parkin et al.	
	144	6,176,198	01-23-2001	Kao et al.	
	145	6,183,451	02-06-2001	Mehl, Sr. et al.	

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	146	6,183,483	02-06-2001	Chang	
	147	6,193,589	02-27-2001	Khalaj	
	148	6,196,982	03-06-2001	Ball	
	149	6,231,593	05-15-2001	Meserol	
	150	6,235,039	05-22-2001	Parkin et al.	
	151	6,238,275	05-29-2001	Metcalf et al.	
	152	6,241,739	06-05-2001	Waldron	
	153	6,245,347	06-12-2001	Zhang et al.	
	154	6,264,666	07-24-2001	Coleman et al.	
	155	6,277,116	08-21-2001	Utely et al.	
	156	6,277,128	08-21-2001	Muldner	
	157	6,283,978	09-04-2001	Cheski et al.	
	158	6,284,266	09-04-2001	Zhang et al.	
	159	6,299,620	10-09-2001	Shadduck	
	160	6,306,119	10-23-2001	Weber et al.	
	161	6,306,147	10-23-2001	Bernabei et al.	
	162	6,322,548	11-27-2001	Payne et al.	
	163	6,322,568	11-27-2001	Bernabei et al.	
	164	6,332,886	12-25-2001	Green et al.	
	165	6,355,054	03-12-2002	Neuberger	
	166	6,368,333	04-09-2002	Bernabei et al.	
	167	6,387,103	05-14-2002	Shadduck	
	168	6,401,289	06-11-2002	Herbert	
	169	6,409,736	06-25-2002	Bernabei	
	170	6,410,599	06-25-2002	Johnson	
	171	6,414,032	07-02-2002	Johnson	
	172	6,420,431	07-16-2002	Johnson	
	173	6,423,078	07-23-2002	Bays et al.	
	174	6,423,750	07-23-2002	Johnson	

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U.S. PATENT DOCUMENTS					
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	175	6,432,113	08-13-2002	Parkin et al.	
	176	6,432,114	08-13-2002	Rosso	
	177	6,471,712	10-29-2002	Burres	
	178	6,477,410	11-05-2002	Henley et al.	
	179	6,482,212	11-19-2002	Bernabei et al.	
	180	6,488,646	12-03-2002	Zygmont	
	181	6,494,856	12-17-2002	Zygmont	
	182	6,500,183	12-31-2002	Waldron	
	183	6,503,256	01-07-2003	Parkin et al.	
	184	6,508,813	01-21-2003	Altshuler	
	185	6,511,486	01-28-2003	Mercier et al.	
	186	6,514,262	02-04-2003	Di Fiore et al.	
	187	6,520,931	02-18-2003	Suh	
	188	6,527,783	03-04-2003	Ignon	
	189	6,535,761	03-18-2003	Bernabei	
	190	6,537,242	03-25-2003	Palmer	
	191	6,540,757	04-01-2003	Hruska et al.	
	192	6,546,281	04-08-2003	Zhang et al.	
	193	6,562,013	05-13-2003	Marasco, Jr.	
	194	6,562,050	05-13-2003	Owen	
	195	6,564,093	05-13-2003	Ostrow et al.	
	196	6,565,535	05-20-2003	Zaias et al.	
	197	6,582,442	06-24-2003	Simon et al.	
	198	6,589,218	07-08-2003	Garcia	
	199	6,592,595	07-15-2003	Mallett et al.	
	200	6,626,445	09-30-2003	Murphy et al.	
	201	6,629,927	10-07-2003	Mesaros et al.	
	202	6,629,983	10-07-2003	Ignon	
	203	6,635,035	10-21-2003	Marasco et al.	

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	204	6,641,591	11-04-2003	Shadduck	
	205	6,645,184	11-11-2003	Zelickson et al.	
	206	6,652,888	11-25-2003	Rhoades	
	207	6,666,874	12-23-2003	Heitzmann et al.	
	208	6,673,081	01-06-2004	Tavger et al.	
	209	6,673,082	01-06-2004	Mallett et al.	
	210	6,685,853	02-03-2004	Angelopoulous et al.	
	211	6,687,537	02-03-2004	Bernabei	
	212	6,689,380	02-10-2004	Marchitto et al.	
	213	6,695,853	02-24-2004	Karasiuk	
	214	6,726,673	04-27-2004	Zhang et al.	
	215	6,735,470	05-11-2004	Henley et al.	
	216	6,743,211	06-01-2004	Prausnitz et al.	
	217	6,743,215	06-01-2004	Bernabei	
	218	6,764,493	07-20-2004	Weber et al.	
	219	6,780,426	08-24-2004	Zhang et al.	
	220	6,800,083	10-05-2004	Hiblar et al.	
	221	6,800,849	10-05-2004	Staats	
	222	6,869,611	03-22-2005	Kligman et al.	
	223	6,905,487	06-14-2005	Zimmerman	
	224	6,911,031	06-28-2005	Muldner	
	225	6,926,681	08-09-2005	Ramey et al.	
	226	6,938,805	09-06-2005	Brincat	
	227	6,942,649	09-13-2005	Ignon et al.	
	228	6,960,206	11-01-2005	Keane	
	229	6,980,448	12-27-2005	Foss et al.	
	230	7,001,355	02-21-2006	Nunomura et al.	
	231	7,004,933	02-28-2006	McDaniel	
	232	7,044,938	05-16-2006	La Bianco et al.	

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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	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear
	233	7,051,907	05-30-2006	Brincat	
	234	7,052,503	05-30-2006	Bernabei	
	235	7,069,073	06-27-2006	Henley et al.	
	236	7,070,488	07-04-2006	Suissa et al.	
	237	7,083,580	08-01-2006	Bernabei	
	238	7,087,036	08-08-2006	Busby et al.	
	239	7,087,063	08-08-2006	Carson et al.	
	240	7,094,252	08-22-2006	Koop	
	241	7,115,275	10-03-2006	Clarot et al.	
	242	7,135,011	11-14-2006	Powers et al.	
	243	7,153,311	12-26-2006	Chung	
	244	7,166,086	01-23-2007	Haider et al.	
	245	7,172,572	02-06-2007	Diamond et al.	
	246	7,197,359	03-27-2007	Tokudome et al.	
	247	7,198,623	04-03-2007	Fischer et al.	
	248	7,232,444	06-19-2007	Chang	
	249	7,241,208	07-10-2007	Suissa et al.	
	250	7,276,051	10-02-2007	Henley et al.	
	251	7,293,930	11-13-2007	Chuang	
	252	7,314,326	01-01-2008	Rosenberg	
	253	7,316,657	01-08-2008	Kleinhenz et al.	
	254	7,316,671	01-08-2008	Lastovich et al.	
	255	7,318,828	01-15-2008	Revivo	
	256	7,320,691	01-22-2008	Pilcher et al.	
	257	7,320,801	01-22-2008	Kelly	
	258	7,354,423	04-08-2008	Zelickson et al.	
	259	7,364,565	04-29-2008	Freeman	
	260	7,384,405	06-10-2008	Rhoades	
	261	7,422,567	09-09-2008	Lastovich et al.	

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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	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear
	262	7,427,273	09-23-2008	Mitsui	
	263	7,440,798	10-21-2008	Redding, Jr.	
	264	7,458,944	12-02-2008	Liste et al.	
	265	7,476,205	01-13-2009	Erdmann	
	266	7,477,938	01-13-2009	Sun et al.	
	267	7,482,314	01-27-2009	Grimes et al.	
	268	7,485,125	02-03-2009	Sjostrom	
	269	7,489,989	02-10-2009	Sukhanov et al.	
	270	7,507,228	03-24-2009	Sun et al.	
	271	7,582,067	09-01-2009	Van Acker	
	272	7,597,900	10-06-2009	Zimmer et al.	
	273	7,597,901	10-06-2009	Clarot et al.	
	274	7,658,742	02-09-2010	Karasiuk	
	275	7,678,120	03-16-2010	Shadduck	
	276	7,744,582	06-29-2010	Sadowski et al.	
	277	7,789,886	09-07-2010	Shadduck	
	278	7,837,695	11-23-2010	Hart et al.	
	279	7,857,806	12-28-2010	Karpowicz et al.	
	280	7,901,373	03-08-2011	Tavger	
	281	7,951,156	05-31-2011	Karasiuk	
	282	7,993,333	08-09-2011	Oral et al.	
	283	8,025,669	09-27-2011	David et al.	
	284	8,048,089	11-01-2011	Ignon et al.	
	285	RE42,960	11-22-2011	Waldron	
	286	8,066,716	11-29-2011	Shadduck	
	287	8,088,085	01-03-2012	Thiebaut et al.	
	288	8,105,295	01-31-2012	Blott et al.	
	289	8,128,638	03-06-2012	Karasiuk et al.	
	290	8,221,437	07-17-2012	Waldron et al.	

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U.S. PATENT DOCUMENTS					
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	291	8,231,292	07-31-2012	Rabe et al.	
	292	8,236,008	08-07-2012	Boone, III et al.	
	293	8,277,287	10-02-2012	Hart	
	294	8,337,513	12-25-2012	Shadduck	
	295	8,343,116	01-01-2013	Ignon et al.	
	296	8,475,507	07-02-2013	Dewey et al.	
	297	8,478,396	07-02-2013	Tsao et al.	
	298	8,535,299	09-17-2013	Giovannoli	
	299	8,545,489	10-01-2013	Giovannoli	
	300	8,562,626	10-22-2013	Sabir et al.	
	301	8,573,874	11-05-2013	Neuner	
	302	8,579,916	11-12-2013	Cheney	
	303	8,721,662	05-13-2014	Karasiuk	
	304	8,814,836	08-26-2014	Ignon et al.	
	305	8,858,570	10-14-2014	Chang	
	306	8,939,669	01-27-2015	Le et al.	
	307	8,945,104	02-03-2015	Boone, III et al.	
	308	9,044,582	06-02-2015	Chang et al.	
	309	9,050,133	06-09-2015	Boone, III et al.	
	310	9,056,193	06-16-2015	Ignon et al.	
	311	9,072,533	07-07-2015	Liu et al.	
	312	9,186,490	11-17-2015	Chang et al.	
	313	9,227,044	01-05-2016	Bansal et al.	
	314	9,271,755	03-01-2016	Luzon et al.	
	315	9,468,464	10-18-2016	Shadduck	
	316	9,474,886	10-25-2016	Ignon et al.	
	317	9,486,615	11-08-2016	Ignon et al.	
	318	9,498,610	11-22-2016	Ignon et al.	
	319	9,517,085	12-13-2016	Karasiuk	

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	320	9,550,052	01-24-2017	Ignon et al.	
	321	9,566,088	02-14-2017	Ignon et al.	
	322	9,597,527	03-21-2017	Buchholz et al.	
	323	9,636,521	05-02-2017	Isserow et al.	
	324	9,636,522	05-02-2017	Oversluizen et al.	
	325	9,642,997	05-09-2017	Ignon et al.	
	326	9,662,482	05-30-2017	Ignon et al.	
	327	9,669,233	06-06-2017	Quisenberry et al.	
	328	9,675,817	06-13-2017	Isserow et al.	
	329	9,700,684	07-11-2017	Vlodaver et al.	
	330	9,731,053	08-15-2017	Alai	
	331	9,775,645	10-03-2017	Boone, III	
	332	9,775,646	10-03-2017	Shadduck	
	333	9,775,976	10-03-2017	Grez	
	334	9,814,485	11-14-2017	Pratt et al.	
	335	9,814,647	11-14-2017	Ajiki	
	336	9,814,868	11-14-2017	Ignon et al.	
	337	9,833,261	12-05-2017	Boone, III et al.	
	338	9,861,442	01-09-2018	Tankovich et al.	
	339	9,918,727	03-20-2018	Boone, III et al.	
	340	9,949,552	04-24-2018	Rabe et al.	
	341	9,950,147	04-24-2018	Mehta	
	342	9,955,769	05-01-2018	Rabe et al.	
	343	9,968,800	05-15-2018	Anderson et al.	
	344	10,004,919	06-26-2018	Lemmens et al.	
	345	10,010,445	07-03-2018	Isserow et al.	
	346	10,022,289	07-17-2018	Ajiki et al.	
	347	10,035,007	07-31-2018	Ignon et al.	
	348	10,052,467	08-21-2018	Bansal et al.	

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	349	10,076,354	09-18-2018	Knowlton	
	350	10,076,646	09-18-2018	Casasanta, III et al.	
	351	10,080,581	09-25-2018	Knowlton	
	352	10,092,478	10-09-2018	Amit	
	353	10,130,390	11-20-2018	Hart et al.	
	354	10,130,827	11-20-2018	Buchholz et al.	
	355	10,172,644	01-08-2019	Ignon et al.	
	356	10,179,229	01-15-2019	Ignon et al.	
	357	10,188,193	01-29-2019	Rabe et al.	
	358	10,206,743	02-19-2019	Tankovich et al.	
	359	10,207,034	02-19-2019	Collins	
	360	10,220,122	03-05-2019	Clark, III et al.	
	361	10,238,812	03-26-2019	Ignon	
	362	10,251,675	04-09-2019	Ignon et al.	
	363	10,272,258	04-30-2019	Quisenberry et al.	
	364	10,308,378	06-04-2019	Goodwin et al.	
	365	10,314,378	06-11-2019	Rabe et al.	
	366	10,321,948	06-18-2019	Knowlton	
	367	10,334,933	08-06-2019	Rosario et al.	
	368	10,335,191	07-02-2019	Knowlton	
	369	10,357,641	07-23-2019	Ignon et al.	
	370	10,357,642	07-23-2019	Ignon et al.	
	371	10,369,073	08-06-2019	Rosario et al.	
	372	10,456,321	10-29-2019	Shadduck	
	373	10,456,567	10-29-2019	Streeter	
	374	10,485,983	11-26-2019	Boone, III et al.	
	375	10,524,835	01-07-2020	Shadduck et al.	
	376	10,556,096	02-11-2020	Ignon et al.	
	377	10,556,097	02-11-2020	Ignon et al.	

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	378	10,583,037	03-10-2020	Isserow et al.	
	379	10,667,985	06-02-2020	Decaux et al.	
	380	10,716,924	07-21-2020	Knowlton	
	381	10,737,080	08-11-2020	Patterson	
	382	10,758,261	09-01-2020	Richardson	
	383	10,772,658	09-15-2020	Knowlton	
	384	10,792,382	10-06-2020	Rafko	
	385	10,835,287	11-17-2020	Shadduck et al.	
	386	10,856,900	12-08-2020	Knowlton	
	387	10,874,579	12-29-2020	Rembert	
	388	10,912,428	02-09-2021	Daffer	
	389	10,918,190	02-16-2021	Laudati	
	390	10,946,191	03-16-2021	Cazares Delgadillo	
	391	10,952,907	03-23-2021	Carver	
	392	10,993,743	05-04-2021	Ignon et al.	
	393	11,020,577	06-01-2021	Ignon et al.	
	394	11,045,661	06-29-2021	Oversluizen et al.	
	395	11,141,761	10-12-2021	Connelly et al.	
	396	11,154,723	10-26-2021	Lee	
	397	11,202,657	12-21-2021	Ignon et al.	
	398	11,213,321	01-04-2022	Ignon et al.	
	399	11,224,728	01-18-2022	Ignon et al.	
	400	11,241,357	02-08-2022	Ignon et al.	
	401	11,291,474	04-05-2022	Nicolas et al.	
	402	11,351,063	06-07-2022	Locke et al.	
	403	11,446,477	09-20-2022	Ignon et al.	
	404	11,452,852	09-27-2022	Quan et al.	
	405	11,504,148	11-22-2022	Friend	
	406	11,517,350	12-06-2022	Ignon et al.	

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	407	11,547,840	01-10-2023	Ignon et al.	
	408	11,612,726	03-28-2023	Ignon et al.	
	409	D260,176	08-11-1981	Boschetti et al.	
	410	D486,915	02-17-2004	Warschewske et al.	
	411	D496,101	09-14-2004	Davison	
	412	D517,699	03-21-2006	Lansohn	
	413	D522,360	06-06-2006	Caserta et al.	
	414	D553,005	10-16-2007	Py et al.	
	415	D584,151	01-06-2009	Murphy	
	416	D664,254	07-24-2012	Yokoyama et al.	
	417	D678,783	03-26-2013	Wilcox et al.	
	418	D709,617	07-22-2014	Iliesco de Grimaldi et al.	
	419	D722,172	02-03-2015	Amemiya et al.	
	420	D743,558	11-17-2015	Kim et al.	
	421	D787,054	05-16-2017	Rini et al.	
	422	D811,381	02-27-2018	Morohoshi et al.	
	423	D822,845	07-10-2018	Shimobayashi et al.	
	424	D825,763	08-14-2018	Lim et al.	
	425	D836,781	12-25-2018	Meurer et al.	
	426	D851,759	06-18-2019	Jones et al.	
	427	D852,962	07-02-2019	Chang	
	428	D861,913	10-01-2019	Stamm et al.	
	429	D868,981	12-03-2019	Salamon et al.	
	430	D867,587	11-19-2019	Holtz	
	431	D873,430	01-21-2020	Accolla	
	432	D887,571	06-16-2020	Liu	
	433	D893,024	08-11-2020	Whiteside	
	434	D927,008	08-03-2021	Rappaport	
	435	D928,977	08-24-2021	Dijkstra	

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	436	2001/0023351	09-20-2001	Eilers	
	437	2001/0049511	12-06-2001	Coleman et al.	
	438	2002/0016601	02-07-2002	Shadduck	
	439	2002/0041891	04-11-2002	Cheski	
	440	2002/0058952	05-16-2002	Weber et al.	
	441	2002/0099356	07-25-2002	Unger et al.	
	442	2002/0107527	08-08-2002	Burres	
	443	2002/0128663	09-12-2002	Mercier et al.	
	444	2002/0133110	09-19-2002	Citow	
	445	2002/0133176	09-19-2002	Parkin et al.	
	446	2002/0151826	10-17-2002	Ramey et al	
	447	2002/0162863	11-07-2002	Brincat	
	448	2002/0188261	12-12-2002	Hruska	
	449	2002/0198488	12-26-2002	Yao	
	450	2003/0012415	01-16-2003	Cossel	
	451	2003/0018252	01-23-2003	Duchon et al.	
	452	2003/0060834	03-27-2003	Muldner	
	453	2003/0093040	05-15-2003	Mikszta et al.	
	454	2003/0093089	05-15-2003	Greenberg	
	455	2003/0097139	05-22-2003	Karasiuk	
	456	2003/0187462	10-14-2003	Chang	
	457	2003/0208159	11-06-2003	Ignon et al.	
	458	2003/0212127	11-13-2003	Glassman et al.	
	459	2003/0212415	11-13-2003	Karasiuk	
	460	2004/0010222	01-15-2004	Nunomura et al.	
	461	2004/0010269	01-15-2004	Grimes et al.	
	462	2004/0015139	01-22-2004	La Bianco	
	463	2004/0087972	05-06-2004	Mulholland et al.	
	464	2004/0092895	05-13-2004	Harmon	

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	465	2004/0092959	05-13-2004	Bernaz	
	466	2004/0097967	05-20-2004	Ignon	
	467	2004/0122447	06-24-2004	Harmon et al.	
	468	2004/0127914	07-01-2004	Chung	
	469	2004/0138680	07-15-2004	Twitchell et al.	
	470	2004/0162565	08-19-2004	Carson et al.	
	471	2004/0166172	08-26-2004	Rosati et al.	
	472	2004/0210280	10-21-2004	Liedtke	
	473	2004/0219179	11-04-2004	McDaniel	
	474	2004/0229295	11-18-2004	Marchitto et al.	
	475	2004/0236291	11-25-2004	Zelickson et al.	
	476	2004/0236375	11-25-2004	Redding, Jr.	
	477	2004/0243149	12-02-2004	Lee, John B. JR.	
	478	2004/0254587	12-16-2004	Park	
	479	2004/0267285	12-30-2004	Chang	
	480	2005/0037034	02-17-2005	Rhoades	
	481	2005/0038377	02-17-2005	Redding, Jr.	
	482	2005/0038448	02-17-2005	Chung	
	483	2005/0059940	03-17-2005	Weber et al.	
	484	2005/0065461	03-24-2005	Redding, Jr.	
	485	2005/0070977	03-31-2005	Molina	
	486	2005/0075599	04-07-2005	Redding, Jr.	
	487	2005/0080465	04-14-2005	Zelickson et al.	
	488	2005/0084509	04-21-2005	Bernstein	
	489	2005/0148958	07-07-2005	Rucinski	
	490	2005/0203111	09-15-2005	David	
	491	2005/0209611	09-22-2005	Greenberg	
	492	2005/0283176	12-22-2005	Law	
	493	2006/0002960	01-05-2006	Zoeteweij et al.	

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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	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear
	494	2006/0015059	01-19-2006	Redding, Jr.	
	495	2006/0058714	03-16-2006	Rhoades	
	496	2006/0100567	05-11-2006	Marchitto et al.	
	497	2006/0116674	06-01-2006	Goble et al.	
	498	2006/0161178	07-20-2006	Lee	
	499	2006/0189964	08-24-2006	Anderson	
	500	2006/0191562	08-31-2006	Numomura	
	501	2006/0200099	09-07-2006	La Bianco et al.	
	502	2006/0212025	09-21-2006	McDaniel	
	503	2006/0212029	09-21-2006	Villacampa et al.	
	504	2006/0222445	10-05-2006	Chuang	
	505	2006/0253078	11-09-2006	Wu et al.	
	506	2006/0253079	11-09-2006	McDonough et al.	
	507	2006/0253125	11-09-2006	Ignon	
	508	2006/0264893	11-23-2006	Sage, Jr. et al.	
	509	2006/0264926	11-23-2006	Kochamba	
	510	2006/0269580	11-30-2006	Cole et al.	
	511	2006/0278661	12-14-2006	Cooper et al.	
	512	2007/0005078	01-04-2007	Hart et al.	
	513	2007/0020321	01-25-2007	Redding et al.	
	514	2007/0043382	02-22-2007	Cheney	
	515	2007/0049901	03-01-2007	Wu et al.	
	516	2007/0065515	03-22-2007	Key	
	517	2007/0073327	03-29-2007	Giovannoli	
	518	2007/0088371	04-19-2007	Karasiuk	
	519	2007/0093694	04-26-2007	Fassuliotis et al.	
	520	2007/0123808	05-31-2007	Rhoades	
	521	2007/0139630	06-21-2007	Kleman et al.	
	522	2007/0149991	06-28-2007	Mulholland	

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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	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear
	523	2007/0154502	07-05-2007	Hattendorf et al.	
	524	2007/0156124	07-05-2007	Ignon et al.	
	525	2007/0178121	08-02-2007	First et al.	
	526	2007/0198031	08-23-2007	Kellogg	
	527	2007/0239173	10-11-2007	Khalaj	
	528	2007/0270738	11-22-2007	Wu et al.	
	529	2008/0009802	01-10-2008	Lambino et al.	
	530	2008/0027328	01-31-2008	Klopotek et al.	
	531	2008/0091126	04-17-2008	Greenburg	
	532	2008/0091179	04-17-2008	Durkin et al.	
	533	2008/0103563	05-01-2008	Powell	
	534	2008/0119781	05-22-2008	King	
	535	2008/0132914	06-05-2008	Bossard et al.	
	536	2008/0139974	06-12-2008	Da Silva	
	537	2008/0154161	06-26-2008	Abbott	
	538	2008/0154183	06-26-2008	Baker et al.	
	539	2008/0161799	07-03-2008	Stangenes et al.	
	540	2008/0188840	08-07-2008	Johnson et al.	
	541	2008/0193493	08-14-2008	Rhoades	
	542	2008/0200861	08-21-2008	Shalev et al.	
	543	2008/0200863	08-21-2008	Chomas et al.	
	544	2008/0208146	08-28-2008	Brandwein et al.	
	545	2008/0214987	09-04-2008	Xu	
	546	2008/0215068	09-04-2008	Hart et al.	
	547	2008/0221548	09-11-2008	Danenberg et al.	
	548	2008/0243039	10-02-2008	Rhoades	
	549	2008/0287864	11-20-2008	Rosenberg	
	550	2008/0300529	12-04-2008	Reinstein	
	551	2008/0300552	12-04-2008	Cichocki et al.	

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	552	2009/0048557	02-19-2009	Yeshurun et al.	
	553	2009/0053390	02-26-2009	Sakou et al.	
	554	2009/0062815	03-05-2009	Karasiuk et al.	
	555	2009/0099091	04-16-2009	Hantash	
	556	2009/0099093	04-16-2009	Hantash	
	557	2009/0124985	05-14-2009	Hasenoehrl et al.	
	558	2009/0138026	05-28-2009	Wu	
	559	2009/0222023	09-03-2009	Boone, III et al.	
	560	2009/0254014	10-08-2009	Son	
	561	2010/0023003	01-28-2010	Mulholland	
	562	2010/0045427	02-25-2010	Boone, III et al.	
	563	2010/0048980	02-25-2010	De Jong et al.	
	564	2010/0049177	02-25-2010	Boone, III et al.	
	565	2010/0049210	02-25-2010	Boone, III et al.	
	566	2010/0056847	03-04-2010	De Jong et al.	
	567	2010/0217357	08-26-2010	Da Silva	
	568	2010/0305495	12-02-2010	Anderson et al.	
	569	2011/0054490	03-03-2011	Hart	
	570	2011/0066162	03-17-2011	Cohen	
	571	2011/0264028	10-27-2011	Ramdas et al.	
	572	2011/0295273	12-01-2011	Waldron et al.	
	573	2012/0041338	02-16-2012	Chickering III et al.	
	574	2012/0136374	05-31-2012	Karasiuk	
	575	2012/0289885	11-15-2012	Cottrell et la.	
	576	2012/0302929	11-29-2012	Tkachenko	
	577	2013/0004230	01-03-2013	Kirk, III et al.	
	578	2013/0018317	01-17-2013	Bobroff et al.	
	579	2013/0066336	03-14-2013	Boone, III et al.	
	580	2013/0096577	04-18-2013	Shadduck	

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	581	2013/0144207	06-06-2013	Gonon	
	582	2013/0144280	06-06-2013	Eckhouse et al.	
	583	2013/0158547	06-20-2013	David	
	584	2013/0226269	08-29-2013	Eckhouse et al.	
	585	2013/0261534	10-03-2013	Niezgoda et al.	
	586	2014/0031801	01-30-2014	Giovannoli	
	587	2014/0079686	03-20-2014	Barman et al.	
	588	2014/0081251	03-20-2014	Giovannoli	
	589	2014/0234004	08-21-2014	Thorpe et al.	
	590	2014/0243589	08-28-2014	Rowan	
	591	2014/0316492	10-23-2014	Min et al.	
	592	2014/0378887	12-25-2014	Chang et al.	
	593	2015/0039060	02-05-2015	Paulussen et al.	
	594	2015/0272623	10-01-2015	Ignon et al.	
	595	2016/0015962	01-21-2016	Maragheh et al.	
	596	2016/0018100	01-21-2016	Batt et al.	
	597	2016/0175609	06-23-2016	Dye et al.	
	598	2016/0235257	08-18-2016	Daffer	
	599	2016/0250415	09-01-2016	Yagi et al.	
	600	2017/0043150	02-16-2017	Kim	
	601	2017/0157419	06-08-2017	Jeong	
	602	2017/0196759	07-13-2017	Palomaki et al.	
	603	2017/0209894	07-27-2017	Sporrer	
	604	2017/0291007	10-12-2017	Dubey et al.	
	605	2017/0340356	11-30-2017	Presser et al.	
	606	2018/0140329	05-24-2018	Beijens et al.	
	607	2018/0185675	07-05-2018	Kern et al.	
	608	2018/0318568	11-08-2018	Ignon et al.	
	609	2018/0326191	11-15-2018	Bansal et al.	

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	610	2019/0070069	03-07-2019	Gertner et al.	
	611	2019/0143089	05-16-2019	Ignon et al.	
	612	2019/0151637	05-23-2019	Groop et al.	
	613	2019/0168016	06-06-2019	Anderson et al.	
	614	2019/0209859	07-11-2019	Quisenberry et al.	
	615	2019/0223914	07-25-2019	Ignon et al.	
	616	2019/0240502	08-08-2019	Anderson et al.	
	617	2019/0366067	12-05-2019	Ginggen et al.	
	618	2020/0009007	01-09-2020	Shadduck	
	619	2020/0016342	01-16-2020	Ignon	
	620	2020/0030627	01-30-2020	Eltorai et al.	
	621	2020/0101312	04-02-2020	Pai et al.	
	622	2020/0114116	04-16-2020	Dubey et al.	
	623	2020/0171288	06-04-2020	Ignon et al.	
	624	2020/0171289	06-04-2020	Ignon et al.	
	625	2020/0179220	06-11-2020	Jablow	
	626	2020/0289161	09-17-2020	Scooros	
	627	2020/0306555	10-01-2020	Ebbesson	
	628	2020/0316270	10-08-2020	Dijkstra et al.	
	629	2020/0330754	10-22-2020	Kim et al.	
	630	2020/0338586	10-29-2020	Park	
	631	2020/0390468	12-17-2020	Alexander	
	632	2021/0085367	03-25-2021	Shadduck et al.	
	633	2021/0145479	05-20-2021	Ignon et al.	
	634	2021/0154453	05-27-2021	Ignon et al.	
	635	2021/0220631	07-22-2021	Ok et al.	
	636	2021/0236342	08-05-2021	Long et al.	
	637	2021/0236347	08-05-2021	Carver	
	638	2021/0259914	08-26-2021	Holbert	

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	639	2021/0267625	09-02-2021	Carver	
	640	2021/0268304	09-02-2021	Lee	
	641	2021/0283421	09-16-2021	Kang et al.	
	642	2021/0290430	09-23-2021	Kim	
	643	2021/0330356	10-28-2021	Del Rosario et al.	
	644	2021/0353922	11-18-2021	Ignon et al.	
	645	2021/0361525	11-25-2021	Park et al.	
	646	2021/0370089	12-02-2021	Anash	
	647	2021/0393478	12-23-2021	Bhatti	
	648	2021/0393974	12-23-2021	Kim et al.	
	649	2021/0393975	12-23-2021	Eltorai et al.	
	650	2021/0395071	12-23-2021	Zubrum et al.	
	651	2021/0402208	12-30-2021	Edgar	
	652	2022/0001198	01-06-2022	Lee	
	653	2022/0071491	03-10-2022	Bae et al.	
	654	2022/0072332	03-10-2022	Park et al.	
	655	2022/0087891	03-24-2022	Goodman et al.	
	656	2022/0111198	04-14-2022	Jung	
	657	2022/0125706	04-28-2022	Horinek et al.	
	658	2022/0126014	04-28-2022	Cederna et al.	
	659	2022/0176092	06-09-2022	Quan et al.	
	660	2022/0211988	07-07-2022	Ignon et al.	
	661	2022/0226668	07-21-2022	Lee et al.	
	662	2022/0241107	08-04-2022	Kim et al.	
	663	2022/0241146	08-04-2022	Jeong	
	664	2022/0401714	12-22-2022	Quan et al.	
	665	2023/0012684	01-19-2023	Ignon et al.	
	666	2023/0018295	01-19-2023	Ignon et al.	
	667	2023/0033217	02-02-2023	Ignon et al.	

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U.S. PATENT DOCUMENTS					
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	668	2023/0033761	02-02-2023	Ignon et al.	
	669	3,608,553	09-28-1971	Balamuth	
	670	4,671,412	06-09-1987	Gatten	
	671	4,866,202	09-12-1989	Weil	
	672	4,990,841	02-05-1991	Elder	
	673	5,217,455	06-08-1993	Tan	
	674	5,290,273	03-01-1994	Tan	
	675	5,423,803	06-13-1995	Tankovich et al.	
	676	5,437,372	08-01-1995	Per-Lee	
	677	5,618,275	04-08-1997	Bock	
	678	5,626,631	05-06-1997	Eckhouse	
	679	5,658,323	08-19-1997	Miller	
	680	5,755,751	05-26-1998	Eckhouse	
	681	5,817,089	10-06-1998	Tankovich et al.	
	682	5,879,376	03-09-1999	Miller	
	683	5,911,223	06-15-1999	Weaver et al.	
	684	6,027,495	02-22-2000	Miller	
	685	6,032,071	02-29-2000	Binder	
	686	6,036,684	03-14-2000	Tankovich et al.	
	687	6,074,382	06-13-2000	Asah et al.	
	688	6,093,021	07-25-2000	Rainey	
	689	6,113,559	09-05-2000	Klopotek	
	690	6,149,644	11-21-2000	Xie	
	691	6,174,325	01-16-2001	Eckhouse	
	692	6,190,376	02-20-2001	Asah et al.	
	693	6,269,271	07-31-2001	Bernabei	
	694	6,280,438	08-28-2001	Eckhouse et al.	
	695	6,325,381	12-04-2001	von Engelbrechten	
	696	6,325,769	12-04-2001	Klopotek	

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	697	6,334,074	12-25-2001	Spertell	
	698	6,383,177	05-07-2002	Balle-Petersen et al.	
	699	6,387,089	05-14-2002	Kreindel et al.	
	700	6,458,109	10-01-2002	Henley et al.	
	701	6,514,243	02-04-2003	Eckhouse et al.	
	702	6,514,278	02-04-2003	Hibst et al.	
	703	6,518,538	02-11-2003	Bernabei	
	704	6,527,716	03-04-2003	Eppstein	
	705	6,533,776	03-18-2003	Asah et al.	
	706	6,569,157	05-27-2003	Shain et al.	
	707	6,587,730	07-01-2003	Bernabei	
	708	6,595,934	07-22-2003	Hissong et al.	
	709	6,611,706	08-26-2003	Avrahami et al.	
	710	6,629,971	10-07-2003	McDaniel	
	711	6,629,974	10-07-2003	Penny et al.	
	712	6,699,237	03-02-2004	Weber et al.	
	713	6,712,805	03-30-2004	Weimann	
	714	6,878,144	04-12-2005	Altshuler et al.	
	715	6,887,260	05-03-2005	McDaniel	
	716	7,031,805	04-18-2006	Lee et al.	
	717	7,062,317	06-13-2006	Avrahami et al.	
	718	7,108,689	09-19-2006	Eckhouse et al.	
	719	7,118,563	10-10-2006	Weckwerth et al.	
	720	7,122,029	10-17-2006	Koop et al.	
	721	7,189,230	03-13-2007	Knowlton	
	722	7,201,765	04-10-2007	McDaniel	
	723	7,232,431	06-19-2007	Weimann	
	724	7,250,045	07-31-2007	Island et al.	
	725	7,326,199	02-05-2008	MacFarland et al.	

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	726	7,329,252	02-12-2008	Yamazaki et al.	
	727	7,367,981	05-06-2008	Bernaz	
	728	7,494,503	02-24-2009	McDaniel	
	729	7,572,238	08-11-2009	Rhoades	
	730	7,607,972	10-27-2009	Groman	
	731	7,730,979	06-08-2010	Kahrig	
	732	7,731,570	06-08-2010	Groman	
	733	7,740,651	06-22-2010	Barak et al.	
	734	7,749,260	07-06-2010	Da Silva et al.	
	735	7,758,537	07-20-2010	Brunell et al.	
	736	7,771,374	08-10-2010	Slatkine	
	737	7,780,652	08-24-2010	MacFarland et al.	
	738	7,814,915	10-19-2010	Davenport et al.	
	739	7,862,564	01-04-2011	Goble	
	740	7,927,188	04-19-2011	Groman	
	741	7,981,111	07-19-2011	Grove et al.	
	742	7,981,112	07-19-2011	Neev	
	743	8,048,064	11-01-2011	Hwang et al.	
	744	8,135,475	03-13-2012	Kreindel et al.	
	745	8,182,473	05-22-2012	Altshuler et al.	
	746	8,226,663	07-24-2012	Remsburg et al.	
	747	8,236,036	08-07-2012	Frost	
	748	8,241,094	08-14-2012	Groman	
	749	8,273,080	09-25-2012	Mehta	
	750	8,276,592	10-02-2012	Davenport et al.	
	751	8,282,630	10-09-2012	Neev	
	752	8,313,480	11-20-2012	Neev	
	753	8,317,781	11-27-2012	Owens et al.	
	754	8,323,253	12-04-2012	Hantash et al.	

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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	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear
	755	8,360,826	01-29-2013	Groman	
	756	8,398,621	03-19-2013	Beerwerth et al.	
	757	8,430,104	04-30-2013	Hennings et al.	
	758	8,435,234	05-07-2013	Chan et al.	
	759	8,480,721	07-09-2013	Owens et al.	
	760	8,496,654	07-30-2013	Adanny et al.	
	761	8,496,695	07-30-2013	Kang et al.	
	762	8,545,419	10-01-2013	Kim	
	763	8,551,104	10-08-2013	Weckwerth et al.	
	764	8,597,284	12-03-2013	Castro	
	765	8,632,378	01-21-2014	Groman	
	766	8,656,931	02-25-2014	Davenport et al.	
	767	8,668,552	03-11-2014	Groman	
	768	8,679,039	03-25-2014	Tieu et al.	
	769	8,700,176	04-15-2014	Azar et al.	
	770	8,702,691	04-22-2014	Weber et al.	
	771	8,702,771	04-22-2014	Frost	
	772	8,728,064	05-20-2014	Schomacker et al.	
	773	8,740,917	06-03-2014	Pilcher et al.	
	774	8,818,500	08-26-2014	Duquet et al.	
	775	8,821,940	09-02-2014	Harris et al.	
	776	8,834,933	09-16-2014	Harris et al.	
	777	8,945,109	02-03-2015	Mehta	
	778	8,974,442	03-10-2015	Boss, Jr.	
	779	9,017,391	04-28-2015	McDaniel	
	780	9,017,392	04-28-2015	Owens et al.	
	781	9,050,156	06-09-2015	Groman	
	782	9,072,521	07-07-2015	Levi et al.	
	783	9,072,892	07-07-2015	Owens et al.	

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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	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear
	784	9,084,587	07-21-2015	Eckhouse et al.	
	785	9,149,322	10-06-2015	Knowlton	
	786	9,227,082	01-05-2016	McDaniel	
	787	9,233,207	01-12-2016	Polyakov et al.	
	788	9,278,230	03-08-2016	Levin et al.	
	789	9,283,037	03-15-2016	Bragagna et al.	
	790	9,314,302	04-19-2016	Dougal	
	791	9,351,792	05-31-2016	Manstein et al.	
	792	9,351,794	05-31-2016	Suckewer et al.	
	793	9,375,281	06-28-2016	Moench et al.	
	794	9,421,260	08-23-2016	Harris et al.	
	795	9,421,261	08-23-2016	Harris et al.	
	796	9,439,964	09-13-2016	Harris et al.	
	797	9,440,093	09-13-2016	Homer	
	798	9,452,013	09-27-2016	Manstein	
	799	9,480,836	11-01-2016	Na	
	800	9,522,287	12-20-2016	Owens et al.	
	801	9,566,454	02-14-2017	Barthe et al.	
	802	9,572,880	02-21-2017	Harris et al.	
	803	9,694,199	07-04-2017	Duquet et al.	
	804	9,744,315	08-29-2017	Levi	
	805	9,814,906	11-14-2017	McDaniel	
	806	9,962,220	05-08-2018	Domankevitz	
	807	10,105,191	10-23-2018	Blanco et al.	
	808	10,149,969	12-11-2018	Grez et al.	
	809	10,149,984	12-11-2018	Modi et al.	
	810	10,183,183	01-22-2019	Burdette	
	811	10,238,849	03-26-2019	Britva et al.	
	812	10,252,044	04-09-2019	Bock	

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U.S. PATENT DOCUMENTS					
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	813	10,271,900	04-30-2019	Marchitto et al.	
	814	10,307,330	06-04-2019	Sedic	
	815	10,328,277	06-25-2019	Modi et al.	
	816	10,413,359	09-17-2019	Felsenstein et al.	
	817	10,456,197	10-29-2019	Felsenstein et al.	
	818	10,463,429	11-05-2019	Deem et al.	
	819	10,471,274	11-12-2019	Liu et al.	
	820	10,537,304	01-21-2020	Barthe et al.	
	821	10,537,640	01-21-2020	Harris et al.	
	822	10,675,481	06-09-2020	Tankovich	
	823	10,688,290	06-23-2020	Yuval	
	824	10,702,328	07-07-2020	Slatkine et al.	
	825	10,736,653	08-11-2020	Knowlton	
	826	10,799,285	10-13-2020	Mulholland	
	827	10,799,430	10-13-2020	Danto	
	828	10,813,694	10-27-2020	Johnson et al.	
	829	10,835,726	11-17-2020	Redding, Jr.	
	830	10,850,095	12-01-2020	Ebbers et al.	
	831	10,860,026	12-08-2020	Nguyen et al.	
	832	10,893,907	01-19-2021	Kim	
	833	10,952,811	03-23-2021	Blanco et al.	
	834	10,980,592	04-20-2021	Horton et al.	
	835	11,083,515	08-10-2021	Slatkine et al.	
	836	11,123,039	09-21-2021	Barthe et al.	
	837	11,172,978	11-16-2021	Wootten et al.	
	838	11,247,039	02-15-2022	Schwarz	
	839	11,278,101	03-22-2022	Jeannin et al.	
	840	11,291,498	04-05-2022	Slatkine et al.	
	841	11,311,721	04-26-2022	Ebbers et al.	

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	842	11,337,745	05-24-2022	Kim	
	843	11,337,755	05-24-2022	Hancock et al.	
	844	11,419,678	08-23-2022	Deem et al.	
	845	11,497,553	11-15-2022	Reinhard et al.	
	846	11,540,882	01-03-2023	Masotti et al.	
	847	11,590,345	02-28-2023	Danitz et al.	
	848	11,602,629	03-14-2023	Schwarz et al.	
	849	11,717,326	08-08-2023	Ignon et al.	
	850	D117,295	10-24-1939	Smith	
	851	D151,807	11-23-1948	Berkowitz	
	852	D237,776	11-25-1975	Arassa et al.	
	853	D237,863	12-02-1975	Peters et al.	
	854	D255,325	06-10-1980	Hoyt	
	855	D258,348	02-24-1981	Hoyt	
	856	D259,921	07-21-1981	Hartmann	
	857	D288,293	02-17-1987	Arvans	
	858	D290,999	07-21-1987	Novak	
	859	D308,480	06-12-1990	Hoyt	
	860	D317,719	06-25-1991	Hestehave et al.	
	861	D428,142	07-11-2000	Stromblad	
	862	D472,136	03-25-2003	Hermann	
	863	D490,561	05-25-2004	Angeletta	
	864	D499,207	11-30-2004	Angeletta	
	865	D499,841	12-14-2004	Angeletta	
	866	D502,288	02-22-2005	Longoria	
	867	D502,289	02-22-2005	Longoria	
	868	D502,569	03-01-2005	Longoria	
	869	D533,962	12-19-2006	Angeletta	
	870	D536,481	02-06-2007	Angeletta	

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	871	D545,207	06-26-2007	De Baschmakoff	
	872	D557,611	12-18-2007	Ingemarsson	
	873	D625,198	10-12-2010	Hall	
	874	D639,164	06-07-2011	Walsh	
	875	D676,764	02-26-2013	Moore et al.	
	876	D680,437	04-23-2013	Bartolo et al.	
	877	D697,404	01-14-2014	Johnson et al.	
	878	D734,154	07-14-2015	Johnson et al.	
	879	D743,269	11-17-2015	Pape	
	880	D765,512	09-06-2016	Joulia	
	881	D772,481	11-22-2016	Paquet	
	882	D782,881	04-04-2017	Seiders et al.	
	883	D811,225	02-27-2018	Newson	
	884	D833,283	11-13-2018	Rock	
	885	D873,481	01-21-2020	Larkin	
	886	D886,370	06-02-2020	Soutelo Gomes	
	887	D886,372	06-02-2020	Weinrich	
	888	D908,282	01-19-2021	Kim	
	889	D917,290	04-27-2021	Bravman et al.	
	890	2002/0040199	04-04-2002	Klopotek	
	891	2003/135388	07-17-2003	Martucci et al.	
	892	2004/0005349	01-08-2004	Neev	
	893	2004/0176823	09-09-2004	Island et al.	
	894	2005/0015077	01-20-2005	Kuklin et al.	
	895	2005/0154333	07-14-2005	Mulholland et al.	
	896	2005/0203593	09-15-2005	Shanks et al.	
	897	2006/0184071	08-17-2006	Klopotek	
	898	2006/0200213	09-07-2006	McDaniel	
	899	2006/0235371	10-19-2006	Wakamatsu et al.	

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	900	2007/0078290	04-05-2007	Esenaliev	
	901	2007/0088245	04-19-2007	Babaev et al.	
	902	2007/0232987	10-04-2007	Diaz et al.	
	903	2007/0239079	10-11-2007	Manstein et al.	
	904	2007/0255355	11-01-2007	Altshuler et al.	
	905	2007/0264625	11-15-2007	DeBenedictis et al.	
	906	2008/0015555	01-17-2008	Manstein et al.	
	907	2008/0027518	01-31-2008	Island et al.	
	908	2008/0146970	06-19-2008	Litman et al.	
	909	2008/0208179	08-28-2008	Chan et al.	
	910	2008/0234626	09-25-2008	Chelak	
	911	2009/0118684	05-07-2009	Da Silva et al.	
	912	2009/0132012	05-21-2009	Shanks	
	913	2009/0171191	07-02-2009	Patrick et al.	
	914	2009/0171194	07-02-2009	Patrick et al.	
	915	2009/0299237	12-03-2009	Rhoades	
	916	2010/0063565	03-11-2010	Beerwerth et al.	
	917	2011/0060270	03-10-2011	Eppstein	
	918	2011/0067761	06-09-2011	King	
	919	2011/0190726	08-04-2011	Hantash et al.	
	920	2011/0251523	10-13-2011	Kim	
	921	2011/0270137	11-03-2011	Goren et al.	
	922	2011/0270364	11-03-2011	Kreindel et la.	
	923	2012/0041523	02-16-2012	Solomon et al.	
	924	2012/0109041	05-03-2012	Munz	
	925	2012/0109043	05-03-2012	Zhou et al.	
	926	2012/0171636	07-05-2012	Groman	
	927	2012/0259252	10-11-2012	Thorn-Leeson et al.	
	928	2013/0085421	04-04-2013	Gillespie et al.	

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	929	2013/0096546	04-18-2013	Mirkov et al.	
	930	2013/0204238	08-08-2013	Lederman et al.	
	931	2013/0226075	08-29-2013	Hennings et al.	
	932	2013/0268032	10-10-2013	Neev	
	933	2013/0310906	11-21-2013	Neev	
	934	2013/0317314	11-28-2013	Lampson	
	935	2013/0345616	12-26-2013	Chang	
	936	2014/0094718	04-03-2014	Feldman	
	937	2014/0114234	04-24-2014	Redding, Jr.	
	938	2014/0135798	05-15-2014	David	
	939	2015/0141877	05-21-2015	Feldman	
	940	2015/0157496	06-11-2015	Horton et al.	
	941	2015/0202007	07-23-2015	Mainstein et al.	
	942	2015/0313993	11-05-2015	Bock	
	943	2015/0351868	12-10-2015	Groman	
	944	2016/0220849	08-04-2016	Knowlton	
	945	2016/0270850	09-22-2016	Manstein et al.	
	946	2016/0270851	09-22-2016	Moench et al.	
	947	2016/0287333	10-06-2016	Morrison	
	948	2016/0324578	11-10-2016	Manstein et al.	
	949	2017/0065829	03-09-2017	Ku	
	950	2017/0106206	04-20-2017	Seckel	
	951	2017/0128319	05-11-2017	Decaux et al.	
	952	2017/0252105	09-07-2017	Deem et al.	
	953	2017/0343308	11-30-2017	Wojciechowski, III et al.	
	954	2018/0008500	01-11-2018	Anderson et al.	
	955	2018/0310979	11-01-2018	Peled et al.	
	956	2019/0009110	01-10-2019	Gross et al.	
	957	2019/0009111	01-10-2019	Myhr et al.	

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	958	2019/0076193	03-14-2019	Clementi et al.	
	959	2019/0083161	03-21-2019	Harle et al.	
	960	2019/0183562	06-20-2019	Widgerow	
	961	2019/0224501	07-25-2019	Burdette	
	962	2019/0239939	08-08-2019	Boll et al.	
	963	2019/0240110	08-08-2019	Sedic	
	964	2019/0257320	08-22-2019	Petit et al.	
	965	2019/0274759	09-12-2019	Royon et al.	
	966	2019/0275320	09-12-2019	Kim et al.	
	967	2020/0121354	04-23-2020	Ginggen et a l.	
	968	2020/0206072	07-02-2020	Capelli et al.	
	969	2020/0254273	08-13-2020	Jafari et al.	
	970	2020/0275945	09-03-2020	Knowlton	
	971	2020/0288843	09-17-2020	Verheem	
	972	2020/0367961	11-26-2020	Podmore et al.	
	973	2021/0001148	01-07-2021	Verheem	
	974	2021/0052292	02-25-2021	Karni	
	975	2021/0128416	05-06-2021	Danto	
	976	2021/0154093	05-27-2021	Boone, III et al.	
	977	2021/0236836	08-05-2021	Schwarz et al.	
	978	2021/0242657	08-05-2021	Yi et al.	
	979	2021/0275406	09-09-2021	Danto	
	980	2021/0282855	09-16-2021	Boinagrov et al.	
	981	2021/0370049	12-02-2021	Moss et al.	
	982	2022/0001199	01-06-2022	Beerwerth et al.	
	983	2022/0008122	01-13-2022	Johnston et al.	
	984	2022/0032082	02-03-2022	Shenfarber et al.	
	985	2022/0054189	02-24-2022	Wootten	
	986	2022/0117632	04-21-2022	Walker et al.	

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	987	2022/0133407	05-05-2022	Anderson et al.	
	988	2022/0175443	06-09-2022	Slatkine et al.	
	989	2022/0203112	06-30-2022	Iger et al.	
	990	2022/0211424	07-07-2022	Wootten et al.	
	991	2022/0218562	07-14-2022	Capelli et al.	
	992	2022/0233400	07-28-2022	Oh et al.	
	993	2022/0268536	08-25-2022	Stephenson et al.	
	994	2022/0287910	09-15-2022	Boone, III et al.	
	995	2022/0312940	10-06-2022	Hong et al.	
	996	2022/0362529	11-17-2022	Castro	
	997	2022/0409276	12-29-2022	Choi	
	998	2023/0014299	01-19-2023	Lee, Jr. et al.	
	999	2023/0019979	01-19-2023	Deem et al.	
	1000	2023/0042047	02-09-2023	Kim et al.	
	1001	2023/0062185	03-02-2023	Nazarian et al.	
	1002	2023/0104221	04-06-2023	Aharon	
	1003	2023/0123145	04-20-2023	Ko	

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]
	1004	AT 400305	12-27-1995	Devida Ges MBH		
	1005	AU 1014299	05-31-1999	Greenberg		
	1006	CA 2340154	09-09-2002	Hoffman et al.		
	1007	CN 107920948	04-17-2018	Edge Systems LLC		
	1008	CN 306995346	12-10-2021	Zhu Li		Abs
	1009	DE 234608	04-09-1986	Rath		
	1010	DE 599521	07-04-1934	Strickler et al.		
	1011	DE 2415633	10-16-1975	Nubert Geb KG		Abs

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.	18/094884
	Filing Date	January 9, 2023
	First Named Inventor	Ignon, Roger
	Art Unit	3771
(Multiple sheets used when necessary)	Examiner	Unassigned
SHEET 36 OF 40	Attorney Docket No.	EDGE.005C10

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]
	1012	DE 3338057	08-09-1984	Krueger-Beuster		Abs
	1013	DE 3421390	12-12-1985	Schubert		
	1014	DE 3503343	08-14-1986	Frenkel		Abs
	1015	DE 8330191	06-04-1987	Krueger-Beuster		
	1016	DE 3740902	12-22-1988	Schlicksupp		Abs
	1017	DE 4237940	05-19-1993	Berens et al.		Abs
	1018	DE 29808395	08-27-1998	Ionto-Comed GmbH		
	1019	DE 10-2004-015815	11-03-2005	Bundersrepublik Deutschland		
	1020	EP 0258901	09-03-1987	Tonokura Ika Kogyo Co. LTD		
	1021	EP 0564392	03-03-1993	Fructuoso Martinez		
	1022	EP 0784997	07-23-1997	Koblinger Gerald Ing		Abs
	1023	EP 1238643	04-07-2000	S.O.R Internacional		
	1024	EP 1453558	09-08-2004	Envy Medical, Inc.		
	1025	EP 2106780	03-09-2016	Pomar		
	1026	EP 2865867	05-04-2016	Delavan Inc.		
	1027	EP 2206483	07-14-2010	Andrea Uterstaedt		Abs
	1028	EP 2240099	02-21-2018	Edge Systems LLC.		
	1029	EP 2451367	01-22-2020	Edge Systems LLC.		
	1030	EP 2544563	09-16-2015	LRC Products Limited		
	1031	EP 2618797	04-08-2020	Sharon Hilditch		
	1032	EP 2967633	04-25-2018	Edge Systems LLC		
	1033	EP 3217899	05-19-2016	CYTRELLIS BIOSYSTEMS INC		
	1034	EP 3237055	08-12-2020	Edge Systems LLC		
	1035	EP 3302319	04-11-2018	Koninklijke Philips N.V.		
	1036	EP 3319573	05-16-2018	Edge Systems LLC		
	1037	EP 3340908	07-04-2018	Koninklijke Philips N.V.		
	1038	EP 3388006	03-04-2020	Edge Systems LLC		

Examiner Signature	Date Considered
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PTO/SB/08 Equivalent

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SHEET 37 OF 40	Attorney Docket No.	EDGE.005C10

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	1039	EP 3437575	04-21-2021	Edge Systems LLC.		
	1040	EP 3795204	03-24-2021	Edge Systems LLC.		
	1041	ES 1037776	04-01-1998	Concustell Gonfaus		Abs
	1042	EU Des. 8794184-0001	12-13-2021	Stallvärme Sverige AB		
	1043	FR 2712172	05-19-1995	Rabier		Abs
	1044	FR 2773461	07-16-1999	Favie Alain		Abs
	1045	GB 1372609	10-30-1974	Forenade Fabrik-Sverken		
	1046	GB 2306351	05-07-1997	Inahara		
	1047	IT 553076	12-01-1956	Facconi		
	1048	IT 1184922	03-22-1985	Porqueddu		
	1049	JP H05-042060	02-23-1993	Hara		X
	1050	JP (53-118927) S55-034863	08-29-1963			
	1051	JP1993-088552	12-03-1993	Sumitomo Bakelite Co., Ltd.		
	1052	JP 1997-294747	11-18-1997	Fukutaro, Yamazaki		
	1053	JP 2003-339713	12-02-2003	Twinbird Corp		
	1054	JP 2003-534881	11-25-2003	Becton, Dickinson and Company		Abs
	1055	JP 2004-275721	10-07-2004	Matsushita Electric Works		
	1056	JP 2006-503627 (English abstract of WO 2004/037098)	02-02-2006	Bionoface		
	1057	JP 2006-204767	10-08-2006	Matsushita Electric Works		
	1058	JP 2012-527967	11-12-2012	General Hospital Corp		
	1059	JP D1581877	07-24-2017	Lexington International LLC		X
	1060	JP 2018-527052	09-20-2018	Edge Systems LLC		
	1061	KR 10-1836310	03-02-2018	Edge Systems LLC		

Examiner Signature	Date Considered
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	1062	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		X
	1063	KR 10-20070070173	07-03-2007	Dermanew Inc.		Abs
	1064	KR 10-2018-0030607	03-23-2018	Edge Systems LLC		
	1065	TW D214226	09-21-2021	Baoliwang Health Technology Co., Ltd.		X
	1066	WO 1994/024980	11-10-1994	D+P Cosmetics AG		
	1067	WO 1997/011650	03-04-1997	Cawley		
	1068	WO 2000/015300	03-23-2000	Ultra Cure Ltd		
	1069	WO 2000/79540	12-28-2000	DAUGHTON JAMES M; NONVOLATILE ELECTRONICS INC; POHM ARTHUR V		
	1070	WO 2001/93931	12-13-2001	Becton, Dickinson and Company		
	1071	WO 2003/073917	09-12-2003	Edge Systems		
	1072	WO 2004/037098	05-06-2004	Bionoface		
	1073	WO 2005/061042	07-07-2005	CMS Co., Ltd.		X
	1074	WO 2005/070313	08-04-2005	Crystal Clear International Limited		
	1075	WO 2006/018731	02-23-2006	Mc Anton Holding SA		
	1076	WO 2006/031413	03-23-2006	Dermanew Inc.		
	1077	WO 2007/114904	10-11-2007	Amcol International Corporation		
	1078	WO 2008/012324	01-31-2008	Maurizio Busoni		
	1079	WO 2009/088884	07-16-2009	Edge Systems Corporation	JP 5508285 WO 2009/088884	
	1080	WO 2009/097451	08-06-2009	Edge Systems Corporation		

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SHEET 39 OF 40	Attorney Docket No.	EDGE.005C10

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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	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear	T[1]
	1081	WO 2010/068960	06-24-2010	Silverbrook Research Pty Ltd		
	1082	WO 2011/006009	01-13-2011	Edge Systems Corporation		
	1083	WO 2011/110840	09-15-2011	LRC Products Limited		
	1084	WO 2012/145667	10-26-2012	Sun-Less, Inc.		
	1085	WO 2013/030117	03-07-2013	Medic Activ Vertriebs GMBH		
	1086	WO 2014/091035	06-19-2014	Decaux		
	1087	WO 2014/151104	09-25-2014	Edge Systems LLC		
	1088	WO 2016/052818	04-07-2016	LG Electronics Inc.		
	1089	WO 2016/106396	06-30-2016	Edge Systems LLC		
	1090	WO 2017/007939	01-12-2017	Edge Systems LLC		
	1091	WO 2017/111481	06-29-2017	Amore Pacific Co., Ltd.		X
	1092	WO 2021/018765	02-04-2021	L'Oreal		
	1093	WO 2021/113343	06-10-2021	Sorrento Therapeutics, Inc.		
	1094	WO 2022/099318	05-12-2022	Edge Systems LLC		
	1095	WO 2023/039524	03-16-2023	Hydrafacial LLC		
	1096	CA 2784209	08-04-2011	KCI Licensing Inc		
	1097	CN 1708261	12-14-2005	Palomar Medical Technologies, Inc.		X
	1098	EP 0479121	04-08-1992	Fidia SpA		
	1099	EU Des. 8880371-0001	05-20-2022	Edge Systems LLC		
	1100	GB 2585500	01-13-2021	Tube Tech International Limited		
	1101	JP 2013-215621	10-24-2013	Corium International Inc.		X
	1102	JP D1609357	06-22-2018	Pocket Sky OG		X
	1103	WO 1997/000707	01-09-1997	Chattanooga Group, Inc.		
	1104	WO 2004/108091	12-16-2001	Board of Regents, The Universioty of Texas System		

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SHEET 40 OF 40	Attorney Docket No.	EDGE.005C10

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	1105	WO 2004/037287	05-06-2004	Palomar Medical Technologies, Inc.		
	1106	WO 2009/086182	07-09-2009	Carticept Medical, Inc.		
	1107	WO 2010/022396	02-25-2010	Envy Medical, Inc.		
	1108	WO 2010/151704	12-29-2010	Carticept Medical, Inc.		
	1109	WO 2023/064718	04-20-2023	Hydrafacial 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]
	1110	Amazon, FAZJEUNE 7 Color LED Light, LED Face Mask Skin Rejevenation PDT Photon Facial Skin Care Mask Skin Tightening Lamp SPA Face Device Beauty Salon Equipment Anti-aging Remove Wrinkle, Customer reviewed on 9/2020, retrieved from internet at https://www.amazon.com/FAZJEUNE-Rejuvenation-Tightening-Equipment-Anti-aging/dp/B08B4M8RQQ/ref=psdc_11061121_t3_B08ZSPZSF4	
	1111	File History of Reissue Application No. 11/027,590, filed December 29, 2004 (Reissue of U.S. Patent No. 6,500,183, issued December 31, 2002).	
	1112	File History of Reexamination No. 90/007,683 (Reexamination of U.S. Patent No. 6,241,739, issued June 5, 2001).	
	1113	File History of Reexamination No. 90/013,284 filed July 2, 2014 (Reexamination of US Patent No. 6,241,739, issued June 5, 2001).	
	1114	COX III et al., Decreased Splatter in Dermabrasion, Arch Facial Plastic Surgery, Jan-Mar 2000, Vol. 2, pp. 23-26	
	1115	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.	
	1116	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.	
	1117	HYDRAFACIAL® TOWER - User guide. Edge Systems. Revised june 23, 2016. Page no. 16.	
	1118	Microdermabrader Pepita Instruction Manual, Mattioli Engineering S.R.L., PEP_USA2.doc Rev 1.1, 09-29-1997	
	1119	Beautimate adjustable Hydra Needle Microneedling Serium Applicator, https://www.beautimate.com/products/adjustable-hydra-needle, first accessed August 12, 2023.	
	1120	Hydrafacial Hydropeel Vortex Fusion Tips, https://mergesouq.com/products/hydrafacial-hydropeel-vortex-fusion-tips, first accessed August 12, 2023.	

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Examiner Signature	Date Considered
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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.
18/094,884	01/09/2023	Roger Ignon	EDGE.005C10	9223

20995 7590 08/24/2023

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

EXAMINER
CENTRAL, DOCKET

ART UNIT	PAPER NUMBER
3771	

NOTIFICATION DATE	DELIVERY MODE
08/24/2023	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):

cassie.wolf@knobbe.com
efiling@knobbe.com

UNITED STATES PATENT AND TRADEMARK OFFICE

Commissioner for Patents
United States Patent and Trademark Office
P.O. Box 1450
Alexandria, VA 22313-1450
www.uspto.gov

In re Application of	:	
Ignon et al.	:	
Application No. 18/094,884	:	DECISION ON PETITION
Filed: January 09, 2023	:	TO MAKE SPECIAL UNDER
For: DEVICES AND METHODS FOR TREATING SKIN	:	37 CFR 1.102(c)(1)
	:	

This is a decision on the petition under 37 CFR 1.102(c)(1), filed July 12, 2023, to make the above-identified application special based on applicant's age as set forth in MPEP § 708.02, Section II.

There is no indication that the petition is signed by a registered patent attorney or patent agent of record. However, in accordance with 37 CFR 1.34, the signature of Daniel M. Mittelstein appearing on the correspondence shall constitute a representation to the United States Patent and Trademark Office that he or she is authorized to represent the particular party on whose behalf he or she acts.

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 from a registered practitioner that he or she has evidence that a joint inventor is 65 years of age or older. Accordingly, the above-identified application has been accorded "special" status.

Telephone inquiries concerning this decision should be directed to Jamice Brantley at 571-272-3814.

/JAMICE T BRANTLEY/
Jamice T Brantley
Paralegal Specialist, Office of Petitions

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	18/094884	Confirmation Number	9223	Filing Date	2023-01-09
Attorney Docket Number (optional)	EDGE.005C10	Art Unit	Unassigned	Examiner	Unassigned
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	/Daniel M Mittelstein/	Date (YYYY-MM-DD)	2023-07-12
Name	Daniel M. Mittelstein	Registration Number	79,750

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.

PRELIMINARY AMENDMENT

First Inventor: Ignon, Roger	**Conf. No.:** 9223
App. No.: 18/094884	**Filed:** January 9, 2023
Examiner: Unassigned	**Art Unit:**
Title: DEVICES AND METHODS FOR TREATING SKIN	

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

Dear Commissioner:

Prior to the substantive examination of the above-referenced application, please consider the following.

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

Remarks begin on page 7 of this paper.

AMENDMENTS TO THE CLAIMS

Please find below amendments to the claims. Additions are underlined (e.g., addition) and removals are bracketed or struck through (e.g., [[removal]] or ~~removed text~~).

1. (Cancelled)
2. (New) A system for treating skin, the system comprising:

a console configured to receive a first container and at least one additional container;

a handpiece configured to contact skin tissue of a subject;

a block in the console, wherein the block is:

configured to selectively receive fluid from the first container when the first container is connected to the console;

configured to selectively receive fluid from the at least one additional container when the at least one additional container is connected to the console; and,

configured to selectively be in fluid communication with the handpiece through a first conduit when the handpiece is connected to the console;

a vacuum source; and

wherein the handpiece is configured to be in fluid communication with the vacuum source through a second conduit when the handpiece is connected to the console.

3. (New) The system of Claim 2,

wherein the console comprises the vacuum source;

wherein the handpiece is in fluid communication with the vacuum source and a waste container through the second conduit; and

wherein the system is configured to deliver a first treatment fluid contained in the first container and an additional treatment fluid contained in the at least one additional container to the handpiece sequentially.

4. (New) The system of Claim 2,

wherein the system is configured to combine in the block a first treatment fluid contained in the first container and an additional treatment fluid contained in the at least one additional container to create a mixture of treatment fluid.

5. (New) The system of Claim 4,

wherein the console comprises the vacuum source;

wherein the handpiece is in fluid communication with the vacuum source and a waste container through the second conduit; and

wherein the system is configured to deliver the mixture of treatment fluid to the handpiece sequentially.

6. (New) The system of Claim 2, wherein the at least one additional container comprises a second container and a third container such that the console is configured to receive at least three containers.

7. (New) The system of Claim 6,

wherein when the handpiece is connected to the console and the first container, the second container and the third container each contains fluid and is connected to the console, the system is configured to deliver to the handpiece one at a time fluid contained in the first container, fluid contained in the second container, and fluid contained in the third container.

8. (New) The system of Claim 2, further comprising a computing device configured to control at least one function of the system.

9. (New) The system of Claim 8, further comprising a user input device to select a flow of fluids from the first container and the at least one additional container to the handpiece.

10. (New) The system of Claim 9, wherein the user input device comprises a touch screen.

11. (New) The system of Claim 10, further comprising a display.

12. (New) The system of Claim 2, wherein the block is configured to control a flow of a first treatment fluid contained in the first container and an additional treatment fluid contained in the at least one additional container into the block with a valve when the first container and the at least one additional container are connected to the console.

13. (New) The system of Claim 2, wherein the system is configured to control a flow of a first treatment fluid contained in the first container to the handpiece through the block when each of the first container and the handpiece is connected to the console.

14. (New) The system of Claim 13, wherein the system is configured to separately control a flow of a second treatment fluid contained in the at least one additional container to the handpiece through the block when each of the first container, the at least one additional container, and the handpiece are connected to the console.

15. (New) A skin treatment apparatus comprising:

a console that includes a fluid control member that is configured to be in fluid communication with at least a first container and a second container when the first container and the second container are connected to the fluid control member;

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

a waste conduit configured to be in fluid communication with the handpiece assembly and a vacuum source to move waste away from the handpiece assembly when the handpiece assembly is connected to the console; and

wherein when each of the first container and the second container are connected to the console, the fluid control member is configured to be in fluid communication with each of the first container and the second container;

wherein when the handpiece assembly is connected to the console, the fluid control member is configured to be in fluid communication with the handpiece assembly;

wherein when (i) each of the first container and the second container contains treatment material, (ii) the first container and the second container are connected to the console, and (iii) the handpiece assembly is connected to the console, the skin treatment apparatus is configured to selectively draw treatment material from the first container or the second container to the handpiece assembly using, at least in part, a vacuum created along a distal end of the handpiece assembly by the vacuum source.

16. (New) The skin treatment apparatus of Claim 15, wherein treatment material from the first container and the second container are configured to be drawn to the handpiece assembly sequentially.

17. (New) The skin treatment apparatus of claim 15, wherein treatment material from the first container and the second container are configured to be drawn the handpiece assembly simultaneously.

18. (New) The skin treatment apparatus of Claim 15, wherein the console comprises the vacuum source.

19. (New) The skin treatment apparatus of Claim 15, wherein the skin treatment apparatus is configured to deliver a single treatment material from the first container to a patient's skin.

20. (New) The skin treatment apparatus of Claim 15, wherein the treatment material in the first container is a skin treatment fluid.

21. (New) The skin treatment apparatus of Claim 15, further comprising a computing device configured to control at least one function of the skin treatment apparatus.

22. (New) The skin treatment apparatus of Claim 21, further comprising a user input device to facilitate control of a flow of treatment materials from at least one of the first container and the second container to the handpiece assembly.

23. (New) The skin treatment apparatus of Claim 22, wherein the user input device comprises a touch screen.

24. (New) The skin treatment apparatus of Claim 23, further comprising a display.

25. (New) The skin treatment apparatus of Claim 15, wherein the fluid control member includes a first switch corresponding to the first container and a second switch corresponding to the second container, the first switch and the second switch configured to permit or prevent flow from the first container and the second container to independently control flow from each of the first container and the second container.

26. (New) A system for treating skin, the system comprising:

a console configured to receive a first container and at least one additional container;

a collection lumen configured to be in fluid communication with the first container and the at least one additional container when the first container and the at least one additional container are connected to the console; and

a handpiece having a working end, the working end of the handpiece being configured to contact skin tissue of a subject during use;

wherein the working end of the handpiece is configured to be placed in fluid communication with a vacuum source to create a suction force along a distal end of the handpiece when the vacuum source is activated and the handpiece is connected to the console and wherein the working end of the handpiece is configured to be placed in fluid

communication with the first container or the at least one additional container through the collection lumen.

27. (New) The system of Claim 26,

wherein the console comprises the vacuum source;

wherein the handpiece is in fluid communication with the vacuum source and a waste container through a waste conduit when the handpiece is connected to the console; and

wherein the system is configured to deliver a first treatment fluid contained in the first container and an additional treatment fluid contained in the at least one additional container to the handpiece sequentially or simultaneously.

28. (New) The system of Claim 26, further comprising a supply conduit that places the collection lumen in fluid communication with the working end of the handpiece.

29. (New) The system of Claim 28, wherein the first container and the at least one additional container include treatment materials and the treatment materials from the first container and the at least one additional container are configured to be delivered to the supply conduit sequentially.

30. (New) The system of Claim 26, further comprising a computing device configured to control at least one function of the system.

31. (New) The system of Claim 30, further comprising a user input device to facilitate control of a flow of fluids from the first container and at least one additional container to the handpiece.

REMARKS

Claim 1 has been cancelled and new claims 2-31 have been added. No new subject matter is believed to have been added to the present application by way of the amendments or new claims. Support for the amendments can be found throughout the application as originally filed. Applicant reserves the right to pursue the previously pending claims and/or subject matter of the previously pending claims in this or another application. Accordingly, Claims 2-31 are presented for consideration. Identification herein is not an admission that any of the references are prior art to the above captioned 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.

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

Attorney Docket No.	App. No. (Pat. No., if appl.)	Filing Date	Title
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
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 (Pat. No. 11,446,477)	July 19, 2019	DEVICES AND METHODS FOR TREATING SKIN
EDGE.005C8	17/165,820 (Pat. No. 11,547,840)	Feb. 2, 2021	DEVICES AND METHODS FOR TREATING SKIN
EDGE.005C9	17/165,807 (Pat. No. 11,612,726)	Feb. 2, 2021	DEVICES AND METHODS FOR TREATING SKIN
EDGE.005C10	**18/094,884** ***(present application)***	**Jan. 9, 2023**	**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.044C3	17/952,569	Sep. 26, 2022	DEVICES, SYSTEMS, AND METHODS FOR TREATING THE SKIN
EDGE.044C4	17/952,665	Sep. 26, 2022	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

Attorney Docket No.	App. No. (Pat. No., if appl.)	Filing Date	Title
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
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.077C3	17/952,721	Sep. 26, 2022	DEVICES, SYSTEMS, AND METHODS FOR TREATING THE SKIN
EDGE.077C4	17/952,676	Sep. 26, 2022	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 (Pat. No. 11,517,350)	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

Attorney Docket No.	App. No. (Pat. No., if appl.)	Filing Date	Title
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.131NP	18/035,723	May 5, 2023	DEVICES, SYSTEMS AND METHODS FOR TREATING THE SKIN
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
EDGE.180DA	29/811,070	Oct. 11, 2021	SKIN TREATMENT TIP
EDGE.205DA	29/,826,153	Feb. 9, 2022	DUAL TREATING DEVICE FOR TREATING ACNE OR WRINKLES
EDGE.205DC1	29/854,067	Sep. 21, 2022	TREATMENT DEVICE FOR SKIN
EDGE.212DA	29/884,441	Feb. 10, 2023	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.

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: July 12, 2023

By: /daniel m mittelstein/
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Registered Practitioner
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57918453

Electronic Patent Application Fee Transmittal

Application Number:	18094884
Filing Date:	09-Jan-2023
Title of Invention:	DEVICES AND METHODS FOR TREATING SKIN
First Named Inventor/Applicant Name:	Roger Ignon
Filer:	Daniel M Mittelstein/Caroline Bialeck
Attorney Docket Number:	EDGE.005C10

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:				
CLAIMS IN EXCESS OF 20	1202	10	100	1000
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Extension-of-Time:				
Miscellaneous:				
			Total in USD ($)	**1000**

Electronic Acknowledgement Receipt	
EFS ID:	48288771
Application Number:	18094884
International Application Number:	
Confirmation Number:	9223
Title of Invention:	DEVICES AND METHODS FOR TREATING SKIN
First Named Inventor/Applicant Name:	Roger Ignon
Customer Number:	20995
Filer:	Daniel M Mittelstein/Jennifer Neat
Filer Authorized By:	Daniel M Mittelstein
Attorney Docket Number:	EDGE.005C10
Receipt Date:	12-JUL-2023
Filing Date:	09-JAN-2023
Time Stamp:	20:39:49
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	E20237BK40237022
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	Petition to make special based on Age/ Health	EDGE005C10_Petition_to_Make_Special.pdf	184174 817bd2dc6aa210d2500dd647dad4fe00d848248e	no	2
Warnings:					
Information:					
2		EDGE005C10_Preliminary_Amendment.pdf	74370 fad41e2c4339281460ad48c0454f6638a9c6e3c6	yes	11

Multipart Description/PDF files in .zip description

Document Description	Start	End
Preliminary Amendment	1	1
Claims	2	6
Applicant Arguments/Remarks Made in an Amendment	7	11

Warnings:					
Information:					
3	Fee Worksheet (SB06)	fee-info.pdf	37640 4b017fa79e01b403f321a3e7cb094c3997f89525	no	2
Warnings:					
Information:					
		Total Files Size (in bytes):	296184		

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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.

Electronic Acknowledgement Receipt	
EFS ID:	48288771
Application Number:	18094884
International Application Number:	
Confirmation Number:	9223
Title of Invention:	DEVICES AND METHODS FOR TREATING SKIN
First Named Inventor/Applicant Name:	Roger Ignon
Customer Number:	20995
Filer:	Daniel M Mittelstein/Jennifer Neat
Filer Authorized By:	Daniel M Mittelstein
Attorney Docket Number:	EDGE.005C10
Receipt Date:	12-JUL-2023
Filing Date:	09-JAN-2023
Time Stamp:	20:39:49
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	E20237BK40237022
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	Petition to make special based on Age/ Health	EDGE005C10_Petition_to_Make_Special.pdf	184174 817bd2dc6aa210d2500dd647dad4fe00d848248e	no	2
Warnings:					
Information:					
2		EDGE005C10_Preliminary_Amendment.pdf	74370 fad41e2c4339281460ad48c0454f6638a9c6e3c6	yes	11

Multipart Description/PDF files in .zip description

Document Description	Start	End
Preliminary Amendment	1	1
Claims	2	6
Applicant Arguments/Remarks Made in an Amendment	7	11

Warnings:					
Information:					
3	Fee Worksheet (SB06)	fee-info.pdf	37640 4b017fa79e01b403f321a3e7cb094c3997f89525	no	2
Warnings:					
Information:					
		Total Files Size (in bytes):	296184		

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
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PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875	Application or Docket Number 18/094,884	Filing Date 01/09/2023	☐ 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 $100 =	
INDEPENDENT CLAIMS (37 CFR 1.16(h))	minus 3 =	*		x $480 =	
☐ 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	07/12/2023	CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA		RATE ($)	ADDITIONAL FEE ($)
	Total (37 CFR 1.16(i))	* 30	Minus	** 20	= 10		x $100 =	1000
	Independent (37 CFR 1.16(h))	* 3	Minus	*** 3	= 0		x $480 =	0
	☐ Application Size Fee (37 CFR 1.16(s))							
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))							
							TOTAL ADD'L FEE	1000

		(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".	/THERESA D DAWKINS/
*** 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.

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 NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
18/094,884	01/09/2023	Roger Ignon	EDGE.005C10

CONFIRMATION NO. 9223

20995
KNOBBE MARTENS OLSON & BEAR LLP
2040 MAIN STREET
FOURTEENTH FLOOR
IRVINE, CA 92614

PUBLICATION NOTICE



Date Mailed: 05/25/2023

Title:DEVICES AND METHODS FOR TREATING SKIN
Publication No.US-2023-0158282-A1
Publication Date:05/25/2023

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 the applicant. A copy of the publication may be obtained from the Office upon payment of the application 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.upsto.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.

Furhter 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 Management, Application Assistance Unit (571) 272-4000 or (571) 272-4200 or 1-888-786-0101

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 NUMBER	FILING or 371(c) DATE	GRP ART UNIT	FIL FEE REC'D	ATTY.DOCKET.NO	TOT CLAIMS	IND CLAIMS
18/094,884	01/09/2023		1820	EDGE.005C10	1	1

CONFIRMATION NO. 9223

20995
KNOBBE MARTENS OLSON & BEAR LLP
2040 MAIN STREET
FOURTEENTH FLOOR
IRVINE, CA 92614

FILING RECEIPT

OC000000053653466

Date Mailed: 02/15/2023

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)

HydraFacial LLC, Long Beach, CA;

Power of Attorney: None

Domestic Priority data as claimed by applicant

This application is a CON of 17/165,820 02/02/2021 PAT 11,547,840
which is a CON of 16/517,268 07/19/2019 PAT 11,446,477
which is a CON of 15/660,777 07/26/2017 PAT 10,357,642
which is a CON of 15/660,750 07/26/2017 PAT 10,357,641
which is a CON of 14/700,789 04/30/2015 PAT 9,814,868
which is a CON of 14/698,713 04/28/2015 PAT 9,662,482
which is a CON of 14/698,673 04/28/2015 PAT 9,550,052
which is a CON of 13/267,554 10/06/2011 PAT 9,474,886
which is a CON of 11/392,348 03/29/2006 PAT 8,048,089
which claims benefit of 60/764,668 02/02/2006
and claims benefit of 60/755,310 12/30/2005

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: 02/10/2023
The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US 18/094,884**
Projected Publication Date: 05/25/2023
Non-Publication Request: No
Early Publication Request: No
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

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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 United States represents the largest, most dynamic marketplace in the world and is an unparalleled location for business investment, innovation, and commercialization of new technologies. The U.S. offers tremendous resources and advantages for those who invest and manufacture goods here. Through SelectUSA, our nation works to promote and facilitate business investment. SelectUSA provides information assistance to the international investor community; serves as an ombudsman for existing and potential investors; advocates on behalf of U.S. cities, states, and regions competing for global investment; and counsels U.S. economic development organizations on investment attraction best practices. To learn more about why the United States is the best country in the world to develop technology, manufacture products, deliver services, and grow your business, visit http://www.SelectUSA.gov or call +1-202-482-6800.

PATENT APPLICATION FEE DETERMINATION RECORD

Substitute for Form PTO-875

Application or Docket Number: 18/094,884

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			N/A	320
SEARCH FEE (37 CFR 1.16(k), (i), or (m))	N/A	N/A	N/A			N/A	700
EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A	N/A			N/A	800
TOTAL CLAIMS (37 CFR 1.16(i))	1 minus 20 =	* 0			OR	x =	0
INDEPENDENT CLAIMS (37 CFR 1.16(h))	1 minus 3 =	*				x =	0
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
MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))							0
* If the difference in column 1 is less than zero, enter "0" in column 2.			TOTAL			TOTAL	1820

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($)	ADDITIONAL FEE($)		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.

PTO/AIA/14 (11-15)
Approved for use through 04/30/2017. 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.005C10
	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

PTO/AIA/14 (11-15)
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Application Data Sheet 37 CFR 1.76	Attorney Docket Number	EDGE.005C10
	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.005C10	Small Entity Status Claimed	☐
Application Type	Nonprovisional		
Subject Matter	Utility		
Total Number of Drawing Sheets (if any)	25	Suggested Figure for Publication (if any)	

PTO/AIA/14 (11-15)
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Application Data Sheet 37 CFR 1.76	Attorney Docket Number	EDGE.005C10
	Application Number	
Title of Invention	DEVICES AND METHODS FOR TREATING SKIN	

Filing By Reference:

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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	17/165820	2021-02-02

PTO/AIA/14 (11-15)
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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.

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	EDGE.005C10
	Application Number	
Title of Invention	DEVICES AND METHODS FOR TREATING SKIN	

Prior Application Status	Pending			Remove
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)	
17/165820	Continuation of	16/517268	2019-07-19	

Prior Application Status	Patented			Remove
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)	Patent Number	Issue Date (YYYY-MM-DD)
16/517268	Continuation of	15/660777	2017-07-26	10357642	2019-07-23

Prior Application Status	Patented			Remove
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)	Patent Number	Issue Date (YYYY-MM-DD)
15/660777	Continuation of	15/660750	2017-07-26	10357641	2019-07-23

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	14/698713	2015-04-28	9662482	2017-05-30

Prior Application Status	Patented			Remove
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)	Patent Number	Issue Date (YYYY-MM-DD)
14/698713	Continuation of	14/698673	2015-04-28	9550052	2017-01-24

Prior Application Status	Patented			Remove
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)	Patent Number	Issue Date (YYYY-MM-DD)
14/698673	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	60/764668	2006-02-02	

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	

PTO/AIA/14 (11-15)
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Application Data Sheet 37 CFR 1.76	Attorney Docket Number	EDGE.005C10
	Application Number	
Title of Invention	DEVICES AND METHODS FOR TREATING SKIN	

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).

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Application Number	Country[i]	Filing Date (YYYY-MM-DD)	Access Code[i] (if applicable)

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Application Data Sheet 37 CFR 1.76	Attorney Docket Number	EDGE.005C10
	Application Number	
Title of Invention	DEVICES AND METHODS FOR TREATING SKIN	

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	Application Number	
Title of Invention	DEVICES AND METHODS FOR TREATING SKIN	

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Signature	/Theodore G. Papagiannis/			Date (YYYY-MM-DD)	2023-01-09
First Name	Theodore G.	Last Name	Papagiannis	Registration Number	61,546

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DEVICES AND METHODS FOR TREATING SKIN

Reference to Related Applications

[0001] This is a continuation of U.S. Patent Application No. 17/165,820 filed February 2, 2021, which is a continuation of U.S. Patent Application No. 16/517,268 filed July 19, 2019 and issued as U.S. Patent No. 11,446,477 on September 20, 2022, which is a continuation of U.S. Patent Application No. 15/660,750 filed July 26, 2017 and issued as U.S. Patent No. 10,357,641 on July 23, 2019, which is a continuation of U.S. Patent Application No. 14/700,789 filed April 30, 2015 and issued as U.S. Patent No. 9,814,868 on November 14, 2017, which is a continuation of U.S. Patent Application No. 13/267,554 filed October 6, 2011 and issued as U.S. Patent No. 9,474,886 on October 25, 2016, which is a continuation of U.S. Patent Application No. 11/392,348 filed March 29, 2006 and issued as U.S. Patent No. 8,048,089 on November 1, 2011, 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.

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

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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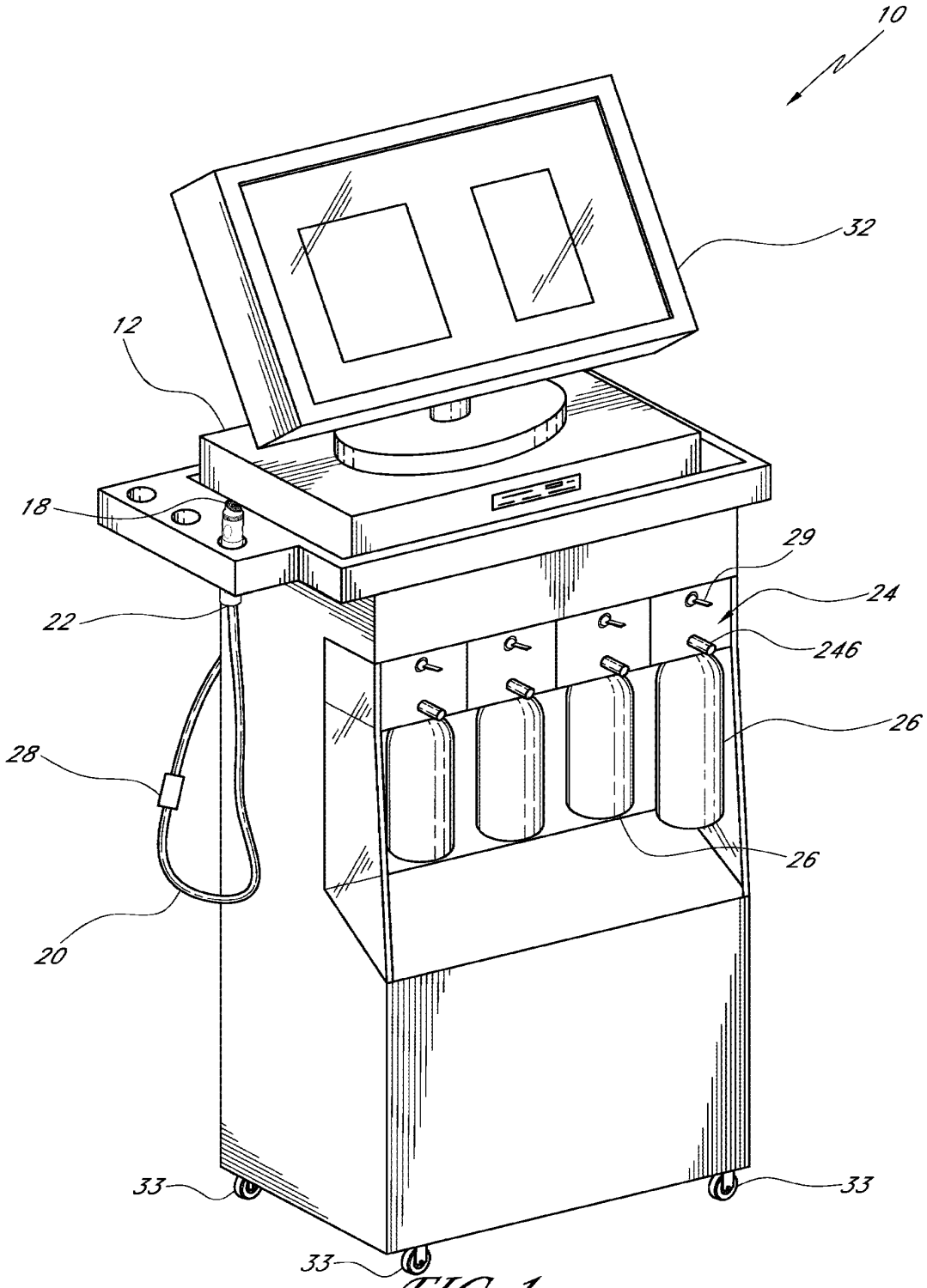


FIG. 1

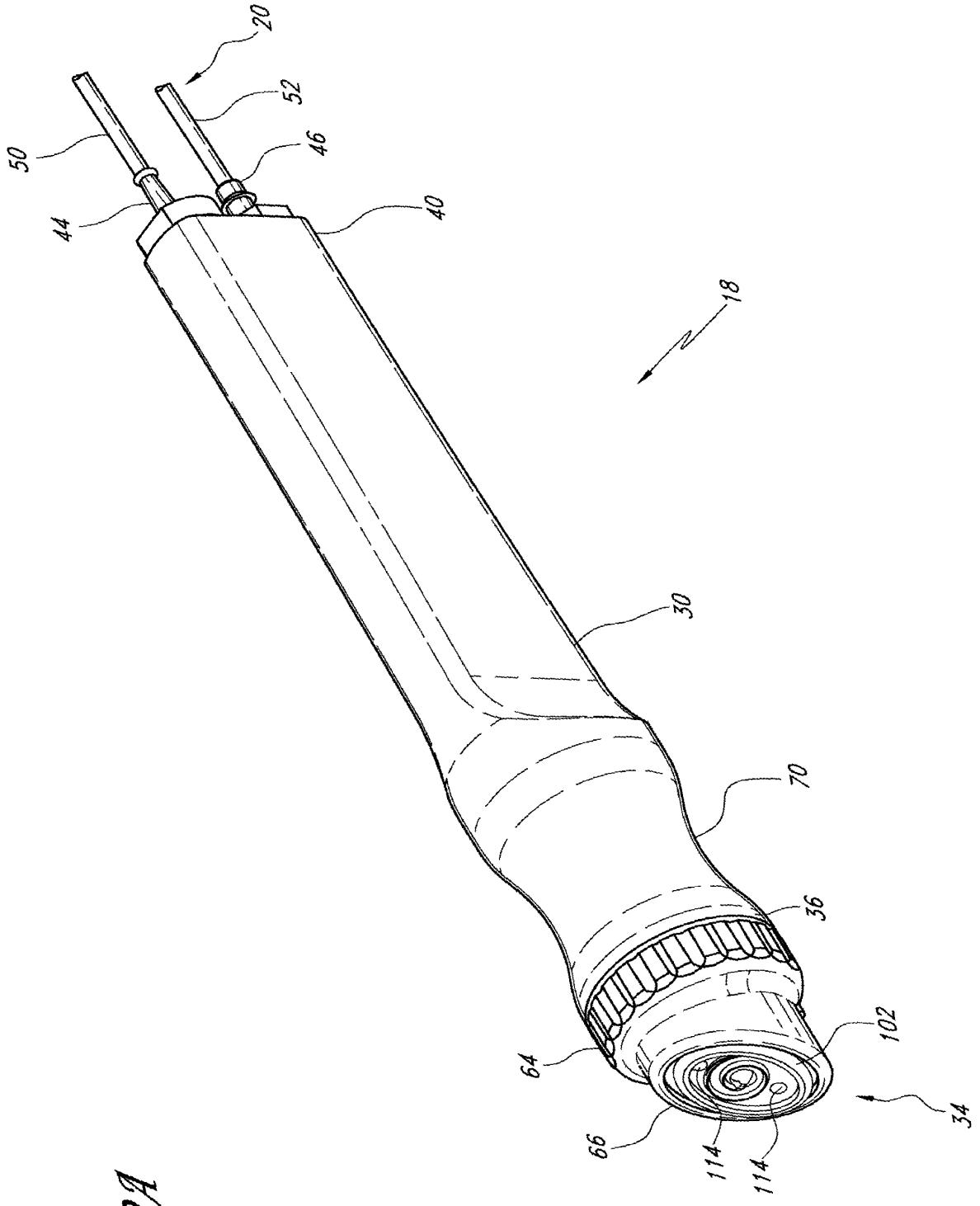


FIG. 2A

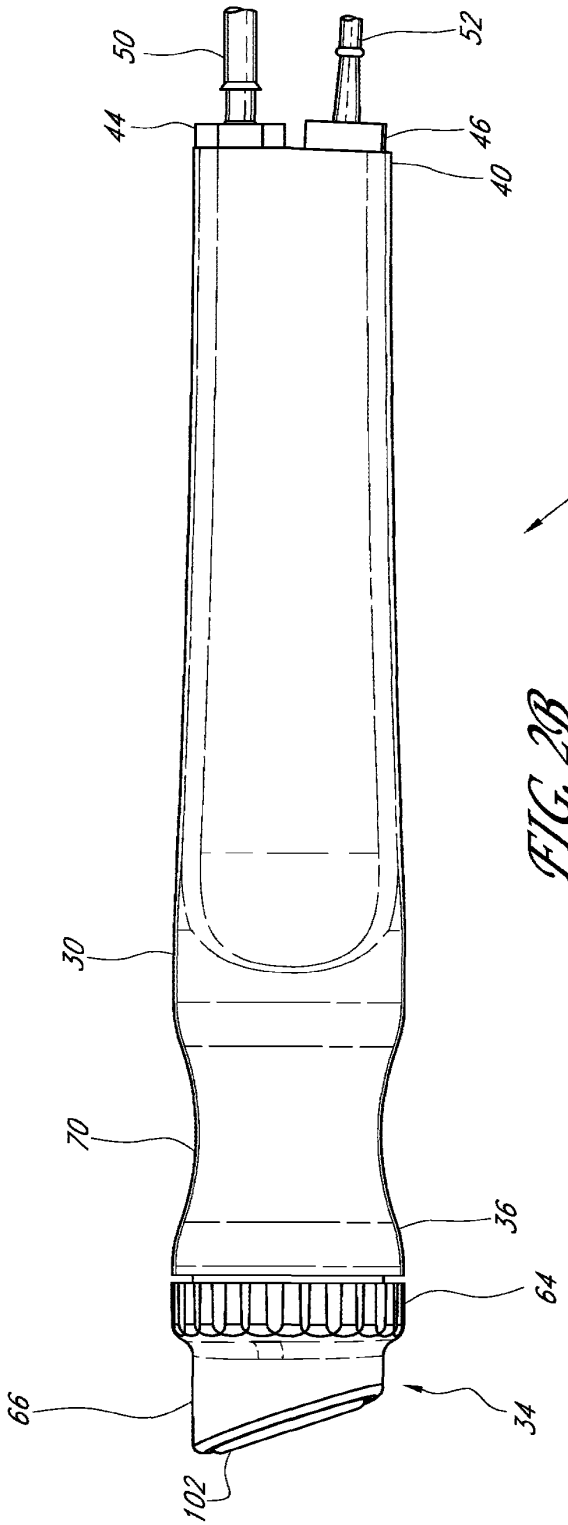


FIG. 2B

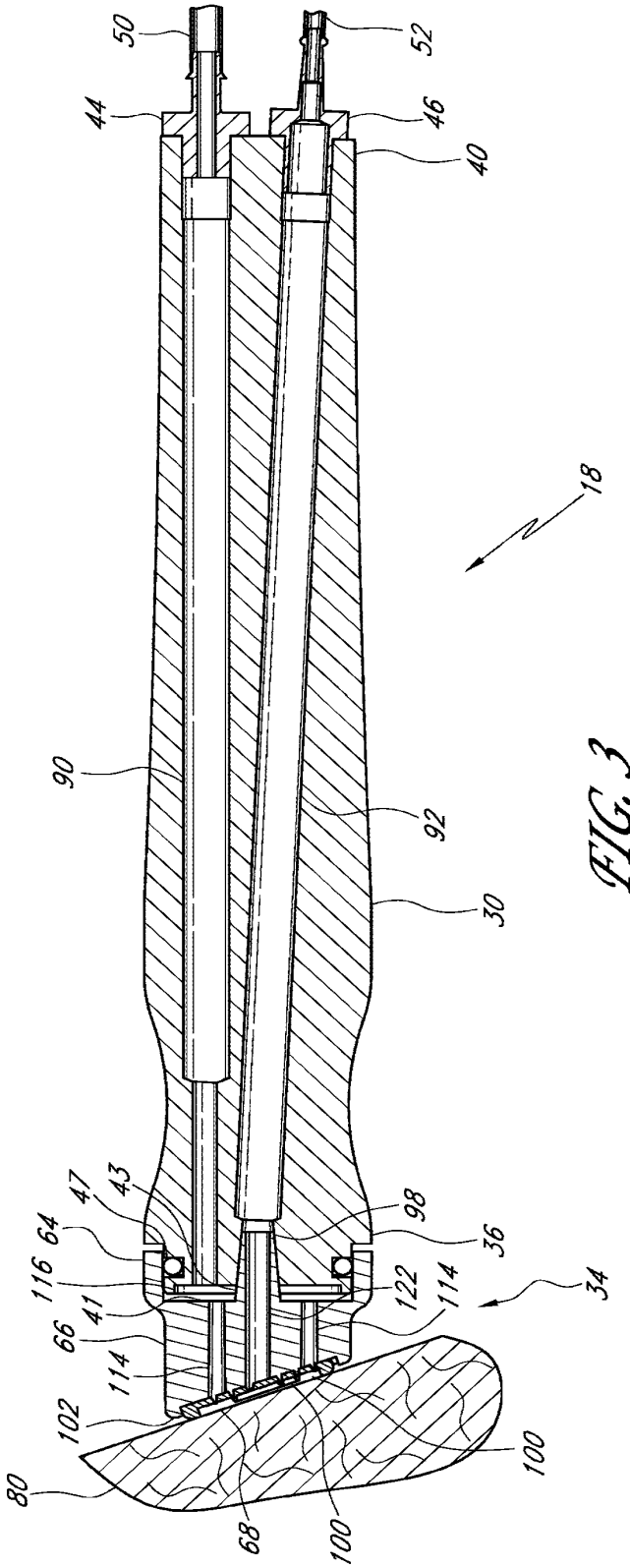

50
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46
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122
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34
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66
114
102
100
80
68
100

FIG. 3

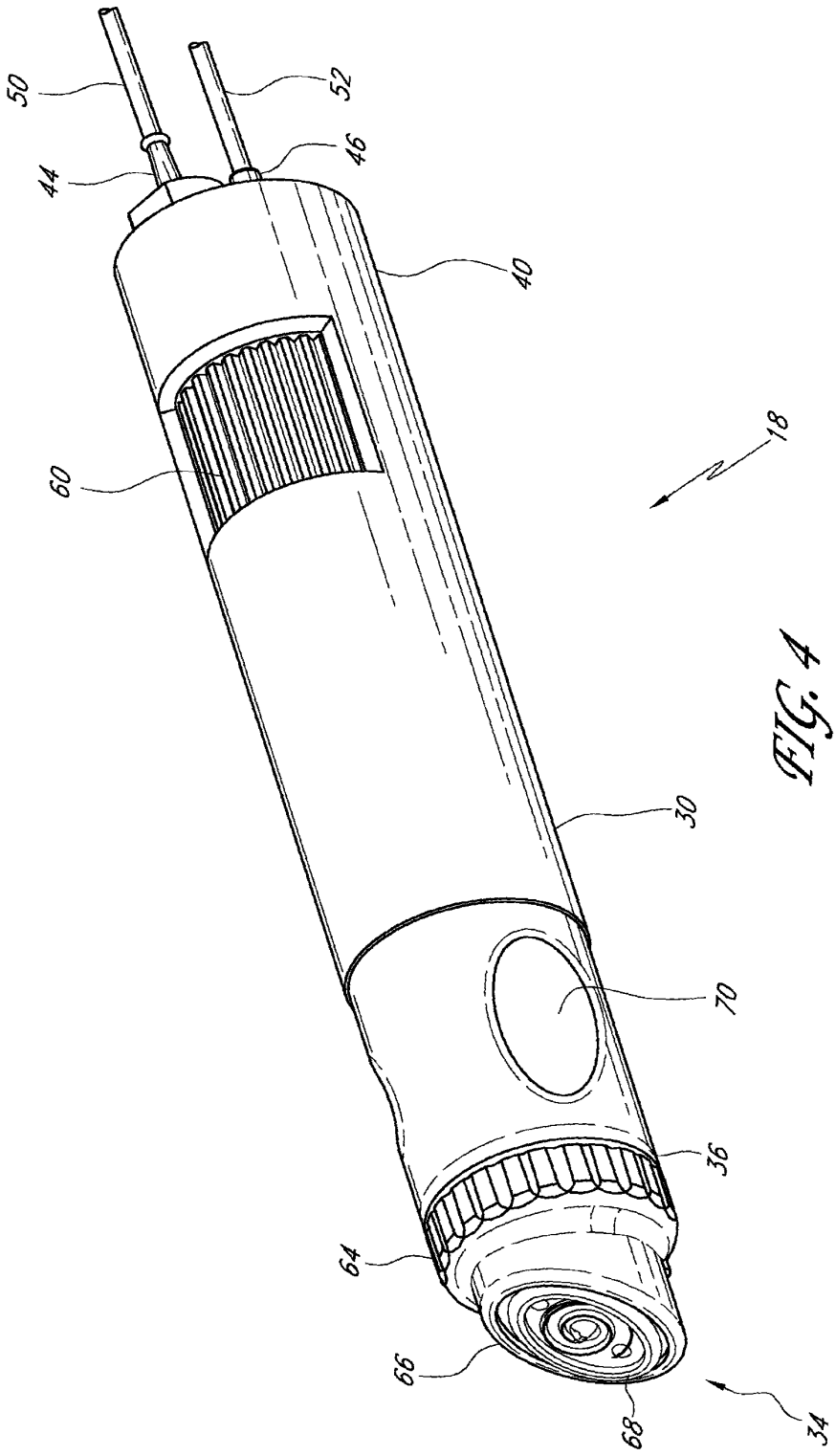


FIG. 4

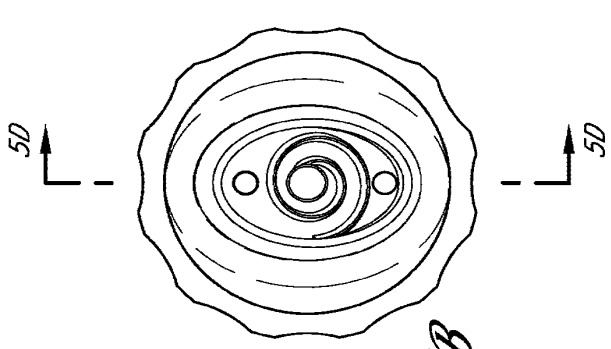


FIG. 5B

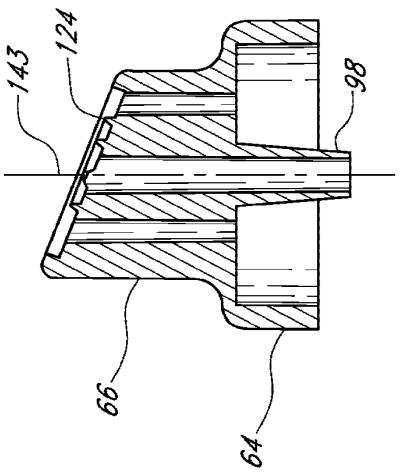


FIG. 5D

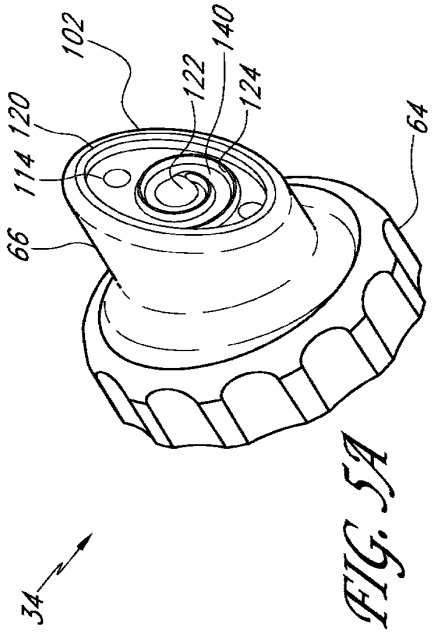


FIG. 5A

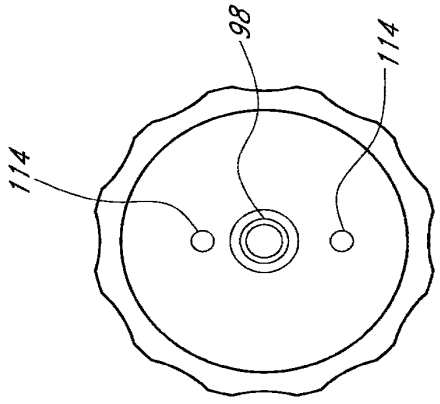


FIG. 5C

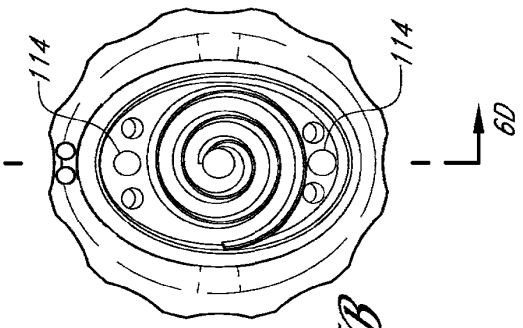


FIG. 6B

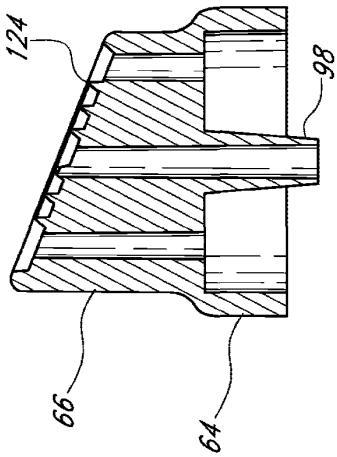


FIG. 6D

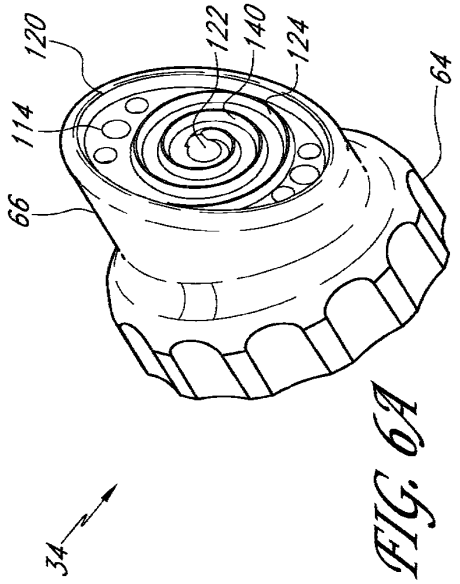


FIG. 6A

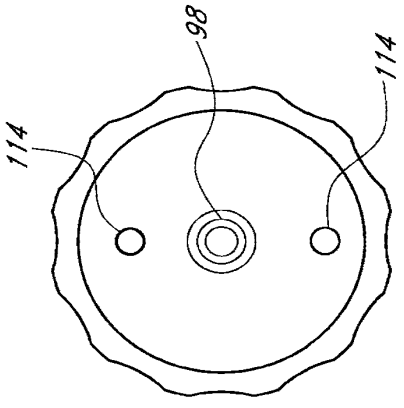


FIG. 6C

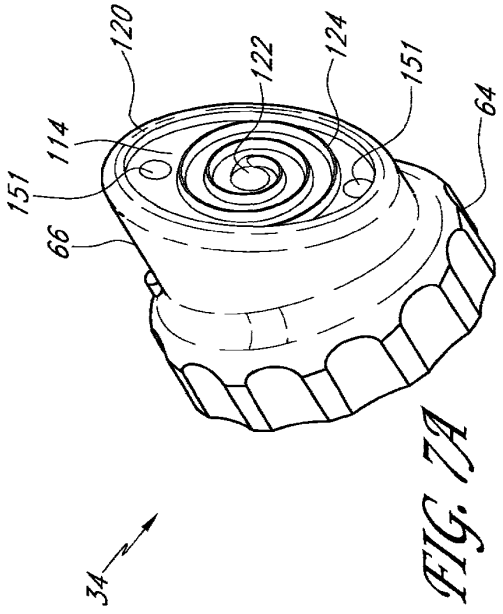


FIG. 7A

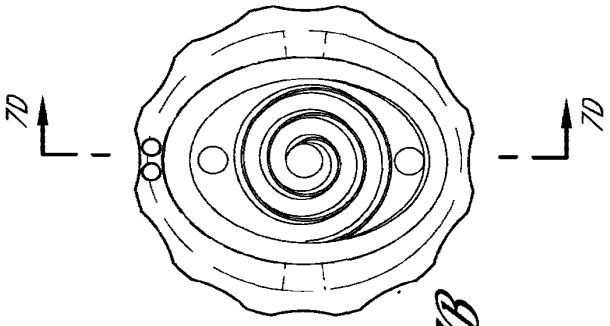


FIG. 7B

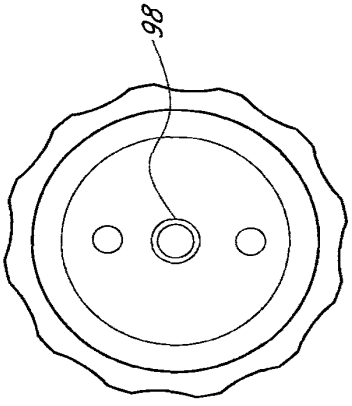


FIG. 7C

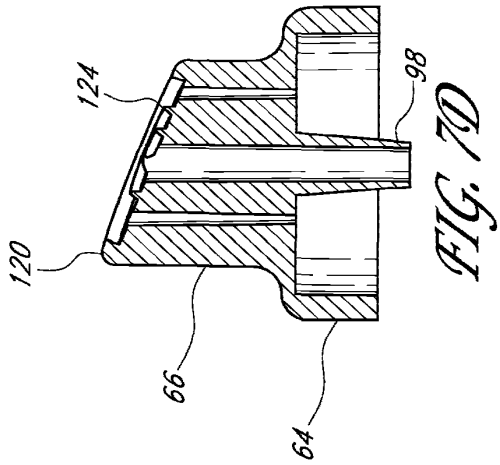


FIG. 7D

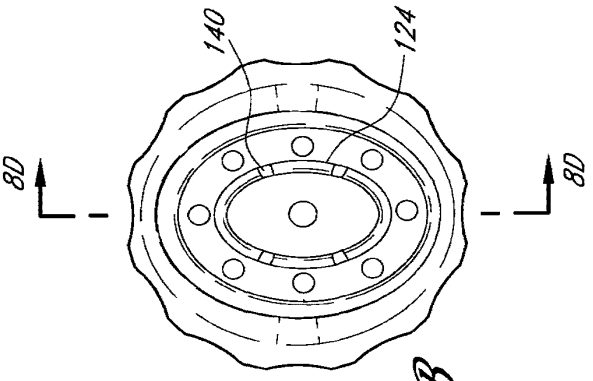


FIG. 8B

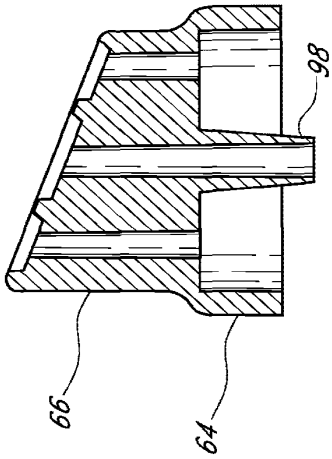


FIG. 8D

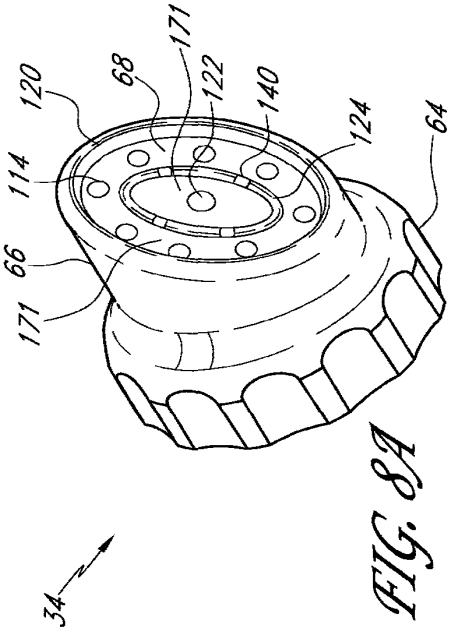


FIG. 8A

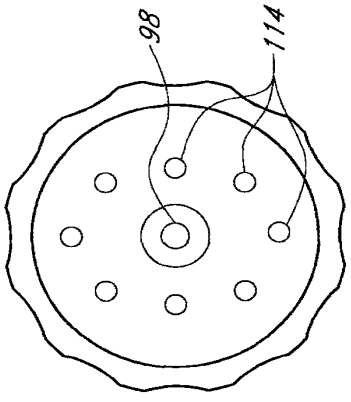


FIG. 8C

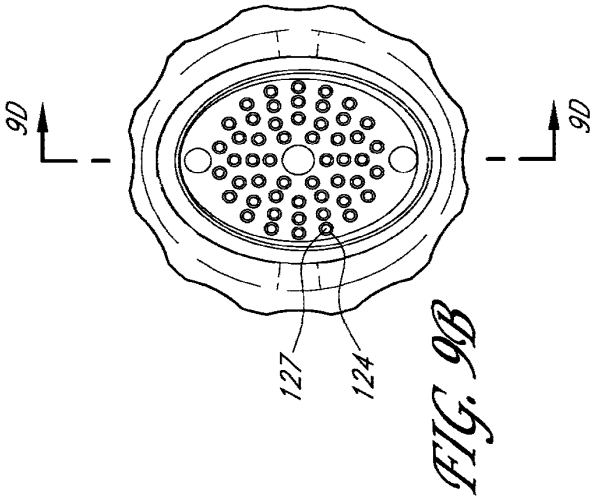


FIG. 9B

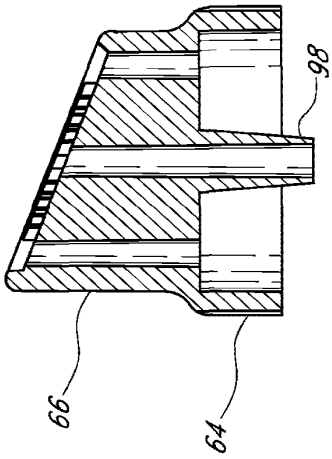


FIG. 9D

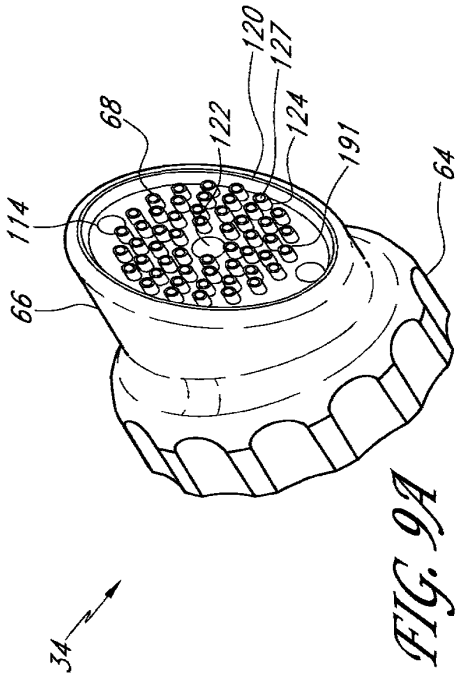


FIG. 9A

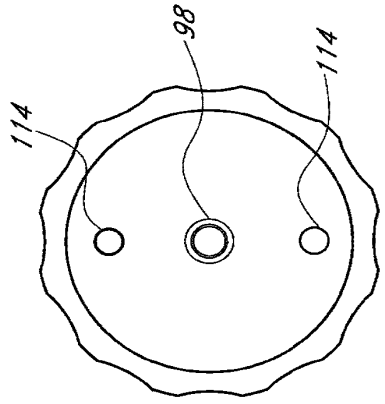


FIG. 9C

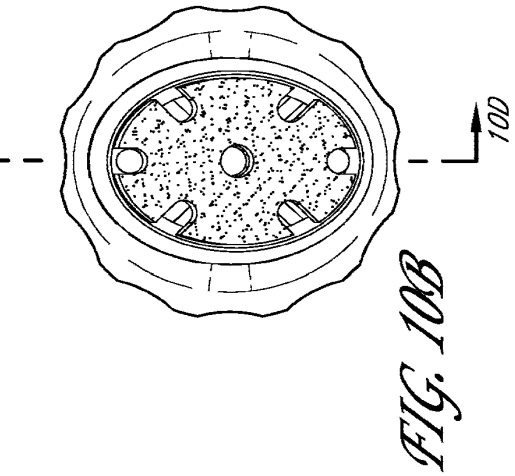


FIG. 10B

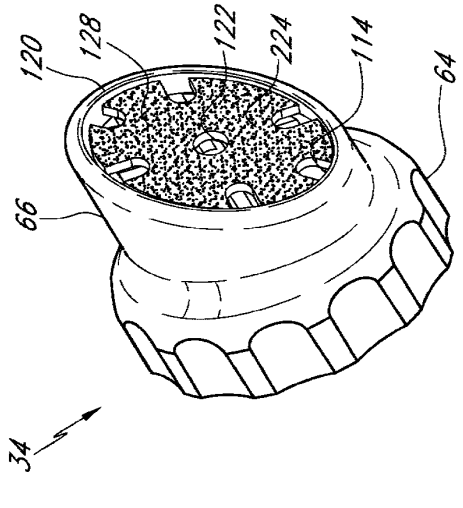


FIG. 10A

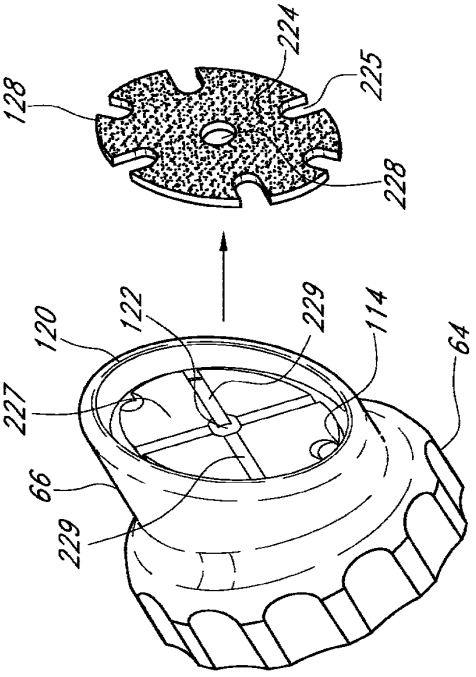


FIG. 10E

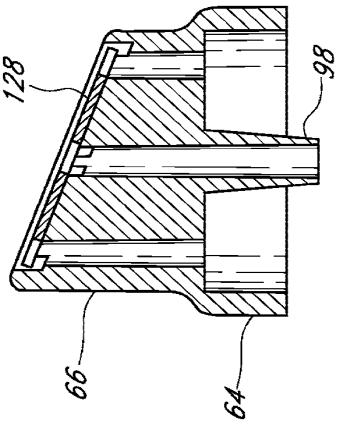


FIG. 10D

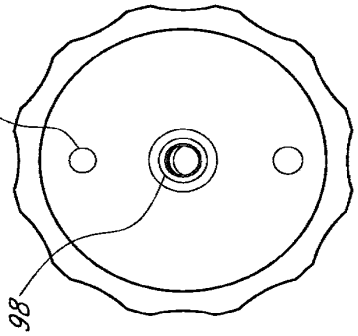


FIG. 10C

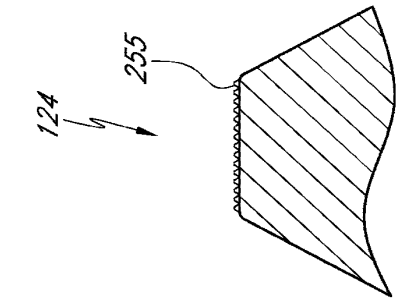


FIG. 11C

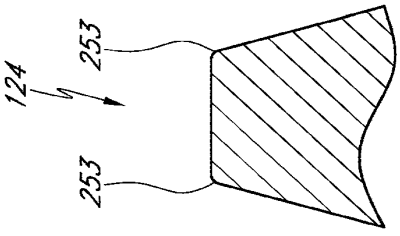


FIG. 11B

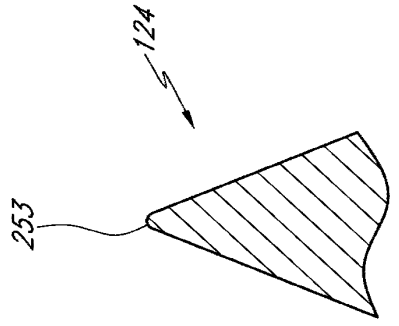


FIG. 11A

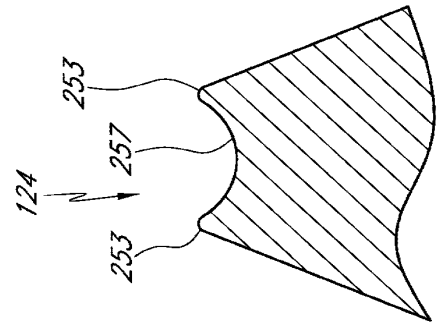


FIG. 11E

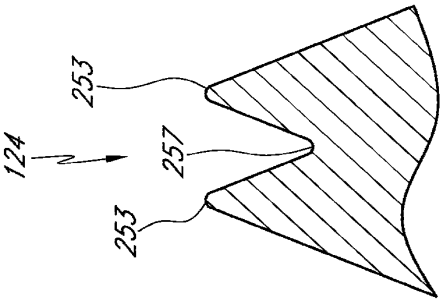


FIG. 11D

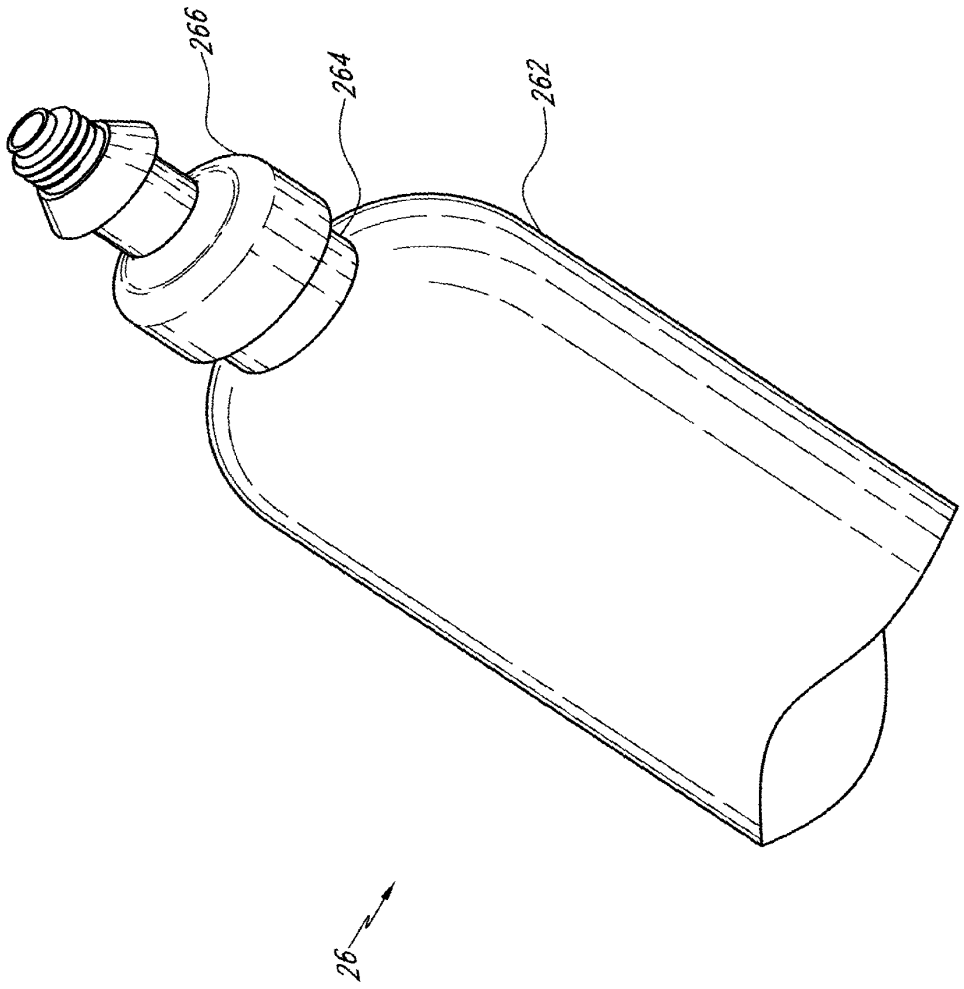


FIG. 12

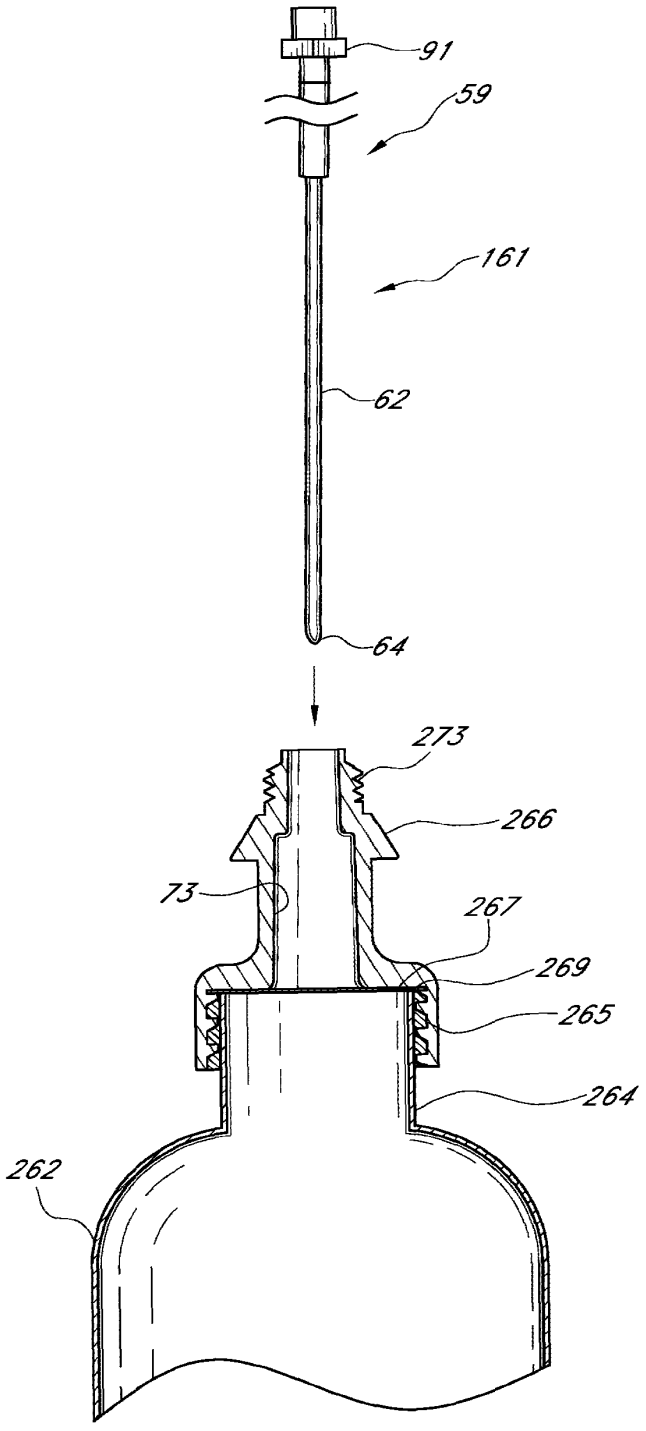


FIG. 13A

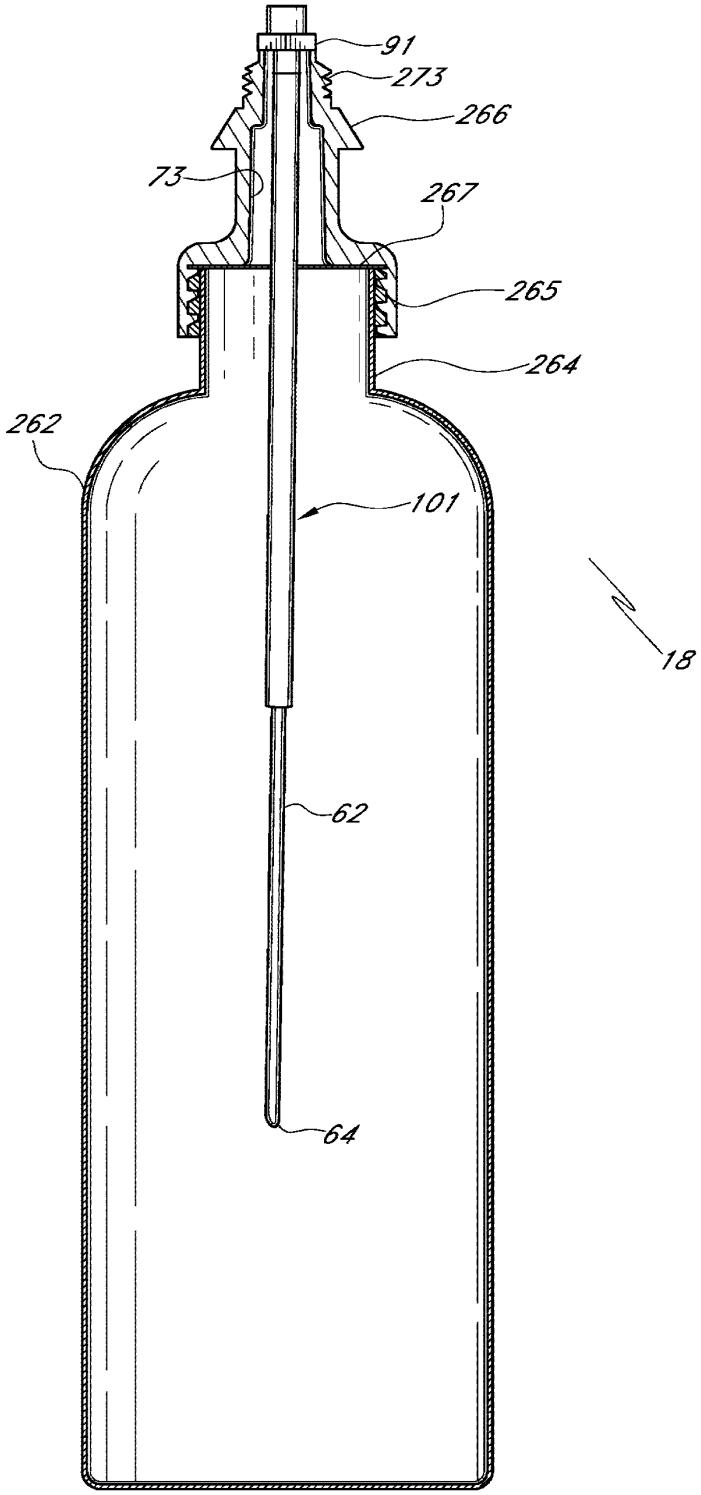


FIG. 13B

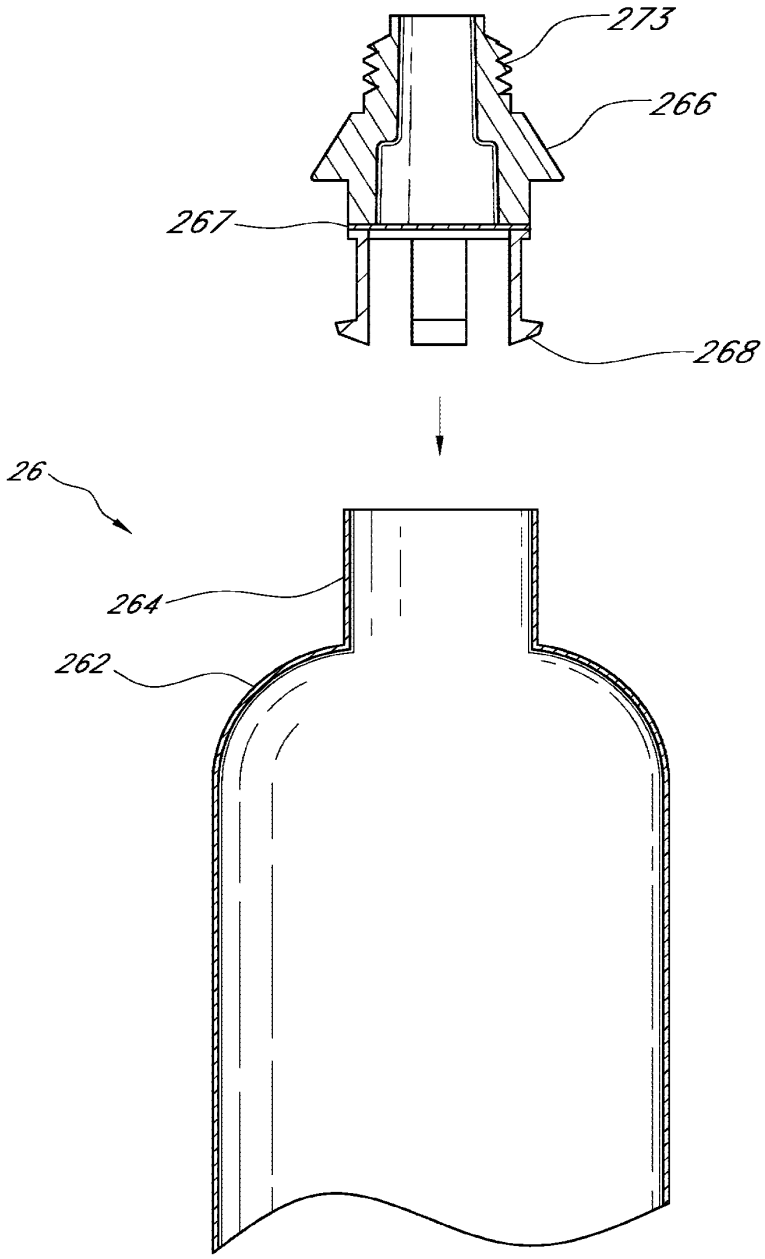


FIG. 14A

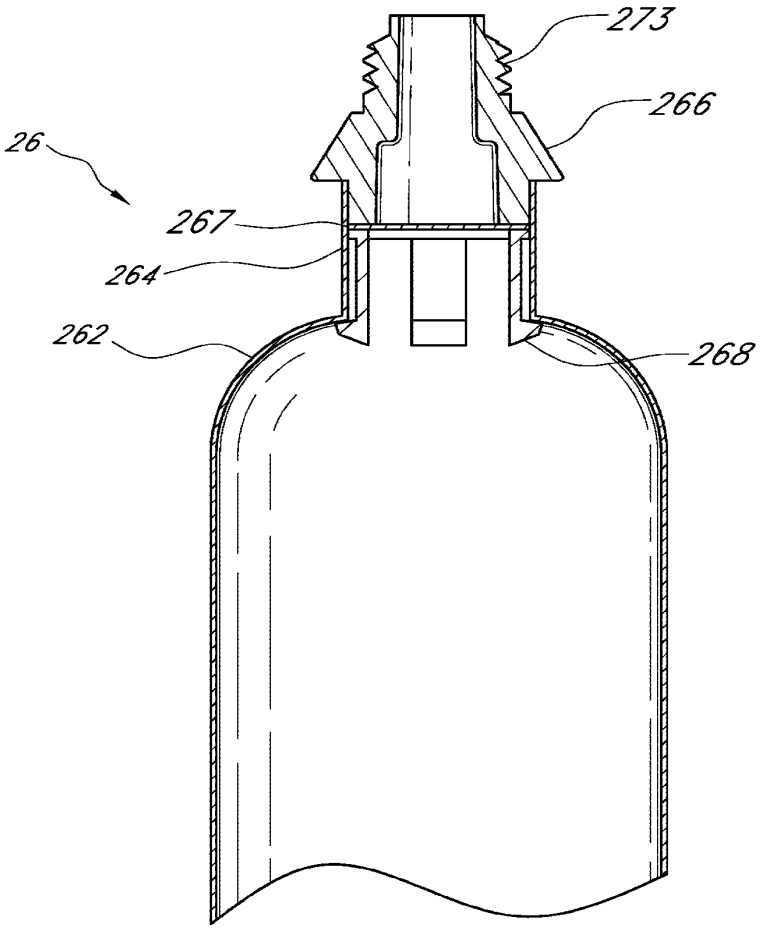


FIG. 14B

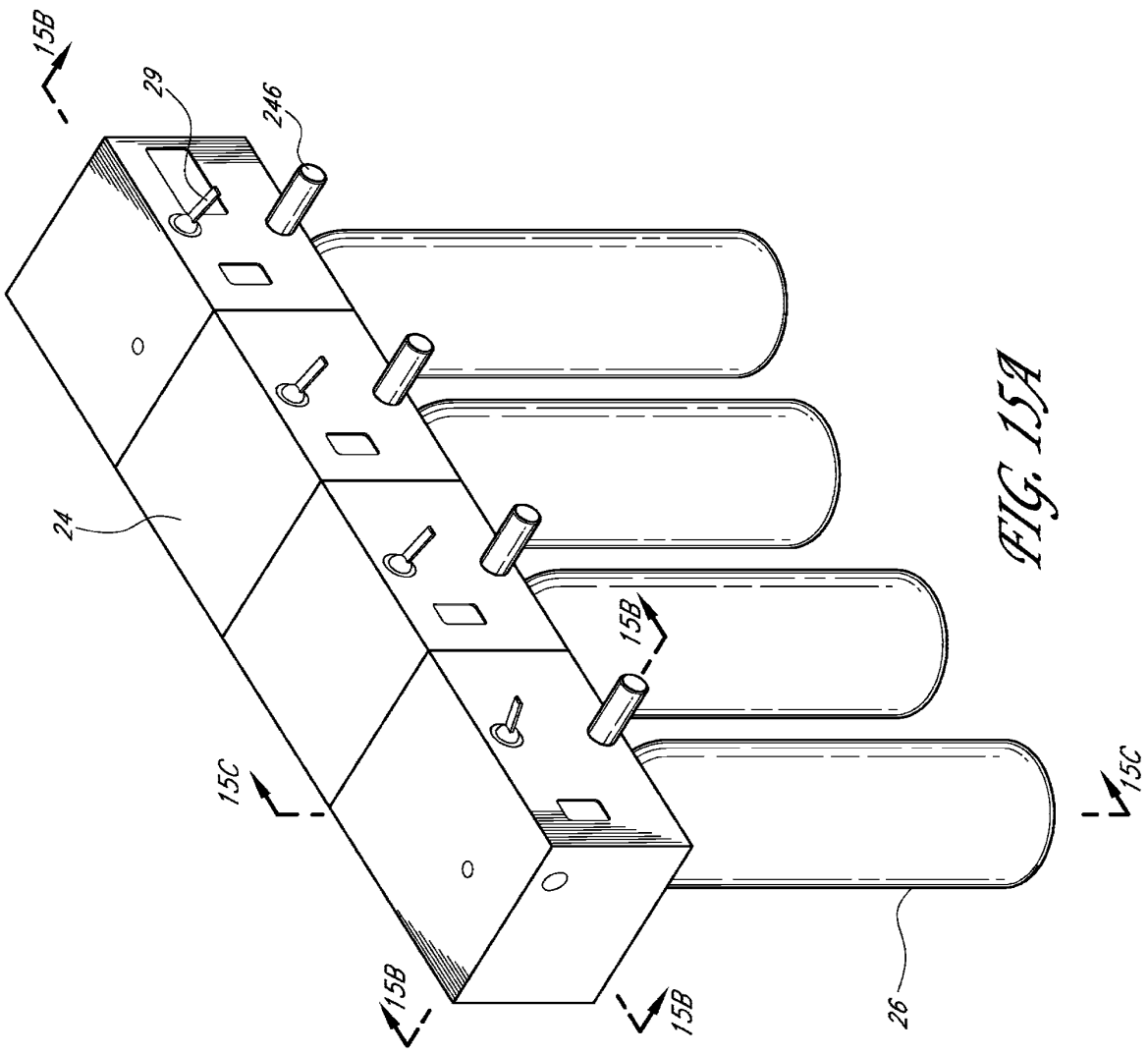


FIG. 15A

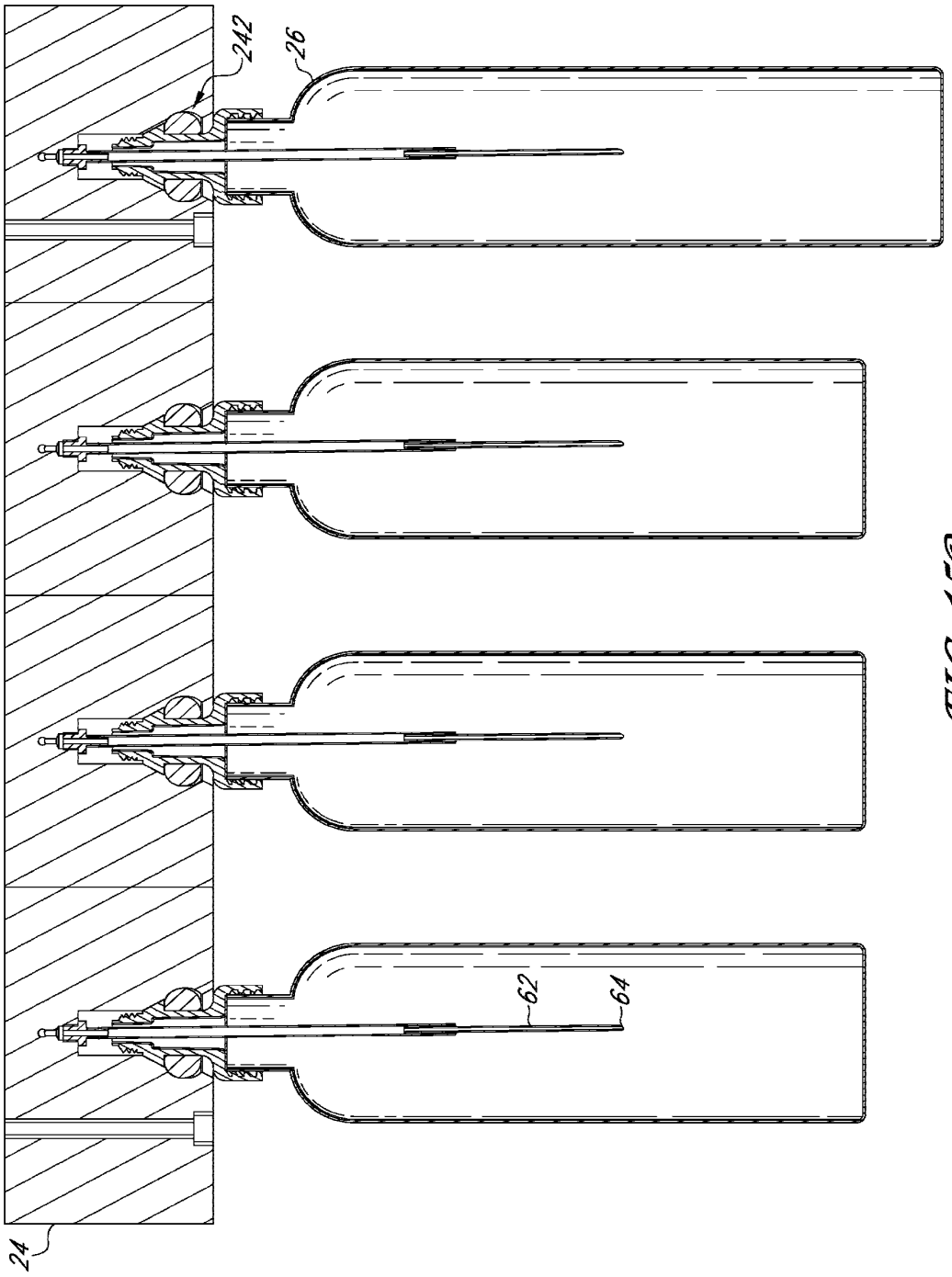


FIG. 15B

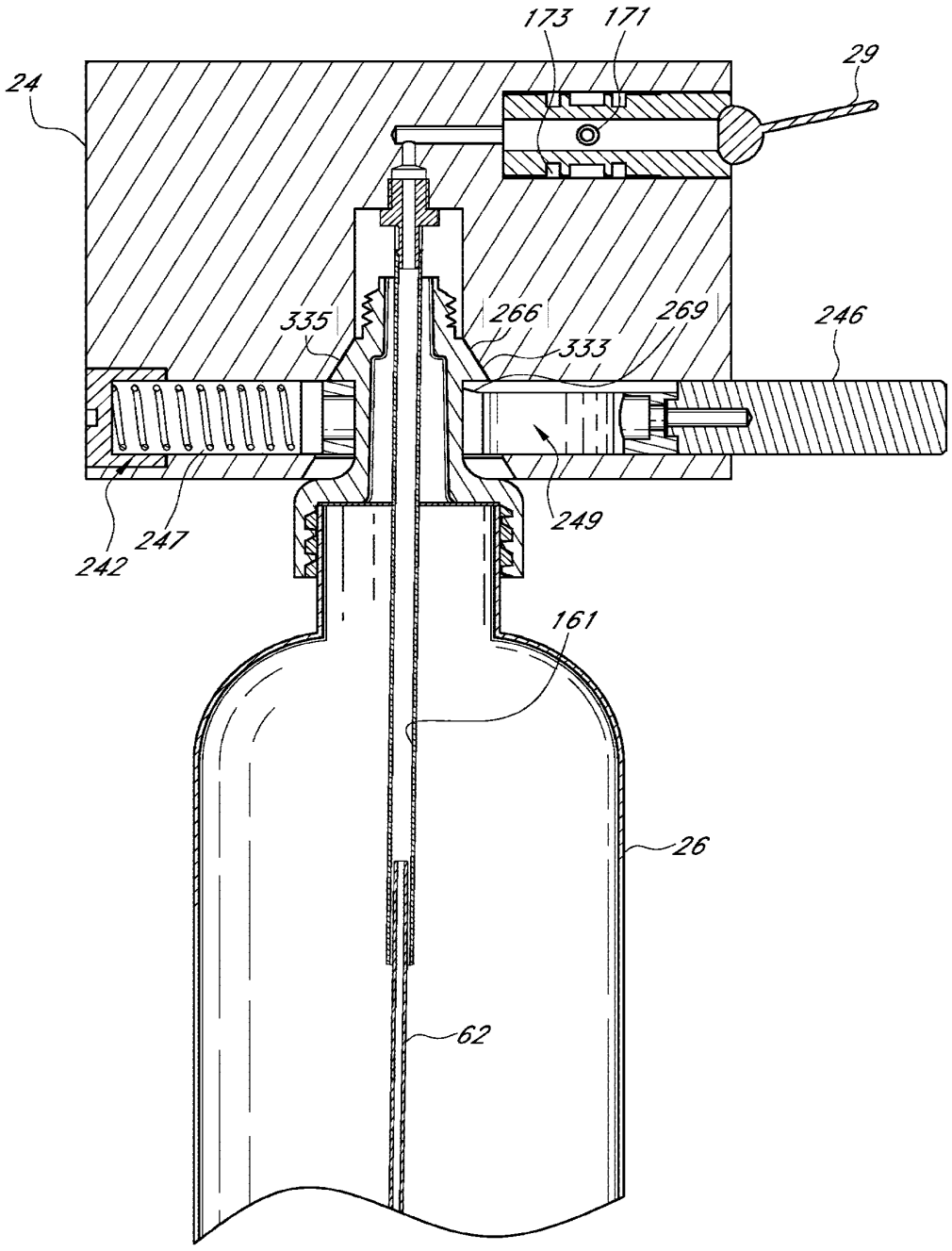


FIG. 15C

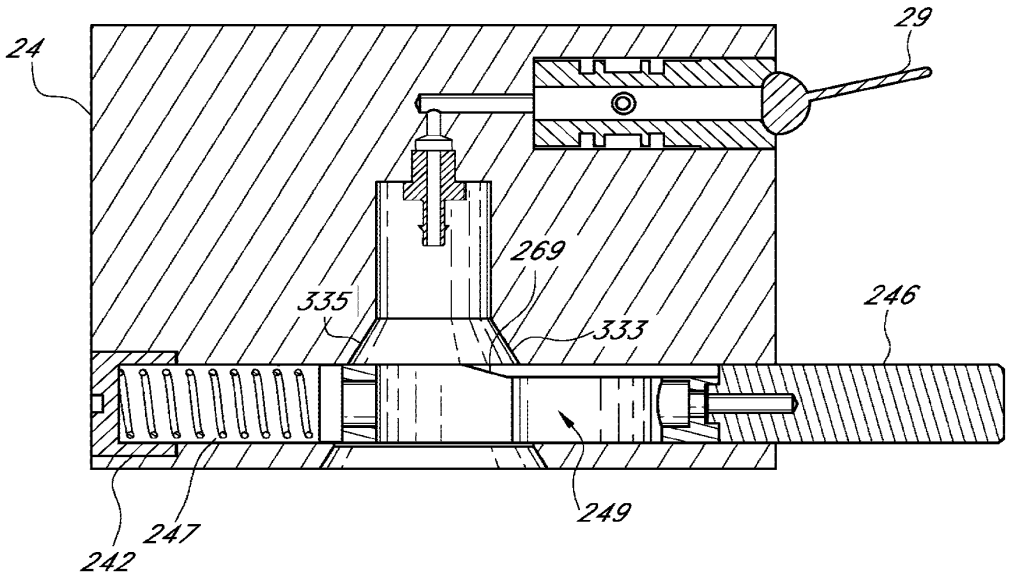


FIG. 15D

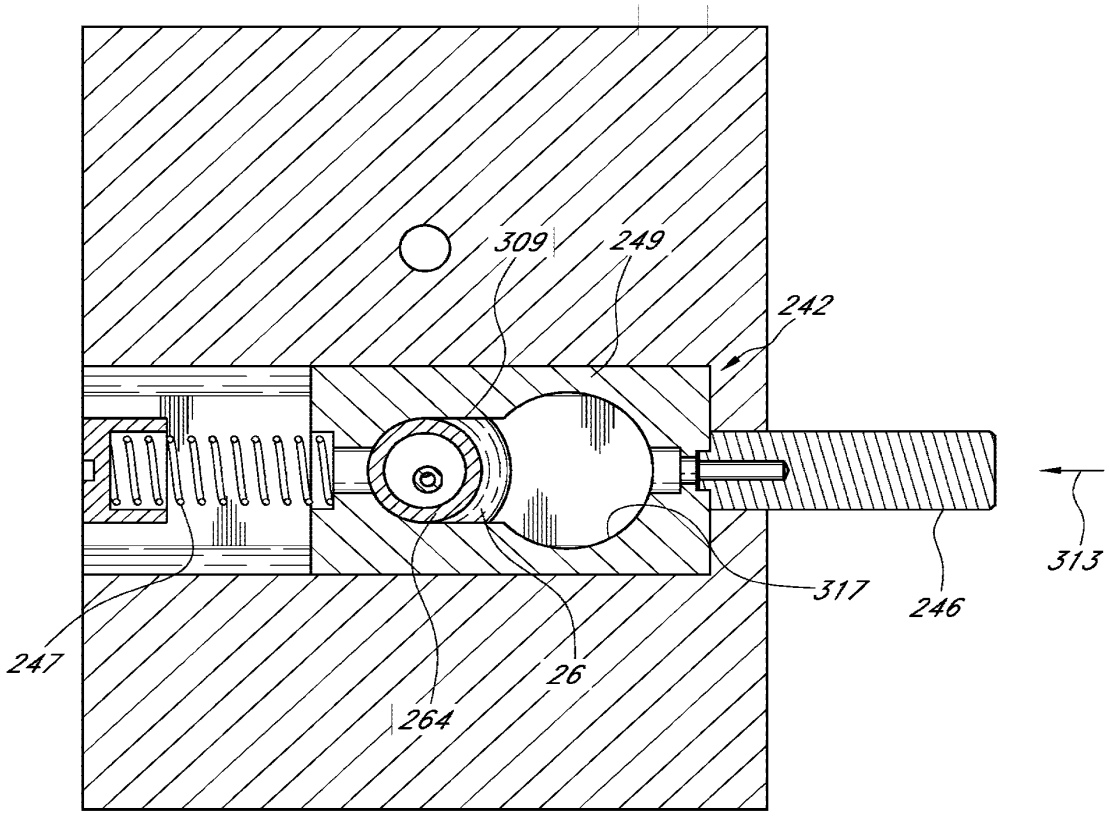


FIG. 15E

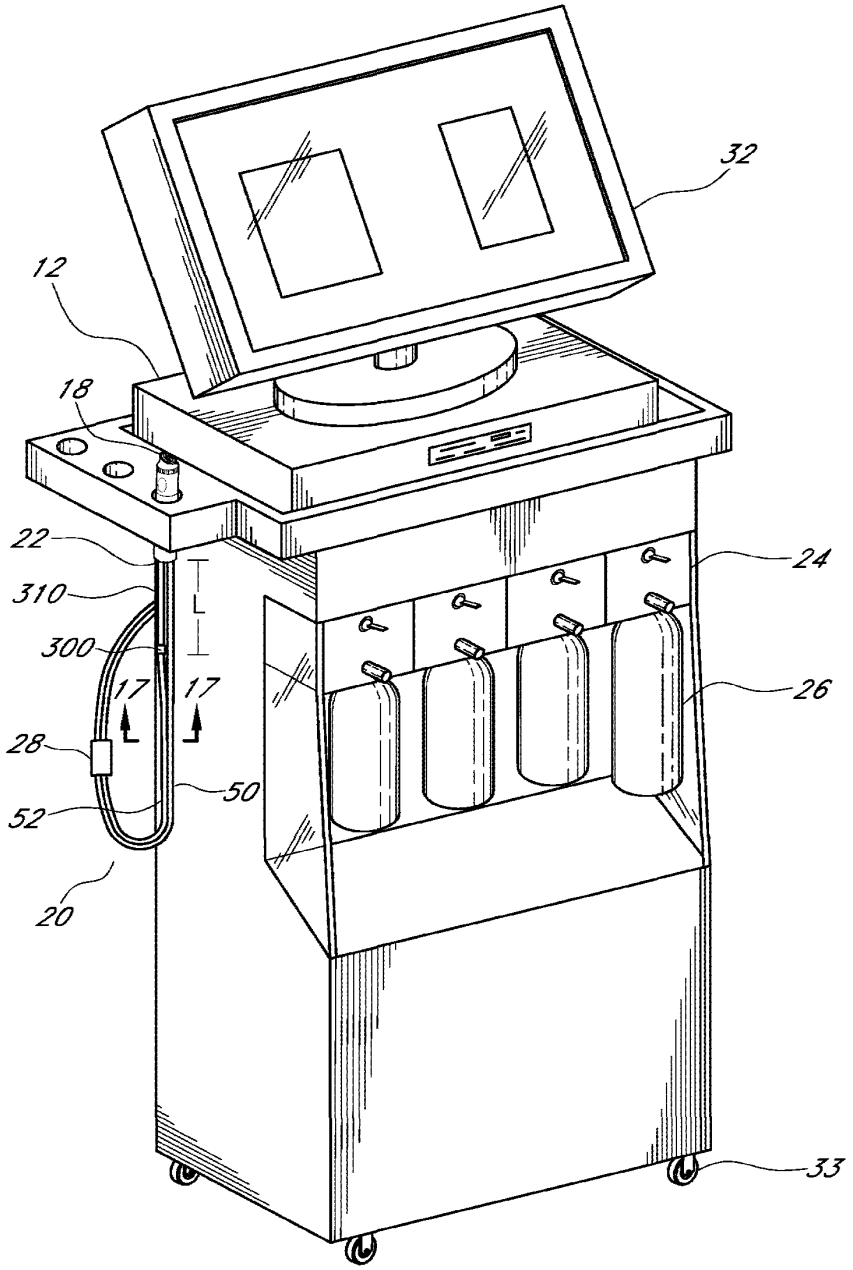


FIG. 16

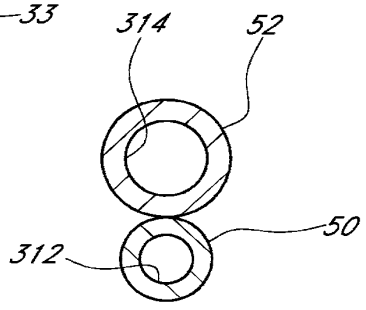


FIG. 17

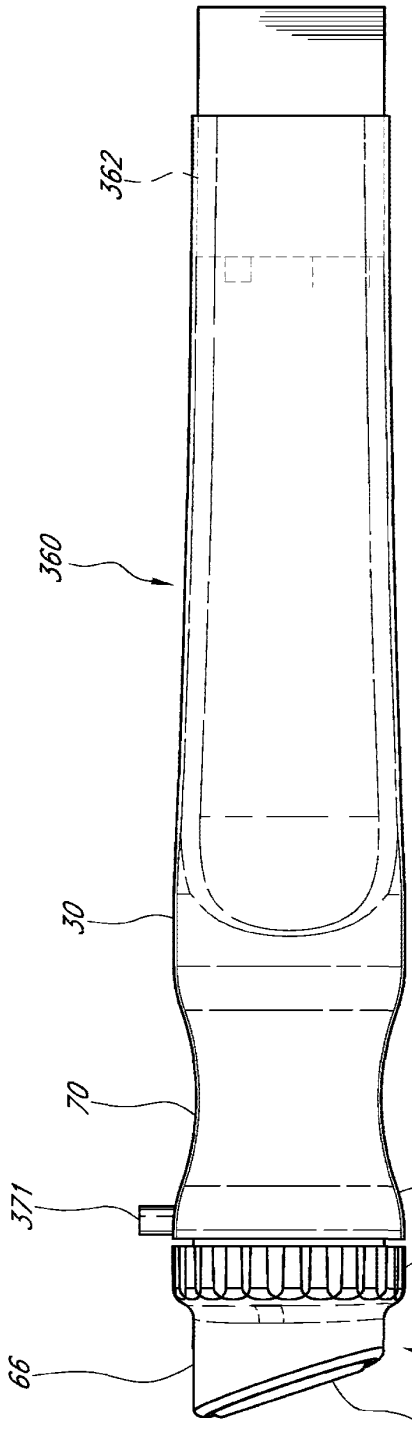


FIG. 18

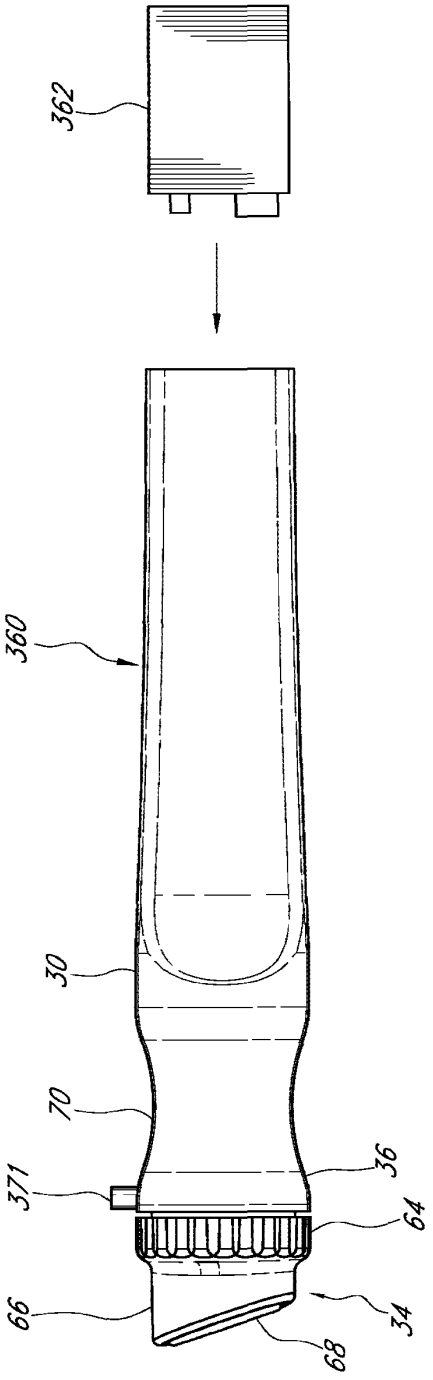


FIG. 19

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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: [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.**

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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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filed on April 30, 2015.

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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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DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1.76)

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☐ 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: 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.

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.**

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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.

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
Attorney Docket Number:	EDGE.005C10
Filed as Large Entity	
Filing Fees for Utility under 35 USC 111(a)	

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Basic Filing:				
UTILITY APPLICATION FILING	1011	1	320	320
UTILITY SEARCH FEE	1111	1	700	700
UTILITY EXAMINATION FEE	1311	1	800	800
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				
Miscellaneous:				
		Total in USD ($)		**1820**

Electronic Acknowledgement Receipt	
EFS ID:	47341712
Application Number:	18094884
International Application Number:	
Confirmation Number:	9223
Title of Invention:	DEVICES AND METHODS FOR TREATING SKIN
First Named Inventor/Applicant Name:	Roger Ignon
Customer Number:	20995
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Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Application Data Sheet	EDGE005C10_ADS.pdf	1823957 41d0e0cfd2025ecb58c59017a2fbf23b610e96b6	no	10
Warnings:					
Information:					
2		EDGE005C10_Spec.pdf	174736 73e01f8a4dc9cc5e6fbc756e583c8000009db756	yes	33

	Multipart Description/PDF files in .zip description		
	Document Description	**Start**	**End**
	Specification	1	31
	Claims	32	32
	Abstract	33	33

Warnings:					
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3	Drawings-only black and white line drawings	EDGE005C10_Drawings.PDF	667275 8967a45e619f0a5336c6be2c0acc3d1f4c94a74b	no	25
Warnings:					
Information:					
4	Oath or Declaration filed	EDGE005C10_Declarations.PDF	5523280 b483ad146c813dc000511211f8e6ccc28c74c281	no	5
Warnings:					
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5	Fee Worksheet (SB06)	fee-info.pdf	43702 2437dbd7e101e2054be9203fb361a8652a2d9017	no	2

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