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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
18/615,875	03/25/2024	Paul Dayton	71212.4.1.USC7	8549

22859 7590 07/08/2025

FREDRIKSON & BYRON, P.A.
INTELLECTUAL PROPERTY GROUP
60 SOUTH SIXTH STREET, SUITE 1500
MINNEAPOLIS, MN 55402

EXAMINER	
NEGRELLIRODRIGUEZ, CHRISTINA	

ART UNIT	PAPER NUMBER
3773	

NOTIFICATION DATE	DELIVERY MODE
07/08/2025	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):

IP@FREDLAW.COM

Paragon 28 v. Treace Medical Concepts
PGR2026-00031
Paragon Ex. 1002

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APPLICATION NO.	ISSUE DATE	PATENT NO.
18/615,875	08-Jul-2025	12349941

FREDRIKSON & BYRON, P.A.
INTELLECTUAL PROPERTY GROUP
60 SOUTH SIXTH STREET, SUITE 1500
MINNEAPOLIS, MN 55402

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

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United States Patent and Trademark Office
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APPLICATION NO.	ISSUE DATE	PATENT NO.	ATTORNEY DOCKET NO.	CONFIRMATION NO.
18/615,875	07/08/2025	12349941	71212.4.1.USC7	8549

22859 7590 06/25/2025

FREDRIKSON & BYRON, P.A.
INTELLECTUAL PROPERTY GROUP
60 SOUTH SIXTH STREET, SUITE 1500
MINNEAPOLIS, MN 55402

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):

Paul Dayton, Ankeny, IA;
F. Barry Bays, Collierville, TN;

APPLICANT(s) (Please see PATENT CENTER site https://patentcenter.uspto.gov for additional applicants):

Treace Medical Concepts, Inc., Ponte Vedra, FL;

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.

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ELECTRONIC PAYMENT RECEIPT

APPLICATION #	RECEIPT DATE / TIME	ATTORNEY DOCKET #
18/615,875	**06/02/2025 12:58:16 PM Z ET**	**71212.4.1.USC7**

Title of Invention

BONE POSITIONING AND CUTTING SYSTEM AND METHOD

Application Information

APPLICATION TYPE	Utility - Nonprovisional Application under 35 USC 111(a)	PATENT #	-
CONFIRMATION #	8549	FILED BY	Paul LaVanway
PATENT CENTER #	70681319	AUTHORIZED BY	Paul LaVanway
CUSTOMER #	22859	FILING DATE	03/25/2024
CORRESPONDENCE ADDRESS	-	FIRST NAMED INVENTOR	Paul Dayton

Payment Information

PAYMENT METHOD	PAYMENT TRANSACTION ID	PAYMENT AUTHORIZED BY
CARD / 1071	**E202562C58459502**	**Paul LaVanway**

FEE CODE	DESCRIPTION	ITEM PRICE($)	QUANTITY	ITEM TOTAL($)
2501	UTILITY ISSUE FEE	516.00	1	516.00
			TOTAL AMOUNT:	**$516.00**

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.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), by mail or fax, or via the USPTO patent electronic filing system.

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)

22859 7590 05/21/2025
FREDRIKSON & BYRON, P.A.
INTELLECTUAL PROPERTY GROUP
60 SOUTH SIXTH STREET, SUITE 1500
MINNEAPOLIS, MN 55402

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 the USPTO patent electronic filing system 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.
18/615,875	03/25/2024	Paul Dayton	71212.4.1.USC7	8549

TITLE OF INVENTION: BONE POSITIONING AND CUTTING SYSTEM AND METHOD

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	SMALL	$516	$0.00	$0.00	$516	08/21/2025

EXAMINER	ART UNIT	CLASS-SUBCLASS
NEGRELLIRODRIGUEZ, CHRISTINA	3773	606-057000

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 Fredrikson & Byron, P.A.
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: Treace Medical Concepts, Inc.

(B) RESIDENCE: (CITY and STATE OR COUNTRY): Ponte Vedra, FL

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 the USPTO patent electronic filing system ☐ 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. 06-1910

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 /Paul J. LaVanway, Jr./ Date June 2, 2025

Typed or printed name Paul J. LaVanway, Jr. Registration No. 64,610

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 #
18/615,875	**06/02/2025 12:58:16 PM Z ET**	**71212.4.1.USC7**

Title of Invention

BONE POSITIONING AND CUTTING SYSTEM AND METHOD

Application Information

APPLICATION TYPE	Utility - Nonprovisional Application under 35 USC 111(a)	PATENT #	-
CONFIRMATION #	8549	FILED BY	Paul LaVanway
PATENT CENTER #	70681319	FILING DATE	03/25/2024
CUSTOMER #	22859	FIRST NAMED INVENTOR	Paul Dayton
CORRESPONDENCE ADDRESS	-	AUTHORIZED BY	Paul LaVanway

Documents

TOTAL DOCUMENTS: 1

DOCUMENT	PAGES	DESCRIPTION	SIZE (KB)
71212.4.1.USC7_Issue_Fee_Transmittal.pdf	1	Issue Fee Payment (PTO-85B)	2181 KB

Digest

DOCUMENT	MESSAGE DIGEST(SHA-512)
71212.4.1.USC7_Issue_Fee_Transmittal.pdf	91C4B5606D235BCEBA3A649CD259B5D2DF0DB2CAE48FE0B4A972F69061E42F6487AA19DF57F35D89FCD540C14C0958D013C1517C3A94A5BA1E65B3EFA6E69390

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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United States Patent and Trademark Office
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www.uspto.gov

NOTICE OF ALLOWANCE AND FEE(S) DUE

22859 7590 05/21/2025

FREDRIKSON & BYRON, P.A.
INTELLECTUAL PROPERTY GROUP
60 SOUTH SIXTH STREET, SUITE 1500
MINNEAPOLIS, MN 55402

EXAMINER	
NEGRELLIRODRIGUEZ, CHRISTINA	
ART UNIT	**PAPER NUMBER**
3773	

DATE MAILED: 05/21/2025

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
18/615,875	03/25/2024	Paul Dayton	71212.4.1.USC7	8549

TITLE OF INVENTION: BONE POSITIONING AND CUTTING SYSTEM AND METHOD

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	SMALL	$516	$0.00	$0.00	$516	08/21/2025

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 the USPTO patent electronic filing system.

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)

22859 7590 05/21/2025
FREDRIKSON & BYRON, P.A.
INTELLECTUAL PROPERTY GROUP
60 SOUTH SIXTH STREET, SUITE 1500
MINNEAPOLIS, MN 55402

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 the USPTO patent electronic filing system 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.
18/615,875	03/25/2024	Paul Dayton	71212.4.1.USC7	8549

TITLE OF INVENTION: BONE POSITIONING AND CUTTING SYSTEM AND METHOD

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	SMALL	$516	$0.00	$0.00	$516	08/21/2025

EXAMINER	ART UNIT	CLASS-SUBCLASS
NEGRELLIRODRIGUEZ, CHRISTINA	3773	606-057000

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 the USPTO patent electronic filing system ❑ 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. _____

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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.
18/615,875	03/25/2024	Paul Dayton	71212.4.1.USC7	8549

22859 7590 05/21/2025

FREDRIKSON & BYRON, P.A.
INTELLECTUAL PROPERTY GROUP
60 SOUTH SIXTH STREET, SUITE 1500
MINNEAPOLIS, MN 55402

EXAMINER	
NEGRELLIRODRIGUEZ, CHRISTINA	
ART UNIT	PAPER NUMBER
3773	

DATE MAILED: 05/21/2025

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. The United States Patent and Trademark Office (USPTO) collects the information in this record under authority of 35 U.S.C. 2. The USPTO's system of records is used to manage all applicant and owner information including name, citizenship, residence, post office address, and other information with respect to inventors and their legal representatives pertaining to the applicant's/owner's activities in connection with the invention for which a patent is sought or has been granted. The applicable Privacy Act System of Records Notice for the information collected in this form is COMMERCE/PAT-TM-7 Patent Application Files, available in the Federal Register at 78 FR 19243 (March 29, 2013).
https://www.govinfo.gov/content/pkg/FR-2013-03-29/pdf/2013-07341.pdf

Routine uses of the information in this record may include disclosure to:

1) law enforcement, in the event that the system of records indicates a violation or potential violation of law;
2) a federal, state, local, or international agency, in response to its request;
3) a contractor of the USPTO having need for the information in order to perform a contract;
4) the Department of Justice for determination of whether the Freedom of Information Act (FOIA) requires disclosure of the record;
5) a Member of Congress submitting a request involving an individual to whom the record pertains, when the individual has requested the Member's assistance with respect to the subject matter of the record;
6) a court, magistrate, or administrative tribunal, in the course of presenting evidence, including disclosures to opposing counsel in the course of settlement negotiations;
7) the Administrator, General Services Administration (GSA), or their designee, during an inspection of records conducted by GSA under authority of 44 U.S.C. 2904 and 2906, in accordance with the GSA regulations and any other relevant (i.e., GSA or Commerce) directive, where such disclosure shall not be used to make determinations about individuals;
8) 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));
9) the Office of Personnel Management (OPM) for personnel research purposes; and
10) the Office of Management and Budget (OMB) for legislative coordination and clearance.

If you do not furnish the information requested on this form, the USPTO may not be able to process and/or examine your submission, which may result in termination of proceedings, abandonment of the application, and/or expiration of the patent.

Notice of Allowability	Application No. 18/615,875	Applicant(s) Dayton et al.	
	Examiner CHRISTINA NEGRELLI-RODRIGUEZ	Art Unit 3773	AIA (FITF) Status Yes

-- 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 Amendments to the Claims filed on 05/12/2025.
   ☐ 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 21-47 . As a result of the allowed claim(s), you may be eligible to benefit from the **Patent Prosecution Highway** program at a participating intellectual property office for the corresponding application. For more information, please see **http://www.uspto.gov/patents/init_events/pph/index.jsp** or send an inquiry to **PPHfeedback@uspto.gov.**

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

   Certified copies:

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

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

   * Certified copies not received: _____ .

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

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

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

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

Attachment(s)

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

/CHRISTINA NEGRELLIRODRIGUEZ/ Examiner, Art Unit 3773	/EDUARDO C ROBERT/ Supervisory Patent Examiner, Art Unit 3773

Index of Claims	Application/Control No.	Applicant(s)/Patent Under Reexamination
	18/615,875	Dayton et al.
	Examiner	Art Unit
	CHRISTINA NEGRELLI-RODRIGUEZ	3773

✓	Rejected	-	Cancelled	N	Non-Elected	A	Appeal
=	Allowed	÷	Restricted	I	Interference	O	Objected

CLAIMS

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

CLAIM		DATE								
Final	Original	02/04/2025	05/13/2025							
	1	✓	-							
	2	✓	-							
	3	✓	-							
	4	✓	-							
	5	✓	-							
	6	✓	-							
	7	✓	-							
	8	✓	-							
	9	✓	-							
	10	✓	-							
	11	✓	-							
	12	✓	-							
	13	✓	-							
	14	✓	-							
	15	✓	-							
	16	✓	-							
	17	O	-							
	18	O	-							
	19	O	-							
	20	✓	-							
1	21		=							
2	22		=							
3	23		=							
4	24		=							
5	25		=							
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17	37		=							
18	38		=							
19	39		=							
20	40		=							
21	41		=							
22	42		=							

Index of Claims	Application/Control No.	Applicant(s)/Patent Under Reexamination
	18/615,875	Dayton et al.
	Examiner	**Art Unit**
	CHRISTINA NEGRELLI-RODRIGUEZ	3773

CLAIM		DATE								
Final	Original	02/04/2025	05/13/2025							
23	43		=							
24	44		=							
25	45		=							
26	46		=							
27	47		=							

Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	18/615,875	Dayton et al.
	Examiner	**Art Unit**
	CHRISTINA NEGRELLI-RODRIGUEZ	3773

CPC - Searched*		
Symbol	**Date**	**Examiner**
A61B17/64, 6416, 6425, 6458, 66, 7052	02/04/2025	CN
A61B17/64, 6416, 6425, 6441, 645, 6458, 6466, 6491, 66	05/13/2025	CN

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

US Classification - Searched*			
Class	**Subclass**	**Date**	**Examiner**
606	57	02/04/2025	CN
606	54-59, 90, 105	05/13/2025	CN

* 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**
Inventor Name Search	02/04/2025	CN
Considered all references in circled areas in PE2E search (see PE2E printout)	02/04/2025	CN
Updated Inventor Name Search	05/13/2025	CN
Considered all references in circled areas in PE2E search (see PE2E printout)	05/13/2025	CN

/CHRISTINA NEGRELLIRODRIGUEZ/ Examiner, Art Unit 3773	

Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	18/615,875	Dayton et al.
	Examiner	**Art Unit**
	CHRISTINA NEGRELLI-RODRIGUEZ	3773

Interference Search			
US Class/CPC Symbol	**US Subclass/CPC Group**	**Date**	**Examiner**
	Interference Search History Printout	05/13/2025	CN

/CHRISTINA NEGRELLIRODRIGUEZ/ Examiner, Art Unit 3773	

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	18/615,875	Dayton et al.
	Examiner	**Art Unit**
	CHRISTINA NEGRELLI-RODRIGUEZ	3773

CPC						
Symbol					**Type**	**Version**
A61B	/	17	/	6416	F	2013-01-01
A61B	/	17	/	151	I	2013-01-01
A61B	/	17	/	66	I	2013-01-01

CPC Combination Sets								
Symbol					**Type**	**Set**	**Ranking**	**Version**
	/		/					

/CHRISTINA NEGRELLIRODRIGUEZ/ Examiner, Art Unit 3773	13 May 2025	**Total Claims Allowed:**	
(Assistant Examiner)	(Date)	27	
/EDUARDO C ROBERT/ Supervisory Patent Examiner, Art Unit 3773	14 May 2025	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	21	1

U.S. Patent and Trademark Office — Part of Paper No.: 20250513A1

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	18/615,875	Dayton et al.
	Examiner	**Art Unit**
	CHRISTINA NEGRELLI-RODRIGUEZ	3773

INTERNATIONAL CLASSIFICATION				
CLAIMED				
A61B	/	17	/	64

NON-CLAIMED				
	/		/	

US ORIGINAL CLASSIFICATION	
CLASS	**SUBCLASS**
606	57

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

/CHRISTINA NEGRELLIRODRIGUEZ/ Examiner, Art Unit 3773	13 May 2025	**Total Claims Allowed:**	
(Assistant Examiner)	(Date)	27	
/EDUARDO C ROBERT/ Supervisory Patent Examiner, Art Unit 3773	14 May 2025	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	21	1

U.S. Patent and Trademark Office — Part of Paper No.: 20250513A1

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	18/615,875	Dayton et al.
	Examiner	**Art Unit**
	CHRISTINA NEGRELLI-RODRIGUEZ	3773

☐ 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		10		19	8	28	17	37	26	46				
	2		11		20	9	29	18	38	27	47				
	3		12	1	21	10	30	19	39						
	4		13	2	22	11	31	20	40						
	5		14	3	23	12	32	21	41						
	6		15	4	24	13	33	22	42						
	7		16	5	25	14	34	23	43						
	8		17	6	26	15	35	24	44						
	9		18	7	27	16	36	25	45						

/CHRISTINA NEGRELLIRODRIGUEZ/ Examiner, Art Unit 3773	13 May 2025	**Total Claims Allowed:**	
(Assistant Examiner)	(Date)	27	
/EDUARDO C ROBERT/ Supervisory Patent Examiner, Art Unit 3773	14 May 2025	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	21	1

Last Name: Bays
First Name: F.

Examiner: NEGRELLIRODRIGUEZ, CHRISTINA

APP. #	Patent #	Status	Filing Date	Inventor Name	Title
06/486,268	4871364	150	04/18/1983	BAYS, F. BARRY	METAL CORE OSSICULAR REPLACEMENT PROSTHESIS
06/491,710	[]	161	05/05/1983	BAYS, F. BARRY	MYRINGOTOMY TUBES FORMED OF A HYDROCARBON BLOCK COPOLYMER POLYSILOXANE COMPOSITION
06/610,965	4650488	150	05/16/1984	BAYS, F. BARRY	BIODEGRADABLE PROSTHETIC DEVICE
06/654,729	D293734	150	09/27/1984	BAYS, F. BARRY	A SURGICAL INSTRUMENT COVER
06/776,439	4644951	150	09/16/1985	BAYS, F. BARRY	VACUUM SLEEVE FOR A SURGICAL APPLIANCE
06/839,222	[]	168	03/13/1986	BAYS, F. BARRY	ROTARY SURGICAL APPARATUS
06/865,184	[]	166	05/20/1986	BAYS, F. BARRY	REPAIR TACK FOR BODILY TISSUE AND IN VIVO METHOD OF DEPLOYING SAME
07/065,823	4936301	150	06/23/1987	BAYS, F. BARRY	ELECTROSURGICAL METHOD USING AN ELECTRICALLY CONDUCTIVE FLUID
07/117,158	4890615	150	11/05/1987	BAYS, F. BARRY	ARTHROSCOPIC SUTURING INSTRUMENT
07/194,091	4884572	150	05/16/1988	BAYS, F. BARRY	TACK AND APPLICATOR FOR TREATING TORN BODILY MATERIAL IN VIVO
07/195,417	4924865	150	05/16/1988	BAYS, F. BARRY	REPAIR TACK FOR BODILY TISSUE
07/255,331	4986825	250	10/11/1988	BAYS, F. BARRY	SURGICAL CUTTING INSTRUMENT
07/326,991	4923461	150	03/22/1989	BAYS, F. BARRY	ARTHROSCOPIC SUTURING INSTRUMENT AND METHOD OF ARTHROSCOPIC SUTURING OF TISSUE
07/326,994	4895148	150	03/22/1989	BAYS, F. BARRY	METHOD OF JOINING TORN PARTS OF BODILY TISSUE IN VIVO WITH A BIODEGRAD ABLE TACK MEMBER
07/343,730	4943290	150	04/27/1989	BAYS, F. BARRY	ELECTROLYTE PURGING ELECTRODE TIP
07/396,059	4921498	150	08/21/1989	BAYS, F. BARRY	METAL CORE OSSICULAR REPLACEMENT PROSTHESIS
07/432,886	4957498	150	11/07/1989	BAYS, F. BARRY	SUTURING INSTRUMENT
07/472,298	4976715	150	01/30/1990	BAYS, F. BARRY	REPAIR TACK FOR BODILY TISSUE
08/344,700	5494162	250	11/18/1994	BAYS, F. BARRY	PACKAGE AND METHOD FOR DELIVERING A MEDICAL IMPLANT
08/353,483	[]	161	12/09/1994	BAYS, F. BARRY	VALVE ASSEMBLY AND METHOD FOR RELIEVING SYNOVIAL FLUID PRESSURE
08/427,909	6406453	150	04/26/1995	BAYS, F. BARRY	COMPOSITE VENTILATION TUBE
08/497,117	5782795	150	06/30/1995	BAYS, F. BARRY	SURGICAL SUCTION CUTTING INSTRUMENT WITH INTERNAL IRRIGATION
08/539,390	5707383	250	10/05/1995	BAYS, F. BARRY	METHOD OF REMOVING SOFT TISSUE IN THE MIDDLE EAR
08/539,459	5796188	250	10/05/1995	BAYS, F. BARRY	BATTERY-POWERED MEDICAL INSTRUMENT WITH POWER BOOSTER
08/594,076	[]	168	01/30/1996	BAYS, F. BARRY	METHOD OF RELIEVING SYNOVIAL FLUID PRESSURE
08/719,130	[]	168	09/24/1996	BAYS, F. BARRY	POWERED HANDPIECE AND SURGICAL BLADES AND METHODS THEREFOR
08/751,015	5743910	150	11/14/1996	BAYS, F. BARRY	ORTHOPEDIC PROSTHESIS REMOVAL INSTRUMENT
08/775,147	[]	167	12/31/1996	BAYS, F. BARRY	POWERED HANDPIECE AND SURGICAL BLADES AND METHODS THEREFOR
08/855,466	5807303	250	05/13/1997	BAYS, F. BARRY	VALVE ASSEMBLY AND DEVICE FOR RELIEVING SYNOVIAL FLUID PRESSURE
08/857,185	5769093	150	05/15/1997	BAYS, F. BARRY	METHOD OF RELIEVING SYNOVIAL FLUID PRESSURE
09/005,010	5957945	150	01/09/1998	BAYS, F. BARRY	POWERED HANDPIECE SYSTEM
09/005,012	6010477	150	01/09/1998	BAYS, F. BARRY	SURGICAL BLADES ASSEMBLY

Last Name: Bays
First Name: F.

Examiner: NEGRELLIRODRIGUEZ, CHRISTINA

APP. #	Patent #	Status	Filing Date	Inventor Name	Title
09/005,189	5916231	150	01/09/1998	BAYS, F. BARRY	POWERED HANDPIECE AND SURGICAL BLADES AND METHODS THEREFOR
09/025,474	6130264	150	02/18/1998	BAYS, F. BARRY	Synthetic Sponge and Surgical Steps Comprising Synthtic Sponge
09/263,715	5979469	250	03/05/1999	BAYS, F. BARRY	METHOD FOR RINSING A HIGH DENSITY SPONGE
09/305,342	6238400	150	04/30/1999	BAYS, F. BARRY	METHOD AND APPARATUS FOR TREPHINATION AND IRRIGATION OF THE FRONTAL SINUS CAVITY
09/392,797	[]	161	09/09/1999	BAYS, F. BARRY	POWERED LARYNGEAL CUTTING BLADE
09/450,788	6221088	150	11/30/1999	BAYS, F. BARRY	POWERED HANDPIECE AND SURGICAL BLADES AND METHODS THEREOF
29/038,142	D379510	150	04/27/1995	BAYS, F. BARRY	MEDICAL INSTRUMENT HANDLE
60/077,770	[]	159	02/26/1998	BAYS, F. BARRY	ABSORBENT BANDAGE FOR CONTROLLING POST-OPERATIVE LEAKAGE ASSOCIATED WITH TUMESCENT LIPOSUCTION
60/124,802	[]	159	03/18/1999	BAYS, F. BARRY	POWERED TISSUE ASPIRATION SYSTEM
09/119,457	6183433	150	07/20/1998	BAYS, F. BAYS	SURGICAL SUCTION CUTTING INSTRUMENT WITH INTERNAL IRRIGATION
09/487,709	[]	161	01/19/2000	Bays, F. Barry	Methods Of Tonsil Reduction By Thermal Ablation Using High Intensity Focused Ultrasound
09/544,264	6423078	150	04/06/2000	Bays, F. Barry	DERMABRASION INSTRUMENT, INSTRUMENT ASSEMBLY AND METHOD
09/629,842	6451013	150	07/31/2000	Bays, F. Barry	METHODS OF TONSIL REDUCTION USING HIGH INTENSITY FOCUSED ULTRASOUND TO FORM AN ABATED TISSUE AREA CONTAINING A PLURALITY OF LESIONS
09/666,349	[]	164	09/21/2000	Bays, F. Barry	LARYNGOSCOPE HAVING A CLIP FOR ADJUSTABLY MOUNTING AN ENDOSCOPE TO A BLADE AND METHODS OF USING THE SAME
09/678,806	6329438	150	10/04/2000	Bays, F. Barry	High density sponge and method and apparatus for rinsing a high density sponge
09/692,232	6620180	150	10/20/2000	Bays, F. Barry	POWERED LARYNGEAL CUTTING BLADE
09/851,150	6391016	150	05/09/2001	Bays, F. Barry	METHODS FOR TREPHINATION AND IRRIGATION OF THE FRONTAL SINUS CAVITY
10/028,775	6939494	250	12/28/2001	Bays, F. Barry	METHOD OF MAKING VENTILATION TUBE
10/028,776	6692455	250	12/28/2001	Bays, F. Barry	COMPOSITE VENTILATION TUBE
10/682,253	6936023	150	10/10/2003	Bays, F. Barry	COMPOSITE VENTILATION TUBE
10/682,289	7776594	250	10/09/2003	Bays, F. Barry	BONE MARROW INFUSION CHAMBER AND METHOD
10/884,448	7137987	150	07/02/2004	Bays, F. Barry	DISTAL RADIUS BONE PLATING SYSTEM WITH LOCKING AND NON-LOCKING SCREWS
14/724,072	9925068	150	05/28/2015	Bays, F. Barry	BONE HARVESTER AND BONE MARROW REMOVAL SYSTEM AND METHOD
14/981,335	9622805	150	12/28/2015	Bays, F. Barry	BONE POSITIONING AND PREPARING GUIDE SYSTEMS AND METHODS
14/990,574	9687250	150	01/07/2016	Bays, F. Barry	BONE CUTTING GUIDE SYSTEMS AND METHODS
15/047,288	10849631	150	02/18/2016	Bays, F. Barry	PIVOTABLE BONE CUTTING GUIDE USEFUL FOR BONE REALIGNMENT AND COMPRESSION TECHNIQUES
15/047,343	10245086	150	02/18/2016	Bays, F. Barry	BONE PLATING KIT FOR FOOT AND ANKLE APPLICATIONS

Last Name: Bays
First Name: F.

Examiner: NEGRELLIRODRIGUEZ, CHRISTINA

APP. #	Patent #	Status	Filing Date	Inventor Name	Title
15/148,774	10653467	150	05/06/2016	Bays, F. Barry	INTRA-OSSEOUS PLATE SYSTEM AND METHOD
15/210,426	9936994	150	07/14/2016	Bays, F. Barry	BONE POSITIONING GUIDE
15/210,497	10849663	150	07/14/2016	Bays, F. Barry	BONE CUTTING GUIDE SYSTEMS AND METHODS
15/236,464	10342590	150	08/14/2016	Bays, F. Barry	TARSAL-METATARSAL JOINT PROCEDURE UTILIZING FULCRUM
15/267,531	10575862	150	09/16/2016	Bays, F. Barry	JOINT SPACER SYSTEMS AND METHODS
15/452,236	10045807	150	03/07/2017	Bays, F. Barry	BONE POSITIONING AND PREPARING GUIDE SYSTEMS AND METHODS
15/603,056	10603046	150	05/23/2017	Bays, F. Barry	BONE CUTTING GUIDE SYSTEMS AND METHODS
15/687,986	10512470	150	08/28/2017	Bays, F. Barry	OSTEOTOMY PROCEDURE FOR CORRECTING BONE MISALIGNMENT
15/687,994	11076863	150	08/28/2017	Bays, F. Barry	OSTEOTOMY PROCEDURE FOR CORRECTING BONE MISALIGNMENT
15/894,686	11020244	150	02/12/2018	Bays, F. Barry	BONE HARVESTER AND BONE MARROW REMOVAL SYSTEM AND METHOD
15/910,428	10335220	150	03/02/2018	Bays, F. Barry	BONE POSITIONING GUIDE
16/031,855	10849670	150	07/10/2018	Bays, F. Barry	BONE POSITIONING AND PREPARING GUIDE SYSTEMS AND METHODS
16/278,264	11344347	150	02/18/2019	Bays, F. Barry	BONE PLATING KIT FOR FOOT AND ANKLE APPLICATIONS
16/422,557	11185359	150	05/24/2019	Bays, F. Barry	BONE POSITIONING GUIDE
16/448,357	11413081	150	06/21/2019	Bays, F. Barry	TARSAL-METATARSAL JOINT PROCEDURE UTILIZING FULCRUM
16/505,363	11278337	150	07/08/2019	Bays, F. Barry	TARSAL-METATARSAL JOINT PROCEDURE UTILIZING FULCRUM
16/593,153	10561426	150	10/04/2019	Bays, F. Barry	BONE CUTTING GUIDE SYSTEMS AND METHODS
16/730,424	10945764	150	12/30/2019	Bays, F. Barry	BONE POSITIONING AND CUTTING SYSTEM AND METHOD
16/731,612	10874446	150	12/31/2019	Bays, F. Barry	BONE POSITIONING GUIDE
16/750,829	11648019	150	01/23/2020	Bays, F. Barry	JOINT SPACER SYSTEMS AND METHODS
16/792,880	10888335	150	02/17/2020	Bays, F. Barry	BONE CUTTING GUIDE SYSTEMS AND METHODS
16/877,159	11426219	150	05/18/2020	Bays, F. Barry	INTRA-OSSEOUS PLATE SYSTEM AND METHOD
16/997,864	11116558	150	08/19/2020	Bays, F. Barry	BONE POSITIONING GUIDE
16/998,155	11039873	150	08/20/2020	Bays, F. Barry	BONE POSITIONING AND PREPARING GUIDE SYSTEMS AND METHODS
17/106,306	11963703	150	11/30/2020	Bays, F. Barry	BONE CUTTING GUIDE SYSTEMS AND METHODS
17/106,314	11844533	150	11/30/2020	Bays, F. Barry	PIVOTABLE BONE CUTTING GUIDE USEFUL FOR BONE REALIGNMENT AND COMPRESSION TECHNIQUES
17/118,597	11786257	150	12/10/2020	Bays, F. Barry	BONE CUTTING GUIDE SYSTEMS AND METHODS
17/201,008	11147590	150	03/15/2021	Bays, F. Barry	BONE POSITIONING AND CUTTING SYSTEM AND METHOD
17/335,046	12257163	150	05/31/2021	Bays, F. Barry	BONE HARVESTER AND BONE MARROW REMOVAL SYSTEM AND METHOD
17/353,431	11213333	150	06/21/2021	Bays, F. Barry	BONE POSITIONING AND PREPARING GUIDE SYSTEMS AND METHODS
17/392,010	11931047	150	08/02/2021	Bays, F. Barry	OSTEOTOMY PROCEDURE FOR CORRECTING BONE MISALIGNMENT
17/503,730	11937849	150	10/18/2021	Bays, F. Barry	BONE POSITIONING AND CUTTING SYSTEM AND METHOD
17/537,183	11602386	150	11/29/2021	Bays, F. Barry	BONE POSITIONING GUIDE

Last Name: Bays
First Name: F.

Examiner: NEGRELLIRODRIGUEZ, CHRISTINA

APP. #	Patent #	Status	Filing Date	Inventor Name	Title
17/567,879	11602387	150	01/03/2022	Bays, F. Barry	BONE POSITIONING AND PREPARING GUIDE SYSTEMS AND METHODS
17/721,353	[]	41	04/14/2022	Bays, F. Barry	SYSTEMS AND TECHNIQUES FOR PERFORMING PATIENT-SPECIFIC BONE ALIGNMENT AND FUSION
17/828,002	[]	41	05/30/2022	Bays, F. Barry	BONE PLATING KIT FOR FOOT AND ANKLE APPLICATIONS
17/836,801	11497528	150	06/09/2022	Bays, F. Barry	BONE POSITIONING AND CUTTING SYSTEM AND METHOD
17/836,809	11523845	150	06/09/2022	Bays, F. Barry	BONE POSITIONING AND CUTTING SYSTEM AND METHOD
17/888,272	11690659	150	08/15/2022	Bays, F. Barry	TARSAL-METATARSAL JOINT PROCEDURE UTILIZING FULCRUM
17/897,321	11969193	150	08/29/2022	Bays, F. Barry	INTRA-OSSEOUS PLATE SYSTEM AND METHOD
18/057,762	11771443	150	11/21/2022	Bays, F. Barry	JOINT SPACER SYSTEMS AND METHODS
18/064,916	11771467	150	12/12/2022	Bays, F. Barry	BONE POSITIONING AND CUTTING SYSTEM AND METHOD
18/182,995	11950819	150	03/13/2023	Bays, F. Barry	BONE POSITIONING GUIDE
18/183,013	11911085	150	03/13/2023	Bays, F. Barry	BONE POSITIONING AND PREPARING GUIDE SYSTEMS AND METHODS
18/323,138	[]	30	05/24/2023	Bays, F. Barry	TARSAL-METATARSAL JOINT PROCEDURE UTILIZING FULCRUM
18/479,708	[]	93	10/02/2023	Bays, F. Barry	JOINT SPACER SYSTEMS AND METHODS
18/544,406	[]	41	12/18/2023	Bays, F. Barry	PIVOTABLE BONE CUTTING GUIDE USEFUL FOR BONE REALIGNMENT AND COMPRESSION TECHNIQUES
18/587,921	12274481	150	02/26/2024	Bays, F. Barry	BONE POSITIONING AND PREPARING GUIDE SYSTEMS AND METHODS
18/608,717	[]	41	03/18/2024	Bays, F. Barry	OSTEOTOMY PROCEDURE FOR CORRECTING BONE MISALIGNMENT
18/615,875	[]	71	03/25/2024	Bays, F. Barry	BONE POSITIONING AND CUTTING SYSTEM AND METHOD
18/627,609	12102368	150	04/05/2024	Bays, F. Barry	BONE POSITIONING GUIDE
18/642,470	[]	41	04/22/2024	Bays, F. Barry	BONE CUTTING GUIDE SYSTEMS AND METHODS
18/645,205	12268397	150	04/24/2024	Bays, F. Barry	BONE CUTTING GUIDE SYSTEMS AND METHODS
18/645,596	12268428	150	04/25/2024	Bays, F. Barry	TARSAL-METATARSAL JOINT PROCEDURE UTILIZING FULCRUM
18/649,799	[]	71	04/29/2024	Bays, F. Barry	INTRA-OSSEOUS PLATE SYSTEM AND METHOD
18/901,388	[]	30	09/30/2024	Bays, F. Barry	BONE POSITIONING GUIDE
19/030,046	[]	30	01/17/2025	Bays, F. Barry	TARSAL-METATARSAL JOINT PROCEDURE UTILIZING FULCRUM
19/030,114	[]	30	01/17/2025	Bays, F. Barry	BONE POSITIONING AND PREPARING GUIDE SYSTEMS AND METHODS
19/030,150	[]	30	01/17/2025	Bays, F. Barry	BONE CUTTING GUIDE SYSTEMS AND METHODS
19/031,828	[]	30	01/18/2025	Bays, F. Barry	BONE POSITIONING AND CUTTING SYSTEM AND METHOD
60/418,077	[]	159	10/10/2002	Bays, F. Barry	Method and apparatus for preparing a bone graft composite
62/005,693	[]	159	05/30/2014	Bays, F. Barry	Bone Harvester Device and Method
62/005,698	[]	159	05/30/2014	Bays, F. Barry	Suture Retention Device and Method
62/040,210	[]	159	08/21/2014	Bays, F. Barry	INTEGRATED BONE HARVESTER AND BONE MARROW REMOVAL SYSTEM AND METHOD

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62/051,499	[]	159	09/17/2014	Bays, F. Barry	BONE HARVESTER AND BONE MARROW REMOVAL SYSTEM AND METHOD
62/100,641	[]	159	01/07/2015	Bays, F. Barry	BONE CUTTING GUIDE SYSTEMS AND METHODS
62/117,788	[]	159	02/18/2015	Bays, F. Barry	BONE PLATING KIT AND METHODS
62/157,561	[]	159	05/06/2015	Bays, F. Barry	INTRA-OSSEOUS PLATE SYSTEM AND METHOD
62/192,290	[]	159	07/14/2015	Bays, F. Barry	BONE CUTTING GUIDE SYSTEMS AND METHODS
62/192,319	[]	159	07/14/2015	Bays, F. Barry	BONE POSITIONING SYSTEMS AND METHODS
62/205,338	[]	159	08/14/2015	Bays, F. Barry	BONE POSITIONING AND PREPARING GUIDE SYSTEMS AND METHODS
62/220,530	[]	159	09/18/2015	Bays, F. Barry	JOINT SPACER SYSTEMS AND METHODS
62/293,189	[]	159	02/09/2016	Bays, F. Barry	TARSAL-METATARSAL JOINT PROCEDURE UTILIZING FULCRUM
62/366,219	[]	159	07/25/2016	Bays, F. Barry	JOINT SPACER SYSTEMS AND METHODS
62/380,074	[]	159	08/26/2016	Bays, F. Barry	OSTEOTOMY PROCEDURE FOR CORRECTING BONE MISALIGNMENT
63/174,691	[]	159	04/14/2021	Bays, F. Barry	SYSTEMS AND TECHNIQUES FOR PERFORMING PATIENT-SPECIFIC BONE ALIGNMENT AND FUSION

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08/198,406	[]	161	02/22/1994	DAYTON, PAUL	MINIATURIZED ACOUSTIC HEARING AID MODULE FOR EMPLACEMENT COMPLETELY WITHIN AN EAR CANAL
08/277,679	[]	161	07/20/1994	DAYTON, PAUL	ACOUSTIC MODULE FOR A HEARING AID
18/147,437	12081940	150	12/28/2022	DAYTON, PAUL	ACOUSTIC RECEIVER AND METHOD OF MAKING SAME
60/060,790	[]	159	10/03/1997	DAYTON, PAUL	ULTRASOUND BUBBLE RECOGNITION IMAGING
60/071,389	[]	159	01/15/1998	DAYTON, PAUL	ULTRASOUND BUBBLE RECOGNITION IMAGING
60/075,147	[]	159	02/19/1998	DAYTON, PAUL	USE OF BJERKNES FORCES TO MANIQULATE CONTRAST AGENTS
60/075,168	[]	159	02/19/1998	DAYTON, PAUL	"HIGH RESOLUTION OPTICAL SYSTEM FOR MAPPING ULTRASONIC BEAM PROFILES"
60/094,717	[]	159	07/30/1998	DAYTON, PAUL	USE OF ULTRASOUND TO IMPROVE CONTRAST-ASSISTED MAGNETIC RESONANCE IMAGING THROUGH RADIATION FORCE AND MICROBUBBLE DESTRUCTION
60/113,199	[]	159	12/22/1998	DAYTON, PAUL	DRUG DELIVERY INCORPORATING LEUKOCYTES WITH ENDOCYTOSED MICROBUBBLES AND DRUGS
16/608,406	[]	120	10/25/2019	DAYTON, Paul Alexander	ADAPTIVE MULTIFOCUS BEAMFORMING ULTRASOUND METHODS AND SYSTEMS FOR IMPROVED PENETRATION AND TARGET SENSITIVITY AT HIGH FRAME-RATES
09/485,412	6371917	250	08/31/2000	Dayton, Paul	Ultrasound bubble recognition imaging
10/928,648	7358226	150	08/26/2004	Dayton, Paul	ULTRASONIC CONCENTRATION OF DRUG DELIVERY CAPSULES
11/356,843	[]	161	02/17/2006	Dayton, Paul	Ultrasonic concentration of carrier particles
14/403,767	[]	161	11/25/2014	Dayton, Paul	CATHETER DEVICE IMPLEMENTING HIGH FREQUENCY, CONTRAST IMAGING ULTRASOUND TRANSDUCER, AND ASSOCIATED METHOD
14/457,023	10322178	150	08/11/2014	Dayton, Paul	SYSTEMS AND METHODS FOR TARGETED DRUG DELIVERY
14/799,981	[]	161	07/15/2015	Dayton, Paul	BONE POSITIONING AND CUTTING SYSTEM AND METHOD
14/917,469	[]	161	03/08/2016	Dayton, Paul	METHODS AND COMPOSITIONS FOR TUMOR VASCULATURE IMAGING AND TARGETED THERAPY
14/981,335	9622805	150	12/28/2015	Dayton, Paul	BONE POSITIONING AND PREPARING GUIDE SYSTEMS AND METHODS
14/990,368	10245088	150	01/07/2016	Dayton, Paul	BONE PLATING SYSTEM AND METHOD
14/990,574	9687250	150	01/07/2016	Dayton, Paul	BONE CUTTING GUIDE SYSTEMS AND METHODS
15/047,288	10849631	150	02/18/2016	Dayton, Paul	PIVOTABLE BONE CUTTING GUIDE USEFUL FOR BONE REALIGNMENT AND COMPRESSION TECHNIQUES
15/047,343	10245086	150	02/18/2016	Dayton, Paul	BONE PLATING KIT FOR FOOT AND ANKLE APPLICATIONS
15/148,774	10653467	150	05/06/2016	Dayton, Paul	INTRA-OSSEOUS PLATE SYSTEM AND METHOD
15/210,426	9936994	150	07/14/2016	Dayton, Paul	BONE POSITIONING GUIDE
15/210,497	10849663	150	07/14/2016	Dayton, Paul	BONE CUTTING GUIDE SYSTEMS AND METHODS
15/236,464	10342590	150	08/14/2016	Dayton, Paul	TARSAL-METATARSAL JOINT PROCEDURE UTILIZING FULCRUM
15/267,531	10575862	150	09/16/2016	Dayton, Paul	JOINT SPACER SYSTEMS AND METHODS

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15/452,236	10045807	150	03/07/2017	Dayton, Paul	BONE POSITIONING AND PREPARING GUIDE SYSTEMS AND METHODS
15/603,056	10603046	150	05/23/2017	Dayton, Paul	BONE CUTTING GUIDE SYSTEMS AND METHODS
15/894,702	10555757	150	02/12/2018	Dayton, Paul	BONE POSITIONING AND CUTTING SYSTEM AND METHOD
15/910,428	10335220	150	03/02/2018	Dayton, Paul	BONE POSITIONING GUIDE
16/031,855	10849670	150	07/10/2018	Dayton, Paul	BONE POSITIONING AND PREPARING GUIDE SYSTEMS AND METHODS
16/278,255	11154340	150	02/18/2019	Dayton, Paul	BONE PLATING SYSTEM AND METHOD
16/278,264	11344347	150	02/18/2019	Dayton, Paul	BONE PLATING KIT FOR FOOT AND ANKLE APPLICATIONS
16/422,557	11185359	150	05/24/2019	Dayton, Paul	BONE POSITIONING GUIDE
16/448,357	11413081	150	06/21/2019	Dayton, Paul	TARSAL-METATARSAL JOINT PROCEDURE UTILIZING FULCRUM
16/467,640	[]	161	06/07/2019	Dayton, Paul	DIAPHRAGM FOR A RECEIVER
16/484,908	[]	161	08/09/2019	Dayton, Paul	DIAPHRAGM USING SILOXANE MATERIAL FOR AN ACOUSTIC RECEIVER, COMBINATIONS THEREOF AND METHODS THEREFOR
16/505,363	11278337	150	07/08/2019	Dayton, Paul	TARSAL-METATARSAL JOINT PROCEDURE UTILIZING FULCRUM
16/593,153	10561426	150	10/04/2019	Dayton, Paul	BONE CUTTING GUIDE SYSTEMS AND METHODS
16/630,874	11582558	150	01/14/2020	Dayton, Paul	ACOUSTIC RECEIVER AND METHOD OF MAKING SAME
16/730,424	10945764	150	12/30/2019	Dayton, Paul	BONE POSITIONING AND CUTTING SYSTEM AND METHOD
16/731,612	10874446	150	12/31/2019	Dayton, Paul	BONE POSITIONING GUIDE
16/750,829	11648019	150	01/23/2020	Dayton, Paul	JOINT SPACER SYSTEMS AND METHODS
16/767,188	11607197	150	05/27/2020	Dayton, Paul	INTER-ELEMENT MATRIX IN ULTRASOUND CONTRAST AGENTS POPULATIONS TO MEASURE TRANSPORT PARAMETERS
16/792,880	10888335	150	02/17/2020	Dayton, Paul	BONE CUTTING GUIDE SYSTEMS AND METHODS
16/877,159	11426219	150	05/18/2020	Dayton, Paul	INTRA-OSSEOUS PLATE SYSTEM AND METHOD
16/997,864	11116558	150	08/19/2020	Dayton, Paul	BONE POSITIONING GUIDE
16/998,155	11039873	150	08/20/2020	Dayton, Paul	BONE POSITIONING AND PREPARING GUIDE SYSTEMS AND METHODS
17/106,306	11963703	150	11/30/2020	Dayton, Paul	BONE CUTTING GUIDE SYSTEMS AND METHODS
17/106,314	11844533	150	11/30/2020	Dayton, Paul	PIVOTABLE BONE CUTTING GUIDE USEFUL FOR BONE REALIGNMENT AND COMPRESSION TECHNIQUES
17/118,597	11786257	150	12/10/2020	Dayton, Paul	BONE CUTTING GUIDE SYSTEMS AND METHODS
17/163,120	11622797	150	01/29/2021	Dayton, Paul	METATARSOPHALANGEAL JOINT PREPARATION AND METATARSAL REALIGNMENT FOR FUSION
17/201,008	11147590	150	03/15/2021	Dayton, Paul	BONE POSITIONING AND CUTTING SYSTEM AND METHOD
17/325,167	12004789	150	05/19/2021	Dayton, Paul	DEVICES AND TECHNIQUES FOR TREATING METATARSUS ADDUCTUS
17/353,431	11213333	150	06/21/2021	Dayton, Paul	BONE POSITIONING AND PREPARING GUIDE SYSTEMS AND METHODS
17/503,730	11937849	150	10/18/2021	Dayton, Paul	BONE POSITIONING AND CUTTING SYSTEM AND METHOD

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17/510,107	12059185	150	10/25/2021	Dayton, Paul	BONE PLATING SYSTEM AND METHOD
17/537,183	11602386	150	11/29/2021	Dayton, Paul	BONE POSITIONING GUIDE
17/567,879	11602387	150	01/03/2022	Dayton, Paul	BONE POSITIONING AND PREPARING GUIDE SYSTEMS AND METHODS
17/577,202	12161371	150	01/17/2022	Dayton, Paul	CONTOURED BONE PLATE WITH LOCKING SCREW FOR BONE COMPRESSION, PARTICULARLY ACROSS A TARSOMETATARSAL JOINT
17/640,073	12283264	150	03/03/2022	Dayton, Paul	Targeted Multifocal Lens for Biological Sample Processing and Related Methods
17/674,447	[]	95	02/17/2022	Dayton, Paul	SYSTEM AND TECHNIQUE FOR METATARSAL REALIGNMENT WITH REDUCED INCISION LENGTH
17/828,002	[]	41	05/30/2022	Dayton, Paul	BONE PLATING KIT FOR FOOT AND ANKLE APPLICATIONS
17/836,801	11497528	150	06/09/2022	Dayton, Paul	BONE POSITIONING AND CUTTING SYSTEM AND METHOD
17/836,809	11523845	150	06/09/2022	Dayton, Paul	BONE POSITIONING AND CUTTING SYSTEM AND METHOD
17/887,755	[]	93	08/15/2022	Dayton, Paul	DEVICES AND TECHNIQUES FOR TREATING METATARSUS ADDUCTUS
17/888,272	11690659	150	08/15/2022	Dayton, Paul	TARSAL-METATARSAL JOINT PROCEDURE UTILIZING FULCRUM
17/897,321	11969193	150	08/29/2022	Dayton, Paul	INTRA-OSSEOUS PLATE SYSTEM AND METHOD
17/946,797	[]	41	09/16/2022	Dayton, Paul	MULTIPLE THICKNESS SAW BLADE FOR PRECISION ORTHOPEDIC CUTS
17/948,847	[]	41	09/20/2022	Dayton, Paul	TAPERED LOBULAR SURGICAL DRIVER AND IMPLANT SYSTEM AND TECHNIQUE FOR DISENGAGING DRIVER DURING SURGERY
18/057,762	11771443	150	11/21/2022	Dayton, Paul	JOINT SPACER SYSTEMS AND METHODS
18/064,916	11771467	150	12/12/2022	Dayton, Paul	BONE POSITIONING AND CUTTING SYSTEM AND METHOD
18/173,605	[]	41	02/23/2023	Dayton, Paul	ANATOMICALLY-FITTED TARSOMETATARSAL BONE PLATE
18/173,634	[]	41	02/23/2023	Dayton, Paul	FIRST METATARSAL LATERAL RELEASE INSTRUMENT AND TECHNIQUE
18/173,649	[]	41	02/23/2023	Dayton, Paul	MULTI-SIDED CUTTING INSTRUMENT FOR MOBILIZING SMALL BONES IN THE FOOT
18/174,596	[]	41	02/24/2023	Dayton, Paul	DEVICES AND TECHNIQUES FOR TREATING LESSER METATARSALS OF THE FOOT
18/182,995	11950819	150	03/13/2023	Dayton, Paul	BONE POSITIONING GUIDE
18/183,013	11911085	150	03/13/2023	Dayton, Paul	BONE POSITIONING AND PREPARING GUIDE SYSTEMS AND METHODS
18/297,712	[]	93	04/10/2023	Dayton, Paul	METATARSOPHALANGEAL JOINT PREPARATION AND METATARSAL REALIGNMENT FOR FUSION
18/323,138	[]	30	05/24/2023	Dayton, Paul	TARSAL-METATARSAL JOINT PROCEDURE UTILIZING FULCRUM
18/437,056	[]	30	02/08/2024	Dayton, Paul	SMALL BONE FIXATION SYSTEMS AND TECHNIQUES WITH GUIDE SLEEVE
18/437,073	[]	30	02/08/2024	Dayton, Paul	CONTOUR GUIDE FOR SMALL BONE SURFACE MODIFICATION
18/437,089	[]	30	02/08/2024	Dayton, Paul	PINNING AND DRILLING INSTRUMENTS FOR SMALL BONE IMPLANT PLACEMENT
18/467,509	[]	30	09/14/2023	Dayton, Paul	MINIMALLY INVASIVE METATARSAL REALIGNMENT
18/479,708	[]	93	10/02/2023	Dayton, Paul	JOINT SPACER SYSTEMS AND METHODS

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18/544,406	[]	41	12/18/2023	Dayton, Paul	PIVOTABLE BONE CUTTING GUIDE USEFUL FOR BONE REALIGNMENT AND COMPRESSION TECHNIQUES
18/587,921	12274481	150	02/26/2024	Dayton, Paul	BONE POSITIONING AND PREPARING GUIDE SYSTEMS AND METHODS
18/615,875	[]	71	03/25/2024	Dayton, Paul	BONE POSITIONING AND CUTTING SYSTEM AND METHOD
18/627,609	12102368	150	04/05/2024	Dayton, Paul	BONE POSITIONING GUIDE
18/642,470	[]	41	04/22/2024	Dayton, Paul	BONE CUTTING GUIDE SYSTEMS AND METHODS
18/645,205	12268397	150	04/24/2024	Dayton, Paul	BONE CUTTING GUIDE SYSTEMS AND METHODS
18/645,596	12268428	150	04/25/2024	Dayton, Paul	TARSAL-METATARSAL JOINT PROCEDURE UTILIZING FULCRUM
18/649,799	[]	71	04/29/2024	Dayton, Paul	INTRA-OSSEOUS PLATE SYSTEM AND METHOD
18/689,948	[]	30	03/07/2024	Dayton, Paul	TARGETED NANODROPLET AND MICROBUBBLE COMPOSITIONS AND METHODS FOR ENRICHMENT, LYSIS, AND EXTRACTION OF MICROBIAL CELLS
18/773,547	[]	30	07/15/2024	Dayton, Paul	DISTAL OSTEOTOMY METATARSAL CORRECTION SYSTEMS AND TECHNIQUES
18/801,659	[]	30	08/12/2024	Dayton, Paul	BONE PLATING SYSTEM AND METHOD
18/890,338	[]	30	09/19/2024	Dayton, Paul	BONE POSITIONING PLATFORM
18/901,388	[]	30	09/30/2024	Dayton, Paul	BONE POSITIONING GUIDE
18/974,748	[]	30	12/09/2024	Dayton, Paul	CONTOURED BONE PLATE WITH LOCKING SCREW FOR BONE COMPRESSION, PARTICULARLY ACROSS A TARSOMETATARSAL JOINT
19/030,046	[]	30	01/17/2025	Dayton, Paul	TARSAL-METATARSAL JOINT PROCEDURE UTILIZING FULCRUM
19/030,114	[]	30	01/17/2025	Dayton, Paul	BONE POSITIONING AND PREPARING GUIDE SYSTEMS AND METHODS
19/030,150	[]	30	01/17/2025	Dayton, Paul	BONE CUTTING GUIDE SYSTEMS AND METHODS
19/031,828	[]	30	01/18/2025	Dayton, Paul	BONE POSITIONING AND CUTTING SYSTEM AND METHOD
29/827,982	[]	61	02/23/2022	Dayton, Paul	MULTI-SIDED CUTTING INSTRUMENT FOR MOBILIZING SMALL BONES IN THE FOOT
29/827,985	D1075012	150	02/23/2022	Dayton, Paul	METATARSAL LATERAL RELEASE INSTRUMENT
29/912,200	[]	30	09/14/2023	Dayton, Paul	ORTHOPEDIC CORNER CHISEL
60/498,405	[]	159	08/27/2003	Dayton, Paul	Ultrasonic concentration of drug delivery capsules
60/839,356	[]	159	08/21/2006	Dayton, Paul	Liposomes on microbubbles, a new promising acoustically active drug delivery vehicle
60/977,627	[]	159	10/04/2007	Dayton, Paul	Methods And Agents For Imaging And Drug Delivery
61/654,335	[]	159	06/01/2012	Dayton, Paul	CATHETER DEVICE IMPLEMENTING HIGH FREQUENCY, CONTRAST IMAGING ULTRASOUND TRANSDUCER, AND ASSOCIATED METHOD
61/877,526	[]	159	09/13/2013	Dayton, Paul	METHODS AND COMPOSITIONS FOR TUMOR VASCULATURE IMAGING AND TARGETED THERAPY
62/024,546	[]	159	07/15/2014	Dayton, Paul	BONE POSITIONING AND CUTTING SYSTEM AND METHOD
62/100,641	[]	159	01/07/2015	Dayton, Paul	BONE CUTTING GUIDE SYSTEMS AND METHODS

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62/103,736	[]	159	01/15/2015	Dayton, Paul	Receiver With Piece Parts In A Single Assembly
62/117,747	[]	159	02/18/2015	Dayton, Paul	BONE CUTTING GUIDE SYSTEMS AND METHODS
62/136,801	[]	159	03/23/2015	Dayton, Paul	Cantilever Diaphragm Apparatus
62/145,964	[]	159	04/10/2015	Dayton, Paul	CURVED BONE PLATE
62/157,561	[]	159	05/06/2015	Dayton, Paul	INTRA-OSSEOUS PLATE SYSTEM AND METHOD
62/192,290	[]	159	07/14/2015	Dayton, Paul	BONE CUTTING GUIDE SYSTEMS AND METHODS
62/192,319	[]	159	07/14/2015	Dayton, Paul	BONE POSITIONING SYSTEMS AND METHODS
62/205,338	[]	159	08/14/2015	Dayton, Paul	BONE POSITIONING AND PREPARING GUIDE SYSTEMS AND METHODS
62/293,189	[]	159	02/09/2016	Dayton, Paul	TARSAL-METATARSAL JOINT PROCEDURE UTILIZING FULCRUM
62/366,219	[]	159	07/25/2016	Dayton, Paul	JOINT SPACER SYSTEMS AND METHODS
62/431,579	[]	159	12/08/2016	Dayton, Paul	DIAPHRAGM FOR A RECEIVER
62/456,919	[]	159	02/09/2017	Dayton, Paul	DIAPHRAGM FOR AN ACOUSTIC RECEIVER, COMBINATIONS THEREOF AND METHODS THEREFOR
62/532,887	[]	159	07/14/2017	Dayton, Paul	ACOUSTIC RECEIVER AND METHOD OF MAKING SAME
62/591,174	[]	159	11/27/2017	Dayton, Paul	INTER-ELEMENT MATRIX IN ULTRASOUND CONTRAST AGENTS POPULATIONS TO MEASURE TRANSPORT PARAMETERS
62/897,054	[]	159	09/06/2019	Dayton, Paul	Targeted Multifocal Lens for Biological Sample Processing Applications
62/968,244	[]	159	01/31/2020	Dayton, Paul	METATARSOPHALANGEAL JOINT PREPARATION AND METATARSAL REALIGNMENT FOR FUSION
63/026,186	[]	159	05/18/2020	Dayton, Paul	Targeted Multifocal Lens for Biological Sample Processing Applications
63/027,340	[]	159	05/19/2020	Dayton, Paul	DEVICES AND TECHNIQUES FOR TREATING METATARSUS ADDUCTUS
63/126,207	[]	159	12/16/2020	Dayton, Paul	DEVICES AND TECHNIQUES FOR TREATING METATARSUS ADDUCTUS
63/138,726	[]	159	01/18/2021	Dayton, Paul	CONTOURED BONE PLATE WITH LOCKING SCREW FOR BONE COMPRESSION, PARTICULARLY ACROSS A TARSOMETATARSAL JOINT
63/151,041	[]	159	02/18/2021	Dayton, Paul	SYSTEM AND TECHNIQUE FOR METATARSAL REALIGNMENT WITH REDUCED INCISION LENGTH
63/241,214	[]	159	09/07/2021	Dayton, Paul	Methods and design of nanodroplets and microbubbles with molecular probes for targeted and enhanced lysis and extraction of microbial samples
63/245,186	[]	159	09/16/2021	Dayton, Paul	MULTIPLE THICKNESS SAW BLADE FOR PRECISION ORTHOPEDIC CUTS
63/246,772	[]	159	09/21/2021	Dayton, Paul	TAPERED LOBULAR SURGICAL DRIVER AND IMPLANT SYSTEM AND TECHNIQUE FOR DISENGAGING DRIVER DURING SURGERY
63/313,124	[]	159	02/23/2022	Dayton, Paul	MULTI-SIDED CUTTING INSTRUMENT FOR MOBILIZING SMALL BONES IN THE FOOT
63/313,131	[]	159	02/23/2022	Dayton, Paul	FIRST METATARSAL LATERAL RELEASE INSTRUMENT AND TECHNIQUE
63/313,162	[]	159	02/23/2022	Dayton, Paul	ANATOMICALLY-FITTED TARSOMETATARSAL BONE PLATE

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63/313,274	[]	160	02/24/2022	Dayton, Paul	DEVICES AND TECHNIQUES FOR TREATING LESSER METATARSALS OF THE FOOT
63/313,726	[]	159	02/24/2022	Dayton, Paul	DEVICES AND TECHNIQUES FOR TREATING LESSER METATARSALS OF THE FOOT
63/406,486	[]	159	09/14/2022	Dayton, Paul	MINIMALLY INVASIVE METATARSAL REALIGNMENT
63/513,728	[]	159	07/14/2023	Dayton, Paul	OSTEOTOMY SYSTEMS AND TECHNIQUES FOR TREATING METATARSAL MISALIGNMENT
63/519,036	[]	159	08/11/2023	Dayton, Paul	SMALL BONE FIXATION SYSTEMS AND TECHNIQUES WITH GUIDE SLEEVE
63/583,743	[]	159	09/19/2023	Dayton, Paul	BONE POSITIONING PLATFORM
63/583,746	[]	159	09/19/2023	Dayton, Paul	SMALL BONE FIXATION SYSTEMS AND TECHNIQUES WITH GUIDE SLEEVE
63/625,739	[]	159	01/26/2024	Dayton, Paul	OSTEOTOMY SYSTEMS AND TECHNIQUES FOR TREATING METATARSAL MISALIGNMENT
63/778,346	[]	20	03/26/2025	Dayton, Paul	INSTRUMENT AND TECHNIQUE FOR RELEASING SOFT TISSUE AT THE METATARSOPHALANGEAL JOINT
12/247,782	[]	161	10/08/2008	Dayton, Paul A.	MULTIPLE-LAYER MICROBUBBLE LIPOSPHERE DRUG DELIVERY VEHICLE AND SYSTEM
13/393,500	9532769	150	05/14/2012	Dayton, Paul A.	SYSTEMS, METHODS, AND COMPUTER READABLE MEDIA FOR HIGH FREQUENCY CONTRAST IMAGING AND IMAGE-GUIDED THERAPEUTICS
13/876,165	9427410	150	08/30/2013	Dayton, Paul A.	FORMULATION OF ACOUSTICALLY ACTIVATABLE PARTICLES HAVING LOW VAPORIZATION ENERGY AND METHODS FOR USING SAME
15/247,840	11123302	150	08/25/2016	Dayton, Paul A.	FORMULATION OF ACOUSTICALLY ACTIVATABLE PARTICLES HAVING LOW VAPORIZATION ENERGY AND METHODS FOR USING SAME
17/479,395	[]	30	09/20/2021	Dayton, Paul A.	FORMULATION OF ACOUSTICALLY ACTIVATABLE PARTICLES HAVING LOW VAPORIZATION ENERGY AND METHODS FOR USING SAME
60/721,319	[]	159	09/27/2005	Dayton, Paul A.	Method for concentrating drug delivery vehicles or imaging agents with ultrasound
60/978,193	[]	159	10/08/2007	Dayton, Paul A.	METHOD OF MANUFACTURING DUAL-LAYER MICROBUBBLE LIPOSPHERES IN MICROFLUIDIC DEVICES
61/240,166	[]	159	09/04/2009	Dayton, Paul A.	SYSTEMS, METHODS, AND COMPUTER READABLE MEDIA FOR HIGH FREQUENCY CONTRAST IMAGING AND IMAGE-GUIDED THERAPEUTICS
61/391,569	[]	159	10/08/2010	Dayton, Paul A.	METHODS FOR ACOUSTICALLY ACTIVATABLE PARTICLES
61/505,915	[]	159	07/08/2011	Dayton, Paul A.	FORMULATION AND ULTRASOUND STUDIES OF A NEW PRO-BUBBLE (PHASE-SHIFT AGENT) FOR ACTIVATION WITH LOW ACOUSTIC INTENSITIES
61/709,488	[]	159	10/04/2012	Dayton, Paul A.	METHODS AND SYSTEMS FOR USING ENCAPSULATED MICROBUBBLES TO PROCESS BIOLOGICAL SAMPLES
14/432,747	9982290	150	03/31/2015	Dayton, Paul Alexander	METHODS AND SYSTEMS FOR USING ENCAPSULATED MICROBUBBLES TO PROCESS BIOLOGICAL SAMPLES
15/035,211	[]	161	05/06/2016	Dayton, Paul Alexander	ACOUSTIC DETECTION OF ACTIVATED PHASE-CHANGE CONTRAST AGENT

Last Name: Dayton
First Name: Paul

Examiner: NEGRELLIRODRIGUEZ, CHRISTINA

APP. #	Patent #	Status	Filing Date	Inventor Name	Title
15/396,719	[]	160	01/02/2017	Dayton, Paul Alexander	SYSTEMS, METHODS, AND COMPUTER READABLE MEDIA FOR HIGH FREQUENCY CONTRAST IMAGING AND IMAGE-GUIDED THERAPEUTICS
15/545,947	11304676	150	07/24/2017	Dayton, Paul Alexander	APPARATUSES, SYSTEMS, AND METHODS FOR PRECLINICAL ULTRASOUND IMAGING OF SUBJECTS
15/880,481	10493038	150	01/25/2018	Dayton, Paul Alexander	FORMULATION OF ACOUSTICALLY ACTIVATABLE PARTICLES HAVING LOW VAPORIZATION ENERGY AND METHODS FOR USING SAME
15/990,171	11485994	150	05/25/2018	Dayton, Paul Alexander	METHODS AND SYSTEMS FOR USING ENCAPSULATED MICROBUBBLES TO PROCESS BIOLOGICAL SAMPLES
16/327,726	[]	71	02/22/2019	Dayton, Paul Alexander	SYSTEM AND METHOD FOR NONINVASIVELY ASSESSING BIOENGINEERED ORGANS
16/521,183	[]	161	07/24/2019	Dayton, Paul Alexander	METHODS, SYSTEMS, AND COMPUTER READABLE MEDIA FOR TRANSLATING SAMPLE PLATE OVER FIXED ULTRASOUND TRANSDUCER
17/016,304	[]	61	09/09/2020	Dayton, Paul Alexander	METHODS AND SYSTEMS FOR USING PHASE CHANGE NANODROPLETS TO ENHANCE SONOTHROMBOLYSIS
17/054,383	[]	30	11/10/2020	Dayton, Paul Alexander	METHOD TO EXTRACT CHROMATIN FROM FORMALIN FIXED, PARAFFIN EMBEDDED (FFPE) TISSUE
17/606,986	12150813	150	10/27/2021	Dayton, Paul Alexander	METHODS, SYSTEMS, AND COMPUTER READABLE MEDIA FOR GENERATING SUPER-RESOLUTION IMAGES OF MICROVASCULATURE USING ULTRASOUND
17/922,522	[]	30	10/31/2022	Dayton, Paul Alexander	METHODS AND SYSTEMS FOR ENHANCING DELIVERY OF THERAPEUTIC AGENTS TO BIOFILMS USING LOW BOILING POINT PHASE CHANGE CONTRAST AGENTS
17/961,538	[]	30	10/06/2022	Dayton, Paul Alexander	METHODS AND SYSTEMS FOR USING ENCAPSULATED MICROBUBBLES TO PROCESS BIOLOGICAL SAMPLES
18/715,639	[]	30	05/31/2024	Dayton, Paul Alexander	SEQUENCING AND STRATEGIES FOR ENHANCING INTRAVASCULAR THROMBUS DISRUPTION WITH PHASE-CHANGE CAVITATION ENHANCING AGENTS
19/100,114	[]	19	[]	Dayton, Paul Alexander	INTRAVASCULAR DUAL FREQUENCY SONOTHROMBOLYSIS MEDIATED WITH MICROBUBBLES/NANODROPLETS
61/902,150	[]	159	11/08/2013	Dayton, Paul Alexander	METHODS, SYSTEMS, AND COMPUTER READABLE MEDIA FOR ACOUSTIC DETECTION OF ACTIVATED ULTRASOUND PHASE-CHANGE CONTRAST AGENTS
62/107,321	[]	159	01/23/2015	Dayton, Paul Alexander	APPARATUSES, SYSTEMS, AND METHODS FOR PRECLINICAL ULTRASOUND IMAGING OF SUBJECTS
62/383,068	[]	159	09/02/2016	Dayton, Paul Alexander	SYSTEM AND METHOD FOR NONINVASIVELY ASSESSING BIOENGINEERED ORGANS
62/503,880	[]	159	05/09/2017	Dayton, Paul Alexander	ADAPTIVE MULTIFOCUS BEAMFORMING ULTRASOUND METHODS AND SYSTEMS FOR IMPROVED PENETRATION AND TARGET SENSITIVITY AT HIGH FRAME-RATES
62/669,715	[]	159	05/10/2018	Dayton, Paul Alexander	METHOD TO EXTRACT CHROMATIN FROM FORMALIN FIXED, PARAFFIN EMBEDDED (FFPE) TISSUE

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Examiner: NEGRELLIRODRIGUEZ, CHRISTINA

APP. #	Patent #	Status	Filing Date	Inventor Name	Title
62/702,694	[]	159	07/24/2018	Dayton, Paul Alexander	METHODS, SYSTEMS, AND COMPUTER READABLE MEDIA FOR TRANSLATING SAMPLE PLATE OVER FIXED ULTRASOUND TRANSDUCER
62/846,133	[]	159	05/10/2019	Dayton, Paul Alexander	METHOD FOR GENERATING IMAGES OF MICROVASCULATURE USING ULTRASOUND
62/897,759	[]	159	09/09/2019	Dayton, Paul Alexander	THE USE OF PHASE CHANGE NANODROPLETS TO ENHANCE SONOTHROMBOLYSIS
63/032,905	[]	159	06/01/2020	Dayton, Paul Alexander	METHODS AND SYSTEMS FOR ENHANCING DELIVERY OF THERAPEUTIC AGENTS TO BIOFILMS USING LOW BOILING POINT PHASE CHANGE CONTRAST AGENTS
63/284,902	[]	159	12/01/2021	Dayton, Paul Alexander	SEQUENCING AND STRATEGIES FOR ENHANCING INTRAVASCULAR THROMBUS DISRUPTION WITH PHASE-CHANGE CAVITATION ENHANCING AGENTS
63/395,835	[]	159	08/07/2022	Dayton, Paul Alexander	INTRAVASCULAR DUAL FREQUENCY SONOTHROMBOLYSIS MEDIATED WITH MICROBUBBLES/NANODROPLETS
63/531,151	[]	159	08/07/2023	Dayton, Paul Alexander	ULTRASOUND CONTRAST AGENT FOR BINDING WITH OR ADHERING TO RESPIRATORY MUCUS AND METHODS FOR USING SAME
63/650,474	[]	20	05/22/2024	Dayton, Paul Alexander	ULTRASOUND CONTRAST AGENT FOR BINDING WITH OR ADHERING TO RESPIRATORY MUCUS AND METHODS FOR USING SAME
17/145,503	11399235	150	01/11/2021	Dayton, Paul C	BALANCED ARMITURE RECEIVER
14/729,657	[]	161	06/03/2015	Dayton, Paul C.	Torsion Diaphragm Apparatus
61/982,127	[]	159	04/21/2014	Dayton, Paul C.	Receiver Apparatus With Ringed Stack
61/982,160	[]	159	04/21/2014	Dayton, Paul C.	Receiver Apparatus With A One-Piece Yoke
61/982,167	[]	159	04/21/2014	Dayton, Paul C.	Receiver Apparatus With Strap-Like Yoke
61/994,511	[]	159	05/16/2014	Dayton, Paul C.	Housing For Receiver Apparatus
61/994,520	[]	159	05/16/2014	Dayton, Paul C.	Biocompatible Receiver Apparatus
61/994,532	[]	159	05/16/2014	Dayton, Paul C.	Housing With Return Path
61/994,547	[]	159	05/16/2014	Dayton, Paul C.	Housing With Registration
61/994,561	[]	159	05/16/2014	Dayton, Paul C.	Housing With Shielding
62/014,415	[]	159	06/19/2014	Dayton, Paul C.	Torsion Diaphragm Apparatus
62/029,651	[]	159	07/28/2014	Dayton, Paul C.	Acoustic Apparatus With Integral Stiffener
62/029,658	[]	159	07/28/2014	Dayton, Paul C.	Acoustic Apparatus With Additional Separate Stiffener
62/029,667	[]	159	07/28/2014	Dayton, Paul C.	Acoustic Apparatus With Pivot Line
62/029,674	[]	159	07/28/2014	Dayton, Paul C.	Acoustic Apparatus With Compliant Membrane
62/029,717	[]	159	07/28/2014	Dayton, Paul C.	Acoustic Apparatus With Vents
62/029,727	[]	159	07/28/2014	Dayton, Paul C.	Unvented Acoustic Assembly
62/029,733	[]	159	07/28/2014	Dayton, Paul C.	Acoustic Apparatus With Drive Rod
62/047,093	[]	159	09/08/2014	Dayton, Paul C.	Coil Connector Utilizing Skeining Connection
62/047,094	[]	159	09/08/2014	Dayton, Paul C.	Coil Connector Using Pig-Tail Connection
62/047,098	[]	159	09/08/2014	Dayton, Paul C.	Coil Connection Using Circuit Board
62/047,099	[]	159	09/08/2014	Dayton, Paul C.	Radially Layered Coils In A Receiver
62/047,101	[]	159	09/08/2014	Dayton, Paul C.	End-To-End Coils In A Receiver

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APP. #	Patent #	Status	Filing Date	Inventor Name	Title
62/047,104	[]	159	09/08/2014	Dayton, Paul C.	Receiver With A Motor Having An Anti-Corrosive And Structurally Sound Coil
62/047,112	[]	159	09/08/2014	Dayton, Paul C.	Receiver With Self-Bonding Coil
62/047,121	[]	159	09/08/2014	Dayton, Paul C.	Receiver With Potted Coil
62/047,129	[]	159	09/08/2014	Dayton, Paul C.	Receiver With Coil Having Skirts For Increased Surface Area
62/047,140	[]	159	09/08/2014	Dayton, Paul C.	Receiver With Coil Having Stand-Off Ribs
62/047,149	[]	159	09/08/2014	Dayton, Paul C.	Receiver With Dog-House Tube Structure
62/047,157	[]	159	09/08/2014	Dayton, Paul C.	Bifilar Coil In Receiver
62/047,165	[]	159	09/08/2014	Dayton, Paul C.	Receiver With Tube Having Screen

Bibliographic Data

Application No: 18/615,875

Foreign Priority claimed: ○ Yes ◉ No

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

Verified and Acknowledged: /CHRISTINA NEGRELLIRODRIGUEZ/ Examiner's Signature | Initials

Title: BONE POSITIONING AND CUTTING SYSTEM AND METHOD

FILING or 371(c) DATE	CLASS	GROUP ART UNIT	ATTORNEY DOCKET NO.
03/25/2024	606	3773	71212.4.1.USC7
RULE			

APPLICANTS

Treace Medical Concepts, Inc., Ponte Vedra, FL, UNITED STATES

INVENTORS

Paul Dayton, Ankeny, IA, UNITED STATES

F. Barry Bays, Collierville, TN, UNITED STATES

CONTINUING DATA

This application is a CON of 17503730 10/18/2021 PAT 11937849

17503730 is a CON of 17201008 03/15/2021 PAT 11147590

17201008 is a CON of 16730424 12/30/2019 PAT 10945764

16730424 is a CON of 15894702 02/12/2018 PAT 10555757

15894702 is a DIV of 14799981 07/15/2015ABN

14799981 has PRO of 62024546 07/15/2014

FOREIGN APPLICATIONS

IF REQUIRED, FOREIGN LICENSE GRANTED**

05/01/2024

**** SMALL ENTITY ****

STATE OR COUNTRY

UNITED STATES

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FILING FEE RECEIVED

$6,020

*all references in circled areas below have been considered

PE2E SEARCH - Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	British Equivalents	Time Stamp
L1	70	(Treace Medical Concepts).as.	(US-PGPUB; USPAT)	ADJ	ON	ON	2025/02/03 01:37 PM
L2	172	(Paul NEAR2 Dayton).in.	(US-PGPUB; USPAT)	ADJ	ON	ON	2025/02/03 01:38 PM
L3	159	(Barry NEar2 Bays).in.	(US-PGPUB; USPAT)	ADJ	ON	ON	2025/02/03 01:38 PM
L4	1	"4988349".pn.	(US-PGPUB; USPAT)	ADJ	ON	ON	2025/02/03 01:59 PM
L5	33	"20090118733"	(US-PGPUB; USPAT)	ADJ	ON	ON	2025/02/03 02:57 PM
L6	1	"4988349".pn.	(US-PGPUB; USPAT)	ADJ	ON	ON	2025/02/03 04:02 PM
L7	1539	A61B17/66.cpc.	(US-PGPUB; USPAT)	ADJ	ON	ON	2025/02/04 10:00 AM
L8	162	A61B17/64.cpc.	(US-PGPUB; USPAT)	ADJ	ON	ON	2025/02/04 10:00 AM
L9	392	A61B17/6416.cpc.	(US-PGPUB; USPAT)	ADJ	ON	ON	2025/02/04 10:00 AM
L11	568	A61B17/6425.cpc.	(US-PGPUB; USPAT)	ADJ	ON	ON	2025/02/04 10:00 AM
L12	270	A61B17/6458.cpc.	(US-PGPUB; USPAT)	ADJ	ON	ON	2025/02/04 10:00 AM
L13	941	A61B17/7052.cpc.	(US-PGPUB; USPAT)	ADJ	ON	ON	2025/02/04 10:01 AM
L14	79	(Treace Medical Concepts).as.	(US-PGPUB; USPAT)	ADJ	ON	ON	2025/05/13 04:54 PM
L15	178	(Paul NEAR2 Dayton).in.	(US-PGPUB; USPAT)	ADJ	ON	ON	2025/05/13 04:54 PM
L20	28	(metatarsal) AND A61B17/64.cpc.	(US-PGPUB; USPAT)	OR	ON	ON	2025/05/13 05:08 PM
L22	112	(metatarsal OR cuneiform) AND A61B17/6416.cpc.	(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); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/05/13 05:09 PM
L23	174	(metatarsal OR	(US-PGPUB; USPAT;	OR	ON	ON	2025/05/13

		cuneiform) AND A61B17/6425.cpc.	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); FPRS; EPO; JPO; DERWENT; IBM_TDB)				05:10 PM
L24	75	(metatarsal OR cuneiform) AND A61B17/6441.cpc.	(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); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/05/13 05:10 PM
L25	101	(metatarsal OR cuneiform) AND A61B17/645.cpc.	(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); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/05/13 05:10 PM
L26	87	(metatarsal OR cuneiform) AND A61B17/6458.cpc.	(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,	OR	ON	ON	2025/05/13 05:10 PM

			PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)				
L27	75	(metatarsal OR cuneiform) AND A61B17/6466.cpc.	(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); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/05/13 05:10 PM
L28	26	(metatarsal OR cuneiform) AND A61B17/6491.cpc.	(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); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/05/13 05:10 PM
L29	451	(metatarsal OR cuneiform) AND A61B17/66.cpc.	(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); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/05/13 05:10 PM
L30	68	(metatarsal OR cuneiform) AND	(US-PGPUB; USPAT; USOCR; FIT (AP, AT,	OR	ON	ON	2025/05/13 05:11 PM

		606/54-59.ccls.	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); FPRS; EPO; JPO; DERWENT; IBM_TDB)				
L31	8	(metatarsal OR cuneiform) AND 606/90.ccls.	(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); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/05/13 05:11 PM
L32	19	(metatarsal OR cuneiform) AND 606/105.ccls.	(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); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/05/13 05:11 PM

PE2E SEARCH - Search History (Interference)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	British Equivalents	Time Stamp
N1	0	(bunion surgery) AND (metatarsal) AND (cuneiform) AND (bone positioning device) AND (bone connector) AND	(US-PGPUB; USPAT)	ADJ	ON	ON	2025/05/13 05:22 PM

		(joint plate) AND (guide feature) AND (cutting tool) AND (leading edge) AND (second fixation pin) AND (multiple planes).clm.					

UNITED STATES
PATENT AND TRADEMARK OFFICE

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ELECTRONIC PAYMENT RECEIPT

APPLICATION #	RECEIPT DATE / TIME	ATTORNEY DOCKET #
18/615,875	**05/12/2025 11:15:00 PM Z ET**	**71212.4.1.USC7**

Title of Invention

BONE POSITIONING AND CUTTING SYSTEM AND METHOD

Application Information

APPLICATION TYPE	Utility - Nonprovisional Application under 35 USC 111(a)	PATENT #	-
CONFIRMATION #	8549	FILED BY	Paul LaVanway
PATENT CENTER #	70400347	AUTHORIZED BY	-
CUSTOMER #	22859	FILING DATE	03/25/2024
CORRESPONDENCE ADDRESS	-	FIRST NAMED INVENTOR	Paul Dayton

Payment Information

PAYMENT METHOD	PAYMENT TRANSACTION ID	PAYMENT AUTHORIZED BY
CARD / 1071	**E20255BN15278238**	**Paul LaVanway**

FEE CODE	DESCRIPTION	ITEM PRICE($)	QUANTITY	ITEM TOTAL($)
2202	EACH CLAIM IN EXCESS OF 20	80.00	7	560.00
			TOTAL AMOUNT:	**$560.00**

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 #
18/615,875	**05/12/2025 11:15:00 PM Z ET**	**71212.4.1.USC7**

Title of Invention

BONE POSITIONING AND CUTTING SYSTEM AND METHOD

Application Information

APPLICATION TYPE	Utility - Nonprovisional Application under 35 USC 111(a)	PATENT #	-
CONFIRMATION #	8549	FILED BY	Paul LaVanway
PATENT CENTER #	70400347	FILING DATE	03/25/2024
CUSTOMER #	22859	FIRST NAMED INVENTOR	Paul Dayton
CORRESPONDENCE ADDRESS	-	AUTHORIZED BY	-

Documents

TOTAL DOCUMENTS: 1

DOCUMENT	PAGES	DESCRIPTION	SIZE (KB)
71212_4_1_USC7_Resp.pdf	9	Amendment/Request for Reconsideration-After Non-Final Rejection	136 KB

Digest

DOCUMENT	MESSAGE DIGEST(SHA-512)
71212_4_1_USC7_Resp.pdf	3512CE9F4B0DCEF7C1210378DB3850AF1E17CE1A7880D8703 96229292149D491C2F8FEB735F1AE1325D0B25D32FF9EE772 E3DCB0D1479D3DF87607F83117F804

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22859
Customer Number

PATENT
Attorney Docket No.: 71212.4.1.USC7

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

First Named Inventor:	Paul Dayton		
Application No.:	18/615,875	Group Art Unit:	3773
Filed:	March 25, 2024	Examiner:	CHRISTINA NEGRELLIRODRIGUEZ
Title:	BONE POSITIONING AND CUTTING SYSTEM AND METHOD		

AMENDMENT

Dear Commissioner:

In response to the Office Action mailed February 13, 2025, the period of response for which runs through May 13, 2025, please amend the application as follows.

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

This listing of claims will replace all prior versions and listings of claims in the application.

Listing of Claims:

1–20. (Canceled)

21. (New) A method of performing a bunion surgery to correct an alignment between a first metatarsal and a first cuneiform, the method comprising:

engaging a bone positioning device with a first metatarsal using a first fixation pin and with a first cuneiform using a second fixation pin, the bone positioning device extending across a joint separating the first metatarsal from the first cuneiform;

aligning a bone cutting guide with the joint between the first metatarsal and the first cuneiform, the bone cutting guide comprising a joint plate offset from a guide feature of the bone cutting guide, the joint plate extending downwardly relative to the guide feature, wherein aligning the bone cutting guide with the joint comprises inserting the joint plate into the joint;

using the guide feature of the bone cutting guide to guide a cutting tool to cut a leading edge of the first metatarsal;

using the bone positioning device to adjust an alignment of the first metatarsal in multiple planes to correct a bunion;

compressing the first metatarsal and the first cuneiform together; and

fixing a position of the first metatarsal relative to the first cuneiform with a bone connector.

22. (New) The method of claim 21, further comprising, prior to fixing the position of the first metatarsal relative to the first cuneiform with the bone connector, temporarily fixing the position of the first metatarsal relative to the first cuneiform.

23. (New) The method of claim 21, further comprising cutting a leading edge of the first cuneiform.

24. (New) The method of claim 23, wherein cutting the leading edge of the first cuneiform comprises cutting the leading edge of the first cuneiform after using the bone positioning device to adjust the alignment of the first metatarsal.

25. (New) The method of claim 23, wherein cutting the leading edge of the first cuneiform comprises using the guide feature of the bone cutting guide to guide the cutting tool to cut the leading edge of the first cuneiform.

26. (New) The method of claim 21, further comprising, after fixing the position of the first metatarsal relative to the first cuneiform with the bone connector, removing the first fixation pin from the first metatarsal and removing the second fixation pin from the first cuneiform.

27. (New) The method of claim 21, wherein the joint plate defines a plane, the guide feature defines a plane, and the plane defined by the joint plate is parallel to the plane defined by the guide feature.

28. (New) The method of claim 27, wherein the bone cutting guide comprises a handle extending away from the joint plate at an angle between 30 degrees and 60 degrees with respect to the plane.

29. (New) The method of claim 21, wherein the joint plate is offset from the guide feature by being spaced laterally from the guide feature, and the guide feature defines a guiding surface that is offset from the joint plate a distance ranging from 1 millimeter to 20 millimeters.

30. (New) The method of claim 21, wherein the joint plate is integral with the guide feature.

31. (New) The method of claim 21, wherein using the guide feature of the bone cutting guide to guide the cutting tool comprises placing the cutting tool in apposition to a guide surface defined by the guide feature of the bone cutting guide.

32. (New) The method of claim 31, wherein the guide surface is operable to guide the cutting tool in a plane parallel to the guide surface.

33. (New) The method of claim 21, wherein using the guide feature of the bone cutting guide to guide the cutting tool comprises placing the cutting tool in contact with a guide surface defined by the guide feature of the bone cutting guide.

34. (New) The method of claim 21, wherein the cutting tool is a saw blade.

35. (New) The method of claim 21, wherein the bone connector comprises one or more of a plate, a screw, and a pin.

36. (New) The method of claim 21, wherein compressing the first metatarsal and the first cuneiform together comprises applying a force to press a first fixation pin inserted into the first metatarsal and a second fixation pin inserted into the first cuneiform toward one another.

37. (New) The method of claim 21, wherein the bone positioning device comprises a sliding connection and a screw, and compressing the first metatarsal and the first cuneiform together comprises operating the screw.

38. (New) A method of performing a bunion surgery to correct an alignment between a first metatarsal and a first cuneiform, the method comprising:

engaging a bone positioning device with a first metatarsal using a first fixation pin and with a first cuneiform using a second fixation pin, the bone positioning device extending across a joint separating the first metatarsal from the first cuneiform;

aligning a bone cutting guide with the joint between the first metatarsal and the first cuneiform, the bone cutting guide comprising a joint plate offset from a guide feature of the bone cutting guide, the joint plate extending downwardly relative to the guide feature, wherein aligning the bone cutting guide with the joint comprises inserting the joint plate into the joint;

using the guide feature of the bone cutting guide to guide a cutting tool to cut a leading edge of the first metatarsal;

using the bone positioning device to adjust an alignment of the first metatarsal in multiple planes to correct a bunion;

after using the bone positioning device to adjust the alignment of the first metatarsal in multiple planes to correct the bunion, cutting a leading edge of the first cuneiform;

compressing the first metatarsal and the first cuneiform together; and

fixing a position of the first metatarsal relative to the first cuneiform with a bone connector.

39. (New) The method of claim 38, further comprising, prior to fixing the position of the first metatarsal relative to the first cuneiform with the bone connector, temporarily fixing the position of the first metatarsal relative to the first cuneiform.

40. (New) The method of claim 38, further comprising, after fixing the position of the first metatarsal relative to the first cuneiform with the bone connector, removing the first fixation pin from the first metatarsal and removing the second fixation pin from the first cuneiform.

41. (New) The method of claim 38, wherein cutting the leading edge of the first cuneiform comprises using the guide feature of the bone cutting guide to guide the cutting tool to cut the leading edge of the first cuneiform.

42. (New) The method of claim 38, wherein the joint plate defines a plane, the guide feature defines a plane, and the plane defined by the joint plate is parallel to the plane defined by the guide feature.

43. (New) The method of claim 42, wherein the bone cutting guide comprises a handle extending away from the joint plate at an angle.

44. (New) The method of claim 38, wherein the guide surface is operable to guide the cutting tool in a plane parallel to the guide surface.

45. (New) The method of claim 38, wherein the bone connector comprises one or more of a plate, a screw, and a pin.

46. (New) The method of claim 38, wherein compressing the first metatarsal and the first cuneiform together comprises applying a force to press the first fixation pin inserted into the first metatarsal and the second fixation pin inserted into the first cuneiform toward one another.

47. (New) The method of claim 38, wherein the bone positioning device comprises a sliding connection and a screw, and compressing the first metatarsal and the first cuneiform together comprises operating the screw.

REMARKS

This Amendment is responsive to the Office Action dated February 13, 2025. Applicant has canceled claims 1–20 and added new claims 21–47. No new matter has been added by way of the amendments, and support for the amendments can be found throughout Applicant's original disclosure. Claims 21–47 will be pending upon entry of this Amendment. Reconsideration of the application is respectfully requested.

Interview Summary

Applicant thanks the Examiner for her time and the courtesies extended during the telephonic interview conducted on May 5, 2025. Examiner Christina Negrellirodriguez and Applicant's representative Paul J. LaVanway, Jr. (Reg. No. 64,610) were involved in the telephonic interview. The parties discussed rejected independent claim 1 and Pennig (US Patent No. 4,988,349) and Orsak et al. (US Publication No. 2009/0118733), which were previously cited by the Patent Office. No exhibits were introduced or discussed.

Applicant's representative discussed amending the claims consistent with the amendments presented herein, and Applicant's representative and the Examiner specifically reviewed and discussed the language of new claim 21 as presented herein. Agreement was reached that the claim amendments would overcome the outstanding rejections. While no agreement on allowability was reached during the telephonic interview, the Examiner agreed to evaluate the claims for allowability during further search and examination.

Allowable Subject Matter

The Office Action indicated the subject matter of previously-presented claims 17-19 as being allowable but objected to the claims as being dependent upon a rejected base claim. Applicant thanks the Examiner for the indication of allowability and agrees that the previously-presented claims present patentable subject matter. Applicant respectfully submits that all of the amended claims present patentable subject matter. Accordingly, reconsideration and allowance of all claims is respectfully requested.

Claim Objection

In the Office Action, previously-presently claim 12 was objected to because of a missing semicolon. Applicant is presently canceling claim 12, rendering the objection with respect to the claim moot.

Claim Rejections Under 35 U.S.C. § 112

In the Office Action, previously-presented claim 11 was rejected under 35 U.S.C. §112(b) as purportedly being indefinite for failing to particularly point out and distinctly claim the subject matter which Applicant regards as the invention. Applicant is presently canceling claim 11, rendering the rejection with respect to the claim moot.

Claim Rejections Under 35 U.S.C. §§ 102(a)(1) and 103

In the Office Action, previously-presented claims 1-3, 8, 12-16, and 20 were rejected under 35 U.S.C. § 102(a)(1) as purportedly being anticipated by Pennig (US Patent No. 4,988,349, hereinafter "Pennig") and previously-presented claims 1, 2, 4-10, and 11 were rejected under 35 U.S.C. § 102(a)(1) as purportedly being anticipated by Orsak et al. (US Publication No. 2009/0118733 A1, hereinafter "Orsak"). In addition, claims 4 and 5 were rejected under 35 U.S.C. § 103(a) as purportedly being unpatentable over Pennig in view of Zhang et al. (US Publication No. 2009/0198279 A1, hereinafter "Zhang").

While Applicant does not concede the propriety of the rejections, Applicant has amended the claims to advance prosecution and grant of the application. As discussed and agreed during the telephonic interview, the amendments overcome the rejections based on the cited references. Accordingly, Applicant reserves further comment regarding the distinctions between the claims and the applied references.

CONCLUSION

It is submitted that all claims in this application are in condition for allowance. Applicant respectfully requests reconsideration and allowance of all pending claims.

The Commissioner is authorized to charge any deficiencies and credit any overpayments to Deposit Account No. 06-1910. The Examiner is invited to telephone the undersigned attorney to discuss this application.

Dated: May 12, 2025

Respectfully submitted,

/Paul J. LaVanway, Jr./

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Paul J. LaVanway, Jr.
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Please grant any extension of time necessary for entry; charge any fee due to Deposit Account No. 06-1910.

86162513v1

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PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875	Application or Docket Number 18/615,875	Filing Date 03/25/2024	☐ 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 $40 =	
INDEPENDENT CLAIMS (37 CFR 1.16(h))	minus 3 =	*		x $ 192 =	
☐ APPLICATION SIZE FEE (37 CFR 1.16(s))	If the specification and drawings exceed 100 sheets of paper, the application size fee due is $310 ($155 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).				
☐ MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))					
* If the difference in column 1 is less than zero, enter "0" in column 2.				TOTAL	

APPLICATION AS AMENDED - PART II

		(Column 1)		(Column 2)	(Column 3)			
AMENDMENT	05/12/2025	CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA		RATE ($)	ADDITIONAL FEE ($)
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	Independent (37 CFR 1.16(h))	* 2	Minus	*** 3	= 0		x $240 =	0
	☐ Application Size Fee (37 CFR 1.16(s))							
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))							
							TOTAL ADD'L FEE	0

		(Column 1)		(Column 2)	(Column 3)			
AMENDMENT		CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA		RATE ($)	ADDITIONAL FEE ($)
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	Independent (37 CFR 1.16(h))	*	Minus	***	=		x $0 =	
	☐ Application Size Fee (37 CFR 1.16(s))							
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APPLICATION #	RECEIPT DATE / TIME	ATTORNEY DOCKET #
18/615,875	**02/25/2025 11:20:13 AM Z ET**	**71212.4.1.USC7**

Title of Invention

BONE POSITIONING AND CUTTING SYSTEM AND METHOD

Application Information

APPLICATION TYPE	Utility - Nonprovisional Application under 35 USC 111(a)	PATENT #	-
CONFIRMATION #	8549	FILED BY	Zachary Anderson
PATENT CENTER #	69323744	FILING DATE	03/25/2024
CUSTOMER #	22859	FIRST NAMED INVENTOR	Paul Dayton
CORRESPONDENCE ADDRESS	-	AUTHORIZED BY	Paul LaVanway

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- [ ] Other:
- [x] Small Entity Later Established*

**(Must be filed within 3 months of payment date, 37 CFR 1.28. There is no refund when micro entity is later established.)*

Rationale *(Supporting documentation may be submitted with this form)*

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Address Line 2 *(if applicable)*	**Country**	**Zip/Postal Code**
	US	55402
Email Address *(You will receive an acknowledgment of receipt only if you provide a valid email address)*	**Phone Number**	
IP@fredlaw.com	612-492-7000	
Requester's Name		**Registration Number** *(if applicable)*
Paul J. LaVanway, Jr.		64610
Signature		**Date** *(mm/dd/yyyy)*
/Paul J. LaVanway, Jr./		02/24/2025

Submit online via Patent Center (Patents customers who are registered users only): https://patentcenter.uspto.gov, or
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ACKNOWLEDGEMENT OF CHANGE TO SMALL ENTITY STATUS

APPLICATION #	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTORNEY DOCKET #	REQUEST ID
18/615,875	03/25/2024	Paul Dayton	71212.4.1.USC7	360379

The entity status change request below filed through Patent Center on 02/25/2025 has been accepted.

Certifications

APPLICANT ASSERTING SMALL ENTITY STATUS. See 37CFR 1.27.

Signature

I certify, in accordance with 37 CFR 1.4(d)(4), that I am one of the signatories making the entity status change.

Signature	Name	Registration #
/Paul J. LaVanway, Jr./	Paul LaVanway	64610

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
18/615,875	03/25/2024	Paul Dayton	71212.4.1.USC7	8549

22859 7590 02/13/2025

FREDRIKSON & BYRON, P.A.
INTELLECTUAL PROPERTY GROUP
60 SOUTH SIXTH STREET, SUITE 1500
MINNEAPOLIS, MN 55402

EXAMINER
NEGRELLIRODRIGUEZ, CHRISTINA

ART UNIT	PAPER NUMBER
3773	

NOTIFICATION DATE	DELIVERY MODE
02/13/2025	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):

IP@FREDLAW.COM

Office Action Summary	Application No. 18/615,875	Applicant(s) Dayton et al.	
	Examiner CHRISTINA NEGRELLI-RODRIGUEZ	Art Unit 3773	AIA (FITF) Status Yes

-- 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 03/25/2024.

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

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

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

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

Disposition of Claims*

5) ☑ Claim(s) 1-20 is/are pending in the application.

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

6) ☐ Claim(s) _____ is/are allowed.

7) ☑ Claim(s) 1-16 and 20 is/are rejected.

8) ☑ Claim(s) 17-19 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 03/25/2024 is/are: a)☑ accepted or b)☐ objected to by the Examiner.

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

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

Priority under 35 U.S.C. § 119

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

Certified copies:

a)☐ All b)☐ Some** c)☐ None of the:

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

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

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

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

Attachment(s)

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

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

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

4) ☐ Other: _____.

DETAILED ACTION

Notice of Pre-AIA or AIA Status

The present application, filed on or after March 16, 2013, is being examined under the first inventor to file provisions of the AIA.

Claim Objections

Claim 12 is objected to because of the following informalities:

Claim 12, line 9 is missing a semicolon.

Appropriate correction is required.

Claim Rejections - 35 USC § 112

The following is a quotation of 35 U.S.C. 112(b):
(b) CONCLUSION.—The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the inventor or a joint inventor regards as the invention.

The following is a quotation of 35 U.S.C. 112 (pre-AIA), second paragraph:
The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claim 11 is rejected under 35 U.S.C. 112(b) or 35 U.S.C. 112 (pre-AIA), second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which the inventor or a joint inventor (or for applications subject to pre-AIA 35 U.S.C. 112, the applicant), regards as the invention.

Claim 11 recites the limitation "the first or second set screw" in line 1. There is insufficient antecedent basis for this limitation in the claim. For the purpose of examining the claim, the limitation will be interpreted as “a first or second set screw”.

Appropriate correction is required.

Claim Rejections - 35 USC § 102

In the event the determination of the status of the application as subject to AIA 35 U.S.C. 102 and 103 (or as subject to pre-AIA 35 U.S.C. 102 and 103) is incorrect, any correction of the statutory basis (i.e., changing from AIA to pre-AIA) for the rejection will not be considered a new ground of rejection if the prior art relied upon, and the rationale supporting the rejection, would be the same under either status.

The following is a quotation of the appropriate paragraphs of 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 –
>
> (a)(1) the claimed invention was patented, described in a printed publication, or in public use, on sale, or otherwise available to the public before the effective filing date of the claimed invention.

Claims 1, 2, 3, 8, 12-16 and 20 are rejected under 35 U.S.C. 102(a)(1) as being anticipated by Pennig (U.S. Patent No.4,988,349).

Regarding Claim 1, Pennig discloses a bone positioning device (Fig. 1), comprising: a first fixation pin for attachment to a first bone; a second fixation pin for attachment to a second bone; a first block having a first aperture for slidably receiving the first fixation pin; a second block having a second aperture for slidably receiving the second fixation pin; and a multi-axis joint connecting the first block and the second block (see Figure 1 below), the multi-axis joint allowing the first block and the second block to move with respect to each other about more than one axis (see description of "double ball hinge" found in col.2, ll.19-32).

Regarding Claim 2, Pennig further discloses wherein the multi-axis joint further includes a link (12) having a first end (15) rotatably connected to the first block and a second end (14) rotatably connected to the second block (Fig. 2 and col.2, ll.19-32).

Regarding Claim 3, Pennig further discloses wherein the first end (15) includes a first ball received within a first socket of the first block, and the second end (14) includes a second ball received within a second socket of the second block (Fig. 2 and col.2, ll.19-32).

Regarding Claim 8, Pennig further discloses a compression screw (10) operable to exert a compression force between the first and second fixation pins (Fig. 2 and col.2; ll.16-18).

Regarding claim 12, Pennig discloses a method of fixing the orientation of a first bone with respect to a second bone (col.1, ll.55-66), comprising the steps of: attaching a first fixation pin to a first bone (see Figure 1 below); attaching a second fixation pin to a second bone (see Figure 1 below); inserting the first fixation pin within a first aperture (30) of a first block (see Figure 1 below); inserting the second fixation pin within a second aperture (30) of a second block (see Figure 1 below); positioning the first block along and about the first fixation pin (col.2, ll.44-53); actuating a first set screw (29) to fix a position of the first block along and about the first fixation pin (col.2, ll.33-43); positioning the second block along and about the second fixation pin (col.2, ll.44-53); actuating a second set screw (29) to fix a position of the second block along and about the second fixation pin (col.2, ll.33-43); adjusting the position of the first block with respect to the second block (via double-ball hinge 3) about at least a first axis and a second axis (col.2, ll.19-32); actuating a third set screw (screw 21) to fix a position about the first axis (col.2, ll.27-32); and actuating a fourth set screw (second screw 21) to fix a position about the second axis (col.2, ll.27-32).

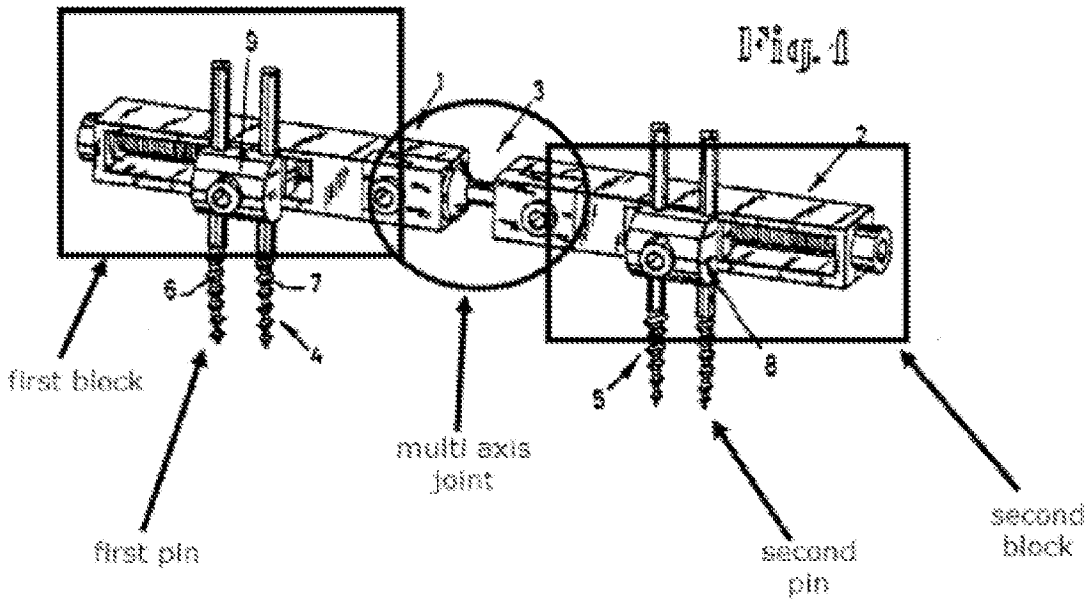
Regarding claim 13, Pennig further discloses the step of actuating a compression screw (spindles 10, 11) to apply a compression force between the first and second bones and facilitate a desired alignment between first and second bones (col.2, ll.44-53).

Regarding claim 14, Pennig further discloses the step of imaging the first and second bones connected to the first and second blocks (col.1, ll.55-62).

Regarding claim 15, Pennig further discloses the step of positioning a cutting guide (fastening supports 8 and 9) proximate a leading edge of the first or second bone, and cutting the bone with a cutting tool (second sets of nails 6, 7) guided by the cutting guide.

Regarding claim 16, Pennig further discloses the step of actuating a compression screw (screw spindles 10, 11) to apply a compression force between the first and second bones after the cutting step and facilitate a desired alignment between first and second bones (col.2, ll.26-28 and 44-53).

Regarding claim 20, Pennig discloses a bone cutting guide, comprising; a plate defining a plane (plates 1, 2); a block having a guiding surface integral with or coupled to the plate (fastening supports 8, 9), the guiding surface being parallel to the plane and being spaced laterally therefrom Figure 1); and a handle extending from the plate (setting members 4, 5).



Claims 1, 2, 4-10 and 11 are rejected under 35 U.S.C. 102(a)(1) as being anticipated by Orsak et al. (U.S. Publication No.2009/0118733 A1; hereinafter "Orsak").

Regarding Claim 1, Orsak discloses a bone positioning device (Fig. 11A-F), comprising: a first fixation pin (fixation pin which extends through 142 shown in Fig. 11C-D, described in para.0111) for attachment to a first bone (see Figure 11D below); a second fixation pin for attachment to a second bone (fixation pin which extends through 1143 shown in Fig. 11C-D, para.0111, see Figure 11D below); a first block having a first aperture for slidably receiving the first fixation pin; a second block having a second aperture for slidably receiving the second fixation pin; and a multi-axis joint connecting the first block and the second block (see Figure 11D below), the multi-axis joint (3010) allowing the first block and the second block to move with respect to each other about more than one axis (see description of 3010 found in para.0115).

Regarding Claim 2, Orsak further discloses wherein the multi-axis joint (3010) further includes a link (see "H-shaped body" disclosed in para.0115) having a first end (see Figure 11F below) rotatably connected to the first block and a second end (see Figure 11F below) rotatably connected to the second block (para.0115).

Regarding Claim 4, Orsak further discloses a first end set screw (3022) extending through the first block and positioned against the first end (Fig. 11F).

Regarding Claim 5, Orsak further discloses a second end set screw (3024) extending through the second block and positioned against the second end (Fig. 11F).

Regarding Claim 6, Orsak further discloses a first set screw (186) extending through the first block into the first aperture and positioned against the first fixation pin, and a second set screw (1186) extending through the second block into the second aperture and positioned against the second fixation pin.

Regarding Claim 7, Orsak further discloses wherein the first and second set screws (186, 1186) are positioned perpendicular to first and second fixation pins, respectively (Fig. 11F) (para.0111).

Regarding Claim 8, Orsak further discloses a compression screw (155) operable to exert a compression force between the first and second fixation pins (Fig. 11C, para.0068).

Regarding Claim 10, Orsak further discloses wherein the first block has a first portion (143) slidingly connected to second portion (1010A) (Fig. 11C-D), the first aperture extending through the first portion and the second portion (see Figure 11C below), the first aperture having a first cross-sectional area in the first portion and a second cross-sectional area in the second portion, the first cross-sectional area being smaller than the second cross- sectional area (see Figure 11C below), and the compression screw (155) extending through the second portion (1010A) (Fig. 11C).

Regarding Claim 11, Orsak further discloses wherein a first or second set screw (186) extends through the first portion (see Figure 11F).

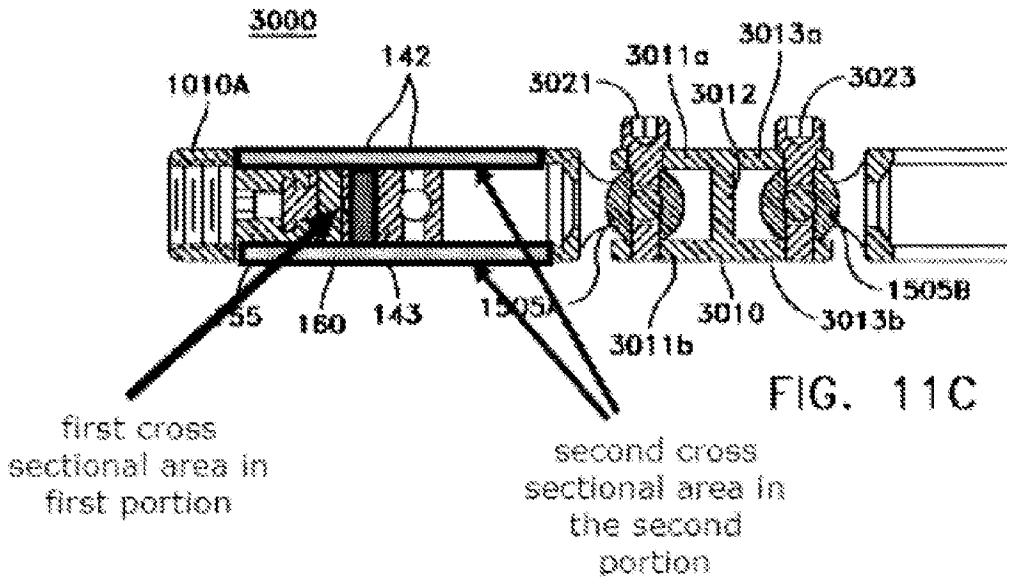


FIG. 11C

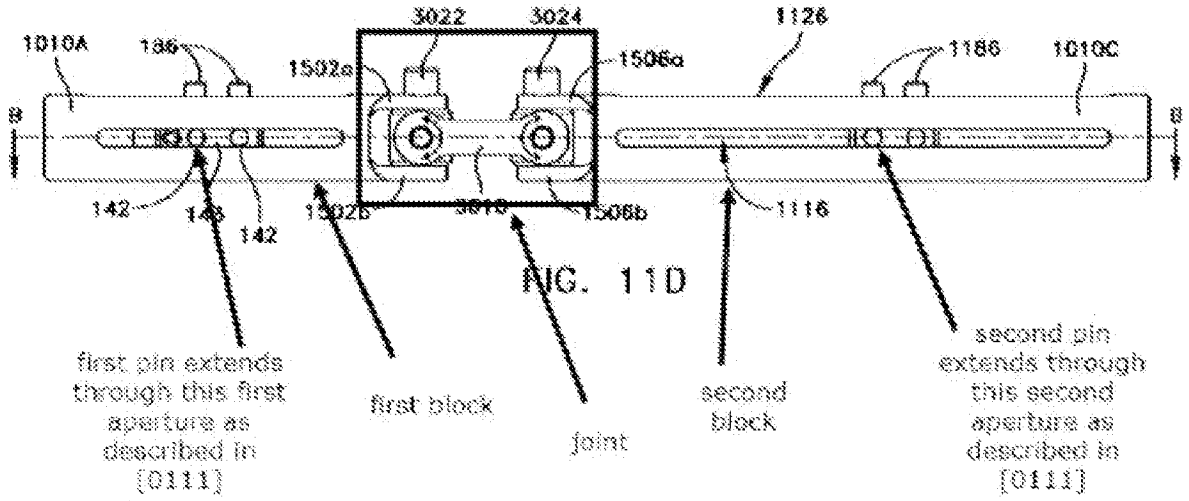


FIG. 11D

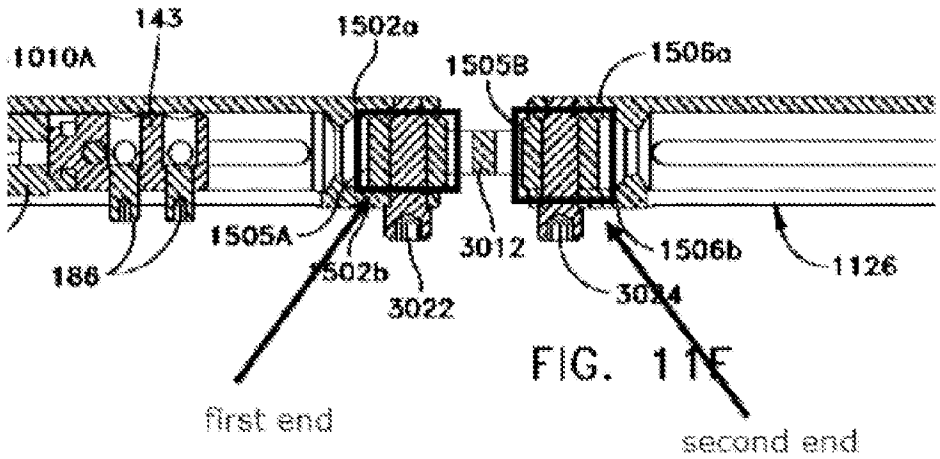


FIG. 11E

(second interpretation) Regarding Claim 1, Orsak discloses a bone positioning device (Fig. 11A-F), comprising: a first fixation pin (pin is considered a combination of elements 143 and 5a - 5a is shown in Fig. 1A while 143 can be seen in Fig. 11C); a second fixation pin for attachment to a second bone (fixation pin which extends through 1143 shown in Fig. 11C-D, para.0111, see Figure 11C below); a first block (1010A) having a first aperture for slidably receiving the first fixation pin (see Figure 11C below for second interpretation of aperture); a second block (1010C and 1143) having a second aperture for slidably receiving the second

fixation pin (Fig. 11C); and a multi-axis joint connecting the first block and the second block, the multi-axis joint (3010) allowing the first block and the second block to move with respect to each other about more than one axis (see description of 3010 found in para.0115).

(second interpretation) Regarding Claim 8, Orsak further discloses a compression screw (155) operable to exert a compression force between the first and second fixation pins (Figure 11C, para.0068).

(second interpretation) Regarding Claim 9, Orsak further discloses wherein the compression screw (155) is positioned against one of the first or second fixation pins (155 is against portion 143 of the first pin as shown in Figure 11C below).

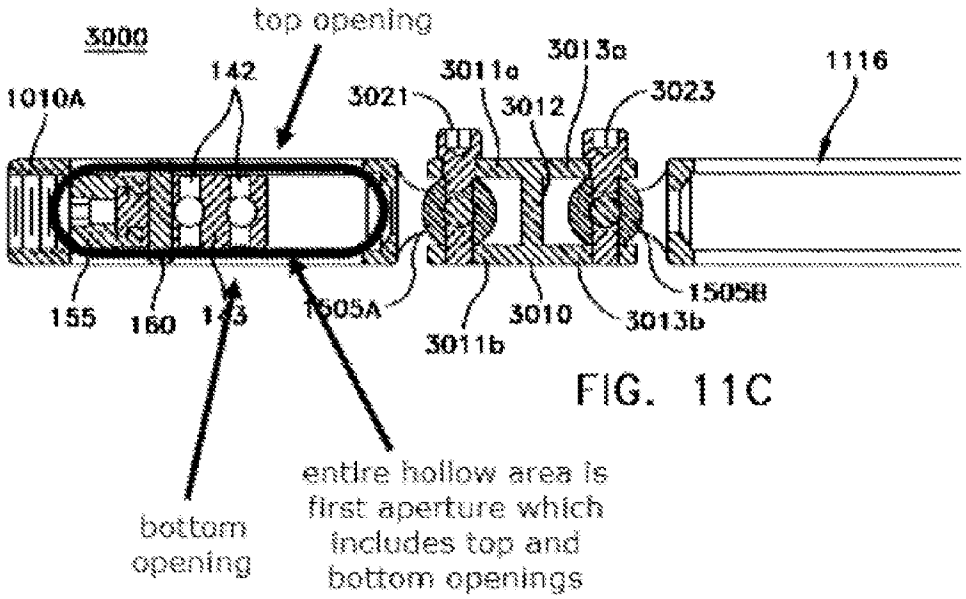


FIG. 11C

Claim Rejections - 35 USC § 103

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

> A patent for a claimed invention may not be obtained, notwithstanding that the claimed invention is not identically disclosed as set forth in section 102, if the differences between the claimed invention and the prior art are such that the claimed invention as a whole would have been obvious before the effective filing date of the claimed invention to a person having ordinary skill in the art to which the claimed invention pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 4 and 5 are rejected under 35 U.S.C. 103 as being unpatentable over Pennig in view of Zhang et al. (U.S. Publication No.2009/0198279 A1; hereinafter "Zhang").

Pennig discloses the bone positioning device of claims 1 and 2 as described in the rejection above. Pennig discloses that the first end and second end of the multi axis joint are locked in position within the first and second blocks respectively with set screws (21) which act to clamp the ends in place within the blocks (see Fig. 2, col. 27- 32). However, Pennig is silent to the clamping mechanism which locks the ends in position within the blocks including set screws which are positioned against the ends of the link.

Zhang discloses a bone positioning device (Fig. 9 and Fig. 27) in the analogous art of bone fixation devices which includes a multi axis ball joint between two segments, the ball joint being locked in place via a set screw (116) which extends through the segment housing the ball and comes into direct contact with the ball of the joint for the purpose of clamping against the ball end and preventing further movement of the multi axis joint (Fig. 9, 27). It would have been obvious to one having ordinary skill in the art before the effective filing date of the claimed invention to modify the clamping mechanism against the ball ends of Pennig with clamping set screws which directly contact the ball ends as taught by Zhang in order to prevent further movement of the multi axis joint using an equivalent clamping mechanism known in the art.

Allowable Subject Matter

Claims 17-19 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.

Claim 17 in the instant application has not been rejected using prior art because no references, or reasonable combination thereof, could be found to disclose, or suggest removing the first fixation pin from the first bone and the second fixation pin from the second bone after attaching a bone connector to the first and second bones. Pennig fails to disclose wherein the fixation pins are removed from the bones after attaching a bone connector to the bones.

Claims 18 and 19 in the instant application has not been rejected using prior art because no references, or reasonable combination thereof, could be found to disclose, or suggest wherein the first bone is a first portion of a metatarsal and the second bone is a second portion of the metatarsal. Pennig fails to disclose wherein the method is performed in the metatarsal and/or cuneiform bones.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Christina Negrelli whose telephone number is 571-270-7389. The examiner can normally be reached on Monday-Friday, between 8:00am to 4:00pm. If attempts to reach the examiner by telephone are unsuccessful, ***please contact*** **the examiner's supervisor, Eduardo Robert,** ***at*** **(571) 272-4719**. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/CHRISTINA NEGRELLI/

Examiner, Art Unit 3773

/EDUARDO C ROBERT/
Supervisory Patent Examiner, Art Unit 3773

Notice of References Cited	Application/Control No. 18/615,875	Applicant(s)/Patent Under Reexamination Dayton et al.	
	Examiner CHRISTINA NEGRELLI-RODRIGUEZ	Art Unit 3773	Page 1 of 1

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date YYYY-MM-DD	Name	CPC Classification	US Classification
*	A	US-4988349-A	1991-01-29	Pennig; Dietmar	A61B17/66	606/57
*	B	US-20090118733-A1	2009-05-07	Orsak; James Edward	A61B17/6475	606/329
*	C	US-20090198279-A1	2009-08-06	Zhang; Hong	A61B17/7023	606/301
	D					
	E					
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	G					
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	J					
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	M					

FOREIGN PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date YYYY-MM-DD	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 YYYY-MM-DD format are publication dates. Classifications may be US or foreign.

Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	18/615,875	Dayton et al.
	Examiner	**Art Unit**
	CHRISTINA NEGRELLI-RODRIGUEZ	3773

CPC - Searched*		
Symbol	**Date**	**Examiner**
A61B17/64, 6416, 6425, 6458, 66, 7052	02/04/2025	CN

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

US Classification - Searched*			
Class	**Subclass**	**Date**	**Examiner**
606	57	02/04/2025	CN

* 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**
Inventor Name Search	02/04/2025	CN
Considered all references in circled areas in PE2E search (see PE2E printout)	02/04/2025	CN

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

/CHRISTINA NEGRELLIRODRIGUEZ/ Examiner, Art Unit 3773	

Index of Claims	Application/Control No.	Applicant(s)/Patent Under Reexamination
	18/615,875	Dayton et al.
	Examiner	**Art Unit**
	CHRISTINA NEGRELLI-RODRIGUEZ	3773

✓	Rejected	-	Cancelled	N	Non-Elected	A	Appeal
=	Allowed	÷	Restricted	I	Interference	O	Objected

CLAIMS

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

CLAIM		DATE								
Final	Original	02/04/2025								
	1	✓								
	2	✓								
	3	✓								
	4	✓								
	5	✓								
	6	✓								
	7	✓								
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	16	✓								
	17	O								
	18	O								
	19	O								
	20	✓								

Doc code: IDS
Doc description: Information Disclosure Statement (IDS) Filed

PTO/SB/08a (02-18)
Approved for use through 11/30/2020. OMB 0651-0031
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (**Not for submission under 37 CFR 1.99)**		
	Application Number	
	Filing Date	
	First Named Inventor	Paul Dayton
	Art Unit	
	Examiner Name	
	Attorney Docket Number	71212.4.1.USC7

U.S.PATENTS						Remove
Examiner Initial*	Cite No	Patent Number	Kind Code[1]	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	3664022	A	1972-05-23	SMALL	
	2	4069824	A	1978-01-24	WEINSTOCK	
	3	4159716	A	1979-07-03	BORCHERS	
	4	4187840	A	1980-02-12	Watanabe	
	5	4335715	A	1982-06-22	Kirkley	
	6	4338927	A	1982-07-13	Volkov et al.	
	7	4349018	A	1982-09-14	Chambers	
	8	4409973	A	1983-10-18	Neufeld	

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /C.N/

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	
	Filing Date	
	First Named Inventor	Paul Dayton
	Art Unit	
	Examiner Name	
	Attorney Docket Number	71212.4.1.USC7

	9	4440168	A	1984-04-03	Warren	
	10	4501268	A	1985-02-26	Comparetto	
	11	4502474	A	1985-03-05	COMPARETTO	
	12	4509511	A	1985-04-09	Neufeld	
	13	4565191	A	1986-01-21	Slocum	
	14	4570624	A	1986-02-18	Wu	
	15	4627425	A	1986-12-09	Reese	
	16	4628919	A	1986-12-16	Clyburn	
	17	4632102	A	1986-12-30	COMPARETTO	
	18	4664102	A	1987-05-12	Comparetto	
	19	4708133	A	1987-11-24	Comparetto	

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /C.N/

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
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	20	4736737	A	1988-04-12	FARGIE et al.	
	21	4750481	A	1988-06-14	Reese	
	22	4757810	A	1988-07-19	Reese	
	23	4895141	A	1990-01-23	KOENEMAN et al.	
	24	4952214	A	1990-08-28	Comparetto	
	25	4959066	A	1990-09-25	DUNN et al.	
	26	4978347	A	1990-12-18	ILIZAROV	
	27	4988349	A	1991-01-29	PENNIG	
	28	4995875	A	1991-02-26	Coes	
	29	5021056	A	1991-06-04	Hofmann et al.	
	30	5035698	A	1991-07-30	Comparetto	

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /C.N/

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
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	Filing Date	
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	Art Unit	
	Examiner Name	
	Attorney Docket Number	71212.4.1.USC7

	31	5042983	A	1991-08-27	Rayhack	
	32	5049149	A	1991-09-17	Schmidt	
	33	5053039	A	1991-10-01	Hofmann et al.	
	34	5078719	A	1992-01-07	Schreiber	
	35	5112334	A	1992-05-12	Alchermes et al.	
	36	5147364	A	1992-09-15	Comparetto	
	37	5176685	A	1993-01-05	Rayhack	
	38	5207676	A	1993-05-04	Canadell et al.	
	39	5246444	A	1993-09-21	Schreiber	
	40	5254119	A	1993-10-19	SCHREIBER	
	41	5312412	A	1994-05-17	WHIPPLE	

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /C.N/

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	
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	42	5358504	A	1994-10-25	Paley et al.	
	43	5364402	A	1994-11-15	Mumme et al.	
	44	5374271	A	1994-12-20	HWANG	
	45	5413579	A	1995-05-09	DU TOIT	
	46	H001706	H	1998-01-06	Mason	
	47	5449360	A	1995-09-12	SCHREIBER	
	48	5470335	A	1995-11-28	DU TOIT	
	49	5490854	A	1996-02-13	Fisher et al.	
	50	5529075	A	1996-06-25	CLARK	
	51	5540695	A	1996-07-30	LEVY	
	52	5578038	A	1996-11-26	Slocum	

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /C.N/

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
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	Attorney Docket Number	71212.4.1.USC7

	53	5601565	A	1997-02-11	Huebner	
	54	5613969	A	1997-03-25	JENKINS JR	
	55	5620448	A	1997-04-15	PUDDU	
	56	5620442	A	1997-04-15	BAILEY et al.	
	57	5643270	A	1997-07-01	Combs	
	58	5667510	A	1997-09-16	COMBS	
	59	5722978	A	1998-03-03	Jenkins	
	60	5749875	A	1998-05-12	PUDDU	
	61	5779709	A	1998-07-14	Harris et al.	
	62	5788695	A	1998-08-04	RICHARDSON	
	63	5803924	A	1998-09-08	Oni et al.	

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /C.N/

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
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	Filing Date	
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	64	5810822	A	1998-09-22	MORTIER	
	65	5843085	A	1998-12-01	Graser	
	66	5893553	A	1999-04-13	PINKOUS	
	67	5911724	A	1999-06-15	Wehrli	
	68	5935128	A	1999-08-10	Carter et al.	
	69	5941877	A	1999-08-24	Viegas et al.	
	70	5951556	A	1999-09-14	FACCIOLI et al.	
	71	5980526	A	1999-11-09	Johnson et al.	
	72	5984931	A	1999-11-16	GREENFIELD	
	73	6007535	A	1999-12-28	RAYHACK et al.	
	74	6027504	A	2000-02-22	MCGUIRE	

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /C.N/

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
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	75	6030391	A	2000-02-29	Brainard et al.	
	76	6162223	A	2000-12-19	Orsak et al.	
	77	6171309	B1	2001-01-09	Huebner	
	78	6203545	B1	2001-03-20	Stoffella	
	79	6248109	B1	2001-06-19	Stoffella	
	80	6391031	B1	2002-05-21	Toomey	
	81	6478799	B1	2002-11-12	Williamson	
	82	6511481	B2	2003-01-28	von Hoffmann et al.	
	83	6547793	B1	2003-04-15	McGuire	
	84	6676662	B1	2004-01-13	Bagga et al.	
	85	6719773	B1	2004-04-13	Boucher et al.	

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /C.N/

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
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	86	6743233	B1	2004-06-01	Baldwin et al.	
	87	6755838	B2	2004-06-29	Trnka	
	88	6796986	B2	2004-09-28	Duffner	
	89	6859661	B2	2005-02-22	Tuke	
	90	7018383	B2	2006-03-28	McGuire	
	91	7033361	B2	2006-04-25	Collazo	
	92	7112204	B2	2006-09-26	Justin et al.	
	93	7182766	B1	2007-02-27	Mogul	
	94	7241298	B2	2007-07-10	Nemec et al.	
	95	7282054	B2	2007-10-16	Steffensmeier et al.	
	96	7377924	B2	2008-05-27	Raistrick et al.	

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /C.N/

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	97	7465303	B2	2008-12-16	Riccione et al.	
	98	7540874	B2	2009-06-02	Trumble et al.	
	99	7572258	B2	2009-08-11	Stiernborg	
	100	7641660	B2	2010-01-05	Lakin et al.	
	101	D 610257	S	2010-02-16	Horton	
	102	7686811	B2	2010-03-30	Byrd et al.	
	103	7691108	B2	2010-04-06	Lavallee	
	104	7763026	B2	2010-07-27	Egger et al.	
	105	D 629900	S	2010-12-28	Fisher	
	106	7967823	B2	2011-06-28	Ammann et al.	
	107	7972338	B2	2011-07-05	O'Brien	

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /C.N/

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	108	D 646389	S	2011-10-04	Claypool et al.	
	109	8057478	B2	2011-11-15	Kuczynski et al.	
	110	8062301	B2	2011-11-22	Ammann et al.	
	111	8080010	B2	2011-12-20	Schulz et al.	
	112	8083746	B2	2011-12-27	Novak	
	113	D 651316	S	2011-12-27	May et al.	
	114	D 651315	S	2011-12-27	Bertoni et al.	
	115	8123753	B2	2012-02-28	Poncet	
	116	8137406	B2	2012-03-20	Novak et al.	
	117	8147530	B2	2012-04-03	Strnad et al.	
	118	8167918	B2	2012-05-01	Strnad et al.	

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /C.N/

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	119	8172848	B2	2012-05-08	Tomko et al.	
	120	8192441	B2	2012-06-05	Collazo	
	121	8197487	B2	2012-06-12	Poncet et al.	
	122	8231663	B2	2012-07-31	Kay et al.	
	123	8231623	B1	2012-07-31	Jordan	
	124	8236000	B2	2012-08-07	Ammann et al.	
	125	8246561	B1	2012-08-21	Agee et al.	
	126	D 666721	S	2012-09-04	Wright et al.	
	127	8262664	B2	2012-09-11	Justin et al.	
	128	8277459	B2	2012-10-02	Sand et al.	
	129	8282645	B2	2012-10-09	Lawrence et al.	

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /C.N/

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	130	8282644	B2	2012-10-09	Edwards	
	131	8292966	B2	2012-10-23	Morton	
	132	8303596	B2	2012-11-06	Plassky et al.	
	133	8313492	B2	2012-11-20	Wong et al.	
	134	8323289	B2	2012-12-04	Re	
	135	8337503	B2	2012-12-25	Lian	
	136	8343159	B2	2013-01-01	Bennett	
	137	8377105	B2	2013-02-19	Buescher	
	138	8409209	B2	2013-04-02	Ammann et al.	
	139	D 679395	S	2013-04-02	Wright et al.	
	140	8435246	B2	2013-05-07	Fisher et al.	

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /C.N/

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	141	8475462	B2	2013-07-02	Thomas et al.	
	142	8496662	B2	2013-07-30	Novak et al.	
	143	8523870	B2	2013-09-03	Green, II et al.	
	144	8529571	B2	2013-09-10	Horan et al.	
	145	8540777	B2	2013-09-24	Ammann et al.	
	146	8545508	B2	2013-10-01	Collazo	
	147	D 694884	S	2013-12-03	Mooradian et al.	
	148	D 695402	S	2013-12-10	Dacosta et al.	
	149	8652142	B2	2014-02-18	Geissler	
	150	8657820	B2	2014-02-25	Kubiak et al.	
	151	8672945	B2	2014-03-18	Lavallee et al.	

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	152	D 701303	S	2014-03-18	Cook	
	153	8696716	B2	2014-04-15	Kartalian et al.	
	154	8702715	B2	2014-04-22	Ammann et al.	
	155	8715363	B2	2014-05-06	Ratron et al.	
	156	8728084	B2	2014-05-20	Berelsman et al.	
	157	D 705929	S	2014-05-27	Frey	
	158	8758354	B2	2014-06-24	Habegger et al.	
	159	8764763	B2	2014-07-01	Wong et al.	
	160	8764760	B2	2014-07-01	Metzger et al.	
	161	8771279	B2	2014-07-08	Philippon et al.	
	162	8777948	B2	2014-07-15	Bernsteiner	

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	163	8784457	B2	2014-07-22	Graham	
	164	8784427	B2	2014-07-22	Fallin et al.	
	165	8795286	B2	2014-08-05	Sand et al.	
	166	8801727	B2	2014-08-12	Chan et al.	
	167	8808303	B2	2014-08-19	Stemniski et al.	
	168	8828012	B2	2014-09-09	May et al.	
	169	8080045	B2	2011-12-20	Wotton, III	
	170	10779867	B2	2020-09-22	Penzimer et al.	

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Examiner Initial*	Cite No	Publication Number	Kind Code[1]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	20140249537	A1	2014-09-04	WONG et al.	

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /C.N/

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	2	20020107519	A1	2002-08-08	Dixon et al.	
	3	20020165552	A1	2002-11-07	Duffner	
	4	20020198531	A1	2002-12-26	Millard et al.	
	5	20040010259	A1	2004-01-15	Keller et al.	
	6	20040039394	A1	2004-02-26	Conti et al.	
	7	20040097946	A1	2004-05-20	Dietzel et al.	
	8	20040138669	A1	2004-07-15	Horn	
	9	20050004676	A1	2005-01-06	Schon et al.	
	10	20050059978	A1	2005-03-17	Sherry et al.	
	11	20050070909	A1	2005-03-31	Egger et al.	
	12	20050075641	A1	2005-04-07	Singhatat et al.	

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /C.N/

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	13	20050101961	A1	2005-05-12	Huebner et al.	
	14	20050149042	A1	2005-07-07	Metzger	
	15	20050228389	A1	2005-10-13	Stiernborg	
	16	20050251147	A1	2005-11-10	Novak	
	17	20050273112	A1	2005-12-08	McNamara	
	18	20060129163	A1	2006-06-15	McGuire	
	19	20060206044	A1	2006-09-14	Simon	
	20	20060217733	A1	2006-09-28	Plassky et al.	
	21	20060229621	A1	2006-10-12	Cadmus	
	22	20060241608	A1	2006-10-26	Myerson et al.	
	23	20060241607	A1	2006-10-26	Myerson et al.	

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /C.N/

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	24	20060264961	A1	2006-11-23	Murray-Brown	
	25	20070010818	A1	2007-01-11	Stone et al.	
	26	20070123857	A1	2007-05-31	Deffenbaugh et al.	
	27	20070233138	A1	2007-10-04	Figueroa et al.	
	28	20070265634	A1	2007-11-15	WEINSTEIN	
	29	20070276383	A1	2007-11-29	Rayhack	
	30	20080009863	A1	2008-01-10	Bond et al.	
	31	20080015603	A1	2008-01-17	Collazo	
	32	20080039850	A1	2008-02-14	Rowley et al.	
	33	20080091197	A1	2008-04-17	Coughlin	
	34	20080140081	A1	2008-06-12	Heavener et al.	

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /C.N/

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	35	20080147073	A1	2008-06-19	Ammann et al.	
	36	20140257509	A1	2014-09-11	Dacosta et al.	
	37	20080195215	A1	2008-08-14	Morton	
	38	20080208252	A1	2008-08-28	Holmes	
	39	20080262500	A1	2008-10-23	Collazo	
	40	20080269908	A1	2008-10-30	Warburton	
	41	20080288004	A1	2008-11-20	Schendel	
	42	20090036931	A1	2009-02-05	Pech et al.	
	43	20090036893	A1	2009-02-05	Kartalian et al.	
	44	20090054899	A1	2009-02-26	Ammann et al.	
	45	20090093849	A1	2009-04-09	Grabowski	

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /C.N/

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	46	20090105767	A1	2009-04-23	Reiley	
	47	20090118733	A1	2009-05-07	Orsak et al.	
	48	20090198279	A1	2009-08-06	Zhang et al.	
	49	20090198244	A1	2009-08-06	Leibel	
	50	20090222047	A1	2009-09-03	Graham	
	51	20090254126	A1	2009-10-08	Orbay et al.	
	52	20090254092	A1	2009-10-08	ALBIOL LLORACH	
	53	20090287309	A1	2009-11-19	Walch et al.	
	54	20100069910	A1	2010-03-18	Hasselman	
	55	20100121334	A1	2010-05-13	Couture et al.	
	56	20100130981	A1	2010-05-27	Richards	

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /C.N/

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	57	20100152782	A1	2010-06-17	Stone et al.	
	58	20100168799	A1	2010-07-01	Schumer	
	59	20100185245	A1	2010-07-22	Paul et al.	
	60	20100249779	A1	2010-09-30	Hotchkiss et al.	
	61	20100256687	A1	2010-10-07	Neufeld et al.	
	62	20100318088	A1	2010-12-16	Warne et al.	
	63	20100324556	A1	2010-12-23	Tyber et al.	
	64	20110009865	A1	2011-01-13	Orfaly	
	65	20110093084	A1	2011-04-21	Morton	
	66	20110118739	A1	2011-05-19	Tyber et al.	
	67	20110178524	A1	2011-07-21	Lawrence et al.	

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /C.N/

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	68	20110245835	A1	2011-10-06	Dodds et al.	
	69	20110288550	A1	2011-11-24	Orbay et al.	
	70	20110301648	A1	2011-12-08	Lofthouse et al.	
	71	20120016426	A1	2012-01-19	Robinson	
	72	20120065689	A1	2012-03-15	Prasad et al.	
	73	20120078258	A1	2012-03-29	Lo et al.	
	74	20120123484	A1	2012-05-17	Lietz et al.	
	75	20120123420	A1	2012-05-17	Honiball	
	76	20120130383	A1	2012-05-24	Budoff	
	77	20120130382	A1	2012-05-24	Iannotti et al.	
	78	20120130376	A1	2012-05-24	Loring et al.	

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /C.N/

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	79	20120185056	A1	2012-07-19	Warburton	
	80	20120184961	A1	2012-07-19	Johannaber	
	81	20120191199	A1	2012-07-26	Raemisch	
	82	20120239045	A1	2012-09-20	Li	
	83	20120253350	A1	2012-10-04	ANTHONY et al.	
	84	20120265301	A1	2012-10-18	Demers et al.	
	85	20120277745	A1	2012-11-01	LIZEE	
	86	20140257308	A1	2014-09-11	Johannaber	
	87	20130012949	A1	2013-01-10	Fallin et al.	
	88	20130035694	A1	2013-02-07	Grimm et al.	
	89	20130085499	A1	2013-04-04	Lian	

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /C.N/

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	
	Filing Date	
	First Named Inventor	Paul Dayton
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	Attorney Docket Number	71212.4.1.USC7

	90	20140277214	A1	2014-09-18	Helenbolt et al.	
	91	20130131821	A1	2013-05-23	Cachia	
	92	20130150903	A1	2013-06-13	Vincent	
	93	20130158556	A1	2013-06-20	Jones et al.	
	94	20130165938	A1	2013-06-27	Chow et al.	
	95	20130165936	A1	2013-06-27	MYERS	
	96	20130172942	A1	2013-07-04	LEWIS et al.	
	97	20130184714	A1	2013-07-18	Kaneyama et al.	
	98	20130190766	A1	2013-07-25	Harris et al.	
	99	20130190765	A1	2013-07-25	Harris et al.	
	100	20130204259	A1	2013-08-08	Zajac	

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /C.N/

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	
	Filing Date	
	First Named Inventor	Paul Dayton
	Art Unit	
	Examiner Name	
	Attorney Docket Number	71212.4.1.USC7

	101	20130226252	A1	2013-08-29	Mayer	
	102	20130226248	A1	2013-08-29	Hatch et al.	
	103	20130231668	A1	2013-09-05	Olsen et al.	
	104	20130237989	A1	2013-09-12	Bonutti	
	105	20130237987	A1	2013-09-12	Graham	
	106	20130267956	A1	2013-10-10	Terrill et al.	
	107	20130310836	A1	2013-11-21	Raub et al.	
	108	20130325076	A1	2013-12-05	Palmer et al.	
	109	20130325019	A1	2013-12-05	Thomas et al.	
	110	20130331845	A1	2013-12-12	HORAN et al.	
	111	20130338785	A1	2013-12-19	Wong	

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /C.N/

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	
	Filing Date	
	First Named Inventor	Paul Dayton
	Art Unit	
	Examiner Name	
	Attorney Docket Number	71212.4.1.USC7

	112	20140005672	A1	2014-01-02	Edwards et al.	
	113	20140025127	A1	2014-01-23	Richter	
	114	20140039561	A1	2014-02-06	Weiner et al.	
	115	20140039501	A1	2014-02-06	Schickendantz et al.	
	116	20140046387	A1	2014-02-13	Waizenegger	
	117	20140074101	A1	2014-03-13	Collazo	
	118	20140074099	A1	2014-03-13	Vigneron et al.	
	119	20140094924	A1	2014-04-03	Hacking et al.	
	120	20140094861	A1	2014-04-03	Fallin	
	121	20140135775	A1	2014-05-15	MAXSON et al.	
	122	20140163563	A1	2014-06-12	Reynolds et al.	

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /C.N/

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	
	Filing Date	
	First Named Inventor	Paul Dayton
	Art Unit	
	Examiner Name	
	Attorney Docket Number	71212.4.1.USC7

	123	20140171953	A1	2014-06-19	GONZALVEZ et al.	
	124	20140180342	A1	2014-06-26	Lowery et al.	
	125	20140188139	A1	2014-07-03	Fallin et al.	
	126	20140194999	A1	2014-07-10	ORBAY et al.	
	127	20140194884	A1	2014-07-10	Martin et al.	
	128	20140207144	A1	2014-07-24	LEE et al.	
	129	20130085502	A1	2013-04-04	Harrold	

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Examiner Initial*	Cite No	Foreign Document Number[3]	Country Code[2] ¡	Kind Code[4]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear	T[5]
	1	2009227957	AU	B2	2014-07-10	Boutin, et al.		☐
	2	2491824	CA	A1	2005-09-08	Grimm, et al.		☐

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	
	Filing Date	
	First Named Inventor	Paul Dayton
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	Examiner Name	
	Attorney Docket Number	71212.4.1.USC7

	3	2854997	CA	A1	2013-05-16	Leslie, et al.		☐
	4	695846	CH	A5	2006-09-29	Roland, et al.		☐
	5	2930668	CN	Y	2007-08-08	Lin		☐
	6	201558162	CN	U	2010-08-25	Xiaojian, et al.		☐
	7	201572172	CN	U	2010-09-08	Xiaojian, et al.		☐
	8	201586060	CN	U	2010-09-22	Xiaojian, et al.		☐
	9	201912210	CN	U	2011-08-03	Xing, et al.		☐
	10	101237835	CN	B	2012-11-07	ARTHREX INC.		☐
	11	202801773	CN	U	2013-03-20	Tang, et al.		☐
	12	103462675	CN	A	2013-12-25	Tang, et al.		☐
	13	103505276	CN	A	2014-01-15	Wang, et al.		☐

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /C.N/

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
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	Filing Date	
	First Named Inventor	Paul Dayton
	Art Unit	
	Examiner Name	
	Attorney Docket Number	71212.4.1.USC7

	14	203458450	CN	U	2014-03-05	Wang, et al.		☐
	15	203576647	CN	U	2014-05-07	Huang, et al.		☐
	16	102860860	CN	B	2014-05-21	Xia, et al.		☐
	17	104490460	CN	A	2015-04-08	Xu		☐
	18	104510523	CN	A	2015-04-15	Xu		☐
	19	104523327	CN	A	2015-04-22	Ma, et al.		☐
	20	104546102	CN	A	2015-04-29	Ma, et al.		☐
	21	204379413	CN	U	2015-06-10	Xu		☐
	22	204410951	CN	U	2015-06-24	Xu		☐
	23	204428145	CN	U	2015-07-01	Xu		☐
	24	204428144	CN	U	2015-07-01	Xu		☐

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /C.N/

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	
	Filing Date	
	First Named Inventor	Paul Dayton
	Art Unit	
	Examiner Name	
	Attorney Docket Number	71212.4.1.USC7

	25	204428143	CN	U	2015-07-01	Xu		☐
	26	204446081	CN	U	2015-07-08	Ma, et al.		☐
	27	202006010241	DE	U1	2007-03-29	RHEE		☐
	28	102007053058	DE	B3	2009-04-09	NORMED MEDIZIN TECHNIK VERTRIE		☐
	29	4134243	JP	B2	2008-08-20	Nishiyama, et al.		☐
	30	685206	EP	B1	2000-09-06	Ellis		☐
	31	1508316	EP	B1	2007-05-16	DEPUY FRANCE		☐
	32	1897509	EP	B1	2009-07-08	Arnould		☐
	33	2124772	EP	A1	2009-12-02	Richards		☐
	34	2124832	EP	B1	2012-08-08	Collins, et al.		☐
	35	2632349	EP	A1	2013-09-04	Iannotti, et al.		☐

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /C.N/

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	
	Filing Date	
	First Named Inventor	Paul Dayton
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	Examiner Name	
	Attorney Docket Number	71212.4.1.USC7

	36	2665428	EP	A1	2013-11-27	Johannaber		☐
	37	2742878	EP	A1	2014-06-18	Reynolds, et al.		☐
	38	2750617	EP	A1	2014-07-09	Gaudin		☐
	39	2849684	EP	A1	2015-03-25	Neal, et al.		☐
	40	2624764	EP	B1	2015-12-30	CERAMTEC GMBH		☐
	41	2362616	FR	A1	1978-03-24	Duyck		☐
	42	2764183	FR	B1	1999-11-05	Afriat, et al.		☐
	43	2953120	FR	B1	2012-01-20	HECHARD		☐
	44	3030221	FR	A1	2016-06-24	Boniface et al.		☐
	45	2154144	GB	A	1985-09-04	De Bastiani, et al.		☐
	46	2154143	GB	A	1985-09-04	De Bastiani, et al.		☐

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /C.N/

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
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	Filing Date	
	First Named Inventor	Paul Dayton
	Art Unit	
	Examiner Name	
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	47	2334214	GB	B	2003-01-22	STANLEY		☐
	48	2006158972	JP	A	2006-06-22	DEPUY PRODUCTS INC		☐
	49	2011092405	JP	A	2011-05-12	Sato		☐
	50	2011523889	JP	A	2011-08-25	Saravuia, et al.		☐

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	1	“Accu-Cut Osteotomy Guide System,” BioPro, Brochure, October 2018, 2 pages.	☐
	2	“Acumed Osteotomiesystem Operationstechnik,” Acumed, 2014, 19 pages (including 3 pages English translation).	☐
	3	ALBANO et al., "Biomechanical Study of Transcortical or Transtrabecular Bone Fixation of Patellar Tendon Graft wih Bioabsorbable Pins in ACL Reconstruction in Sheep," Revista Brasileira de Ortopedia (Rev Bras Ortop.) Vol. 47, No. 1, 2012, pp. 43-49.	☐
	4	ALVINE et al., “Peg and Dowel Fusion of the Proximal Interphalangeal Joint,” Foot & Ankle, Vol. 1, No. 2, 1980, pp. 90–94.	☐
	5	ANDERSON et al., "Uncemented STAR Total Ankle Prostheses," The Journal of Bone and Joint Surgery, Vol. 86(1, Suppl 2), September 2004, pp. 103-111, (Abstract Only).	☐

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /C.N/

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	
	Filing Date	
	First Named Inventor	Paul Dayton
	Art Unit	
	Examiner Name	
	Attorney Docket Number	71212.4.1.USC7

	6	BEDNARZ et al., “Modified Lapidus Procedure for the Treatment of Hypermobile Hallux Valgus,” Foot & Ankle International, Vol. 21, No. 10, October 2000, pp. 816–821.	☐
	7	BLOMER, “Knieendoprothetik – Herstellerische Probleme und technologische Entwicklungen,” Orthopade, Vol. 29, 2000, pp. 688–696, including English Abstract on page 689.	☐
	8	BOUAICHA et al., “Fixation of Maximal Shift Scarf Osteotomy with Inside-Out Plating: Technique Tip,” Foot & Ankle International, Vol. 32, No. 5, May 2011, pp. 567–569.	☐
	9	CARR et al., “Correctional Osteotomy for Metatarsus Primus Varus and Hallux Valgus,” The Journal of Bone and Joint Surgery, Vol. 50-A, No. 7, October 1968, pp. 1353–1367.	☐
	10	COETZEE et al., "The Lapidus Procedure: A Prospective Cohort Outcome Study," Foot & Ankle International, Vol. 25, No. 8, August 2004, pp. 526–531.	☐
	11	DAYTON et al., “Is Our Current Paradigm for Evaluation and Management of the Bunion Deformity Flawed? A Discussion of Procedure Philosophy Relative to Anatomy,” The Journal of Foot and Ankle Surgery, Vol. 54, 2015, pp. 102-111.	☐
	12	DAYTON et al., “Observed Changes in Radiographic Measurements of the First Ray after Frontal and Transverse Plane Rotation of the Hallux: Does the Hallux Drive the Metatarsal in a Bunion Deformity?,” The Journal of Foot and Ankle Surgery, Vol. 53, 2014, pp. 584-587.	☐
	13	DAYTON et al., “Relationship Of Frontal Plane Rotation Of First Metatarsal To Proximal Articular Set Angle And Hallux Alignment In Patients Undergoing Tarsometatarsal Arthrodesis For Hallux Abducto Valgus: A Case Series And Critical Review Of The Literature,” The Journal of Foot and Ankle Surgery, Vol. 52, No. 3, May/June 2013, pp. 348-354.	☐
	14	DAYTON et al., “Quantitative Analysis of the Degree of Frontal Rotation Required to Anatomically Align the First Metatarsal Phalangeal Joint During Modified Tarsal-Metatarsal Arthrodesis Without Capsular Balancing,” The Journal of Foot and Ankle Surgery, 2015, pp. 1-6.	☐
	15	DE GEER et al., “A New Measure of Tibial Sesamoid Position in Hallux Valgus in Relation to the Coronal Rotation of the First Metatarsal in CT Scans,” Foot and Ankle International, March 26, 2015, 9 pages.	☐
	16	DiDOMENICO et al., “Correction of Frontal Plane Rotation of Sesamoid Apparatus during the Lapidus Procedure: A Novel Approach,” The Journal of Foot and Ankle Surgery, Vol. 53, 2014, pp. 248-251.	☐

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /C.N/

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	
	Filing Date	
	First Named Inventor	Paul Dayton
	Art Unit	
	Examiner Name	
	Attorney Docket Number	71212.4.1.USC7

	17	DOBBE et al. "Patient-Tailored Plate For Bone Fixation And Accurate 3D Positioning In Corrective Osteotomy," Medical and Biological Engineering and Computing, Vol. 51, No. 1-2, February 2013, pp. 19-27, (Abstract Only).	☐
	18	DOTY et al., "Hallux valgus and hypermobility of the first ray: facts and fiction," International Orthopaedics, Vol. 37, 2013, pp. 1655-1660.	☐
	19	EBI Extra Small Rail Fixator, Biomet Trauma, retrieved December 19, 2014, from the Internet: <http:// footandanklefixation.com/product/biomet-trauma-ebi-extra-small-rail-fixator>, 7 pages.	☐
	20	International Patent Application No. PCT/US2016/018484, International Search Report and Written Opinion mailed June 30, 2016, 12 pages.	☐
	21	“Futura Forefoot Implant Arthroplasty Products,” Tornier, Inc., 2008, 14 pages.	☐
	22	GALLI et al., "Enhanced Lapidus Arthrodesis: Crossed Screw Technique With Middle Cuneiform Fixation Further Reduces Sagittal Mobility," The Journal of Foot & Ankle Surgery, Vol. 54, Vol. 3, May/June 2015, published online: November 21, 2014, pp. 437-440.	☐
	23	GARTHWAIT, "Accu-Cut System Facilitates Enhanced Precision," Podiatry Today, Vol. 18, No. 6, June 2005, 6 pages.	☐
	24	GONZALEZ DEL PINO et al., "Variable Angle Locking Intercarpal Fusion System for Four-Corner Arthrodesis: Indications and Surgical Technique,” Journal of Wrist Surgery, Vol. 1, No. 1, August 2012, pp. 73-78.	☐
	25	GOTTE, “Entwicklung eines Assistenzrobotersystems für die Knieendoprothetik,” Forschungsberichte, Technische Universitat Munchen, 165, 2002, 11 pages, including partial English Translation.	☐
	26	GREGG et al., “Plantar plate repair and Weil osteotomy for metatarsophalangeal joint instability,” Foot and Ankle Surgery, Vol. 13, 2007, pp. 116–121.	☐
	27	GRONDAL et al., "A Guide Plate for Accurate Positioning of First Metatarsophalangeal Joint during Fusion," Operative Orthopädie Und Traumatologie, Vol. 16, No. 2, 2004, pp. 167-178 (Abstract Only).	☐

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /C.N/

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	
	Filing Date	
	First Named Inventor	Paul Dayton
	Art Unit	
	Examiner Name	
	Attorney Docket Number	71212.4.1.USC7

	28	"HAT-TRICK Lesser Toe Repair System," Smith & Nephew, Brochure, August 2014, 12 pages.	☐
	29	"HAT-TRICK Lesser Toe Repair System, Foot and Ankle Technique Guide, Metatarsal Shortening Osteotomy Surgical Technique," Smith & Nephew, 2014, 16 pages.	☐
	30	HETHERINGTON et al., "Evaluation of surgical experience and the use of an osteotomy guide on the apical angle of an Austin osteotomy," The Foot, Vol. 18, 2008, pp. 159–164.	☐
	31	HIRAO et al., "Computer assisted planning and custom-made surgical guide for malunited pronation deformity after first metatarsophalangeal joint arthrodesis in rheumatoid arthritis: A case report," Computer Aided Surgery, Vol. 19, Nos. 1–3, 2014, pp. 13–19.	☐
	32	"Hoffmann II Compact External Fixation System," Stryker, Brochure, Literature Number 5075-1-500, 2006, 12 pages.	☐
	33	"Hoffmann II Micro Lengthener," Stryker, Operative Technique, Literature Number 5075-2-002, 2008, 12 pages.	☐
	34	"Hoffmann Small System External Fixator Orthopedic Instruments," Stryker, retrieved December 19, 2014, from the Internet: <http://www.alibaba.com/product-detail/Stryker-Hoffmann-Small-System-External-Fixator_1438850129.html>, 3 pages.	☐
	35	MORTIER et al., "Axial Rotation of the First Metatarsal Head in a Normal Population and Hallux Valgus Patients," Orthopaedics and Traumatology: Surgery and Research, Vol. 98, 2012, pp. 677-683.	☐
	36	KIM et al., "A New Measure of Tibial Sesamoid Position in Hallux Valgus in Relation to the Coronal Rotation of the First Metatarsal in CT Scans," Foot and Ankle International, Vol. 36, No. 8, 2015, pp. 944-952.	☐
	37	"Lag Screw Target Bow," Stryker Leibinger GmbH & Co. KG, Germany 2004, 8 pages.	☐
	38	LAPIDUS, "The Author's Bunion Operation From 1931 to 1959," Clinical Orthopaedics, Vol. 16, 1960, pp. 119-135.	☐

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /C.N/

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	
	Filing Date	
	First Named Inventor	Paul Dayton
	Art Unit	
	Examiner Name	
	Attorney Docket Number	71212.4.1.USC7

	39	LIESKE et al., “Implantation einer Sprunggelenktotalendo-prothese vom Typ Salto 2,” Operative Orthopädie und Traumatologie, Vol. 26, No. 4, 2014, pp. 401–413, including English Abstract on page 403.	☐
	40	MAC (Multi Axial Correction) Fixation System, Biomet Trauma, retrieved December 19, 2014, from the Internet: <http://footandanklefixation.com/product/biomet-trauma-mac-multi-axial-correction-fixation-system>, 7 pages.	☐
	41	MAGIN, “Computernavigierter Gelenkersatz am Knie mit dem Orthopilot,” Operative Orthopädie und Traumatologie, Vol. 22, No. 1, 2010, pp. 63-80, including English Abstract on page 64.	☐
	42	MAGIN, “Die belastungsstabile Lapidus-Arthrodese bei Hallux-valgus-Deformität mittels IVP-Plattenfixateur (V-TEK-System),” Operative Orthopädie und Traumatologie, Vol. 26, No. 2, 2014, pp. 184–195, including English Abstract on page 186.	☐
	43	Michelangelo Bunion System, Surgical Technique, Instratek Incorporated, publication date unknown, 4 pages.	☐
	44	Mini Joint Distractor, Arthrex, retrieved December 19, 2014, from the Internet: <http://www.arthrex.com/foot-ankle/mini-joint-distractor/products>, 2 pages.	☐
	45	MiniRail System, Small Bone Innovations, Surgical Technique, 2010, 24 pages.	☐
	46	MIYAKE et al., “Three-Dimensional Corrective Osteotomy for Malunited Diaphyseal Forearm Fractures Using Custom-Made Surgical Guides Based on Computer Simulation,” JBJS Essential Surgical Techniques, Vol. 2, No. 4, 2012, 11 pages.	☐
	47	Modular Rail System: External Fixator, Smith & Nephew, Surgical Technique, 2013, 44 pages.	☐
	48	MONNICH et al., "A Hand Guided Robotic Planning System for Laser Osteotomy in Surgery," World Congress on Medical Physics and Biomedical Engineering Vol. 25/6: Surgery, Nimimal Invasive Interventions, Endoscopy and Image Guided Therapy, September 7-12, 2009, pages 59-62, (Abstract Only).	☐
	49	MOORE et al., "Effect Of Ankle Flexion Angle On Axial Alignment Of Total Ankle Replacement," Foot and Ankle International, Vol. 31, No. 12, December 2010, pp. 1093-1098, (Abstract Only).	☐

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /C.N/

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	
	Filing Date	
	First Named Inventor	Paul Dayton
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	Examiner Name	
	Attorney Docket Number	71212.4.1.USC7

	50	YASUDA et al., "Proximal Supination Osteotomy of the First Metatarsal for Hallux Valgus," Foot and Ankle International, Vol. 36, No. 6, June 2015, pp. 696-704.	☐

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CERTIFICATION STATEMENT

Please see 37 CFR 1.97 and 1.98 to make the appropriate selection(s):

☐ That each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(1).

OR

☐ That no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(2).

☐ See attached certification statement.

☐ The fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

☒ A certification statement is not submitted herewith.

SIGNATURE

A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

Signature	/Paul J. LaVanway, Jr./	Date (YYYY-MM-DD)	2024-03-25
Name/Print	Paul J. LaVanway, Jr.	Registration Number	64610

This collection of information is required by 37 CFR 1.97 and 1.98. 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 1 hour 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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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.

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

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

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

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

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

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Doc code: IDS
Doc description: Information Disclosure Statement (IDS) Filed

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Not for submission under 37 CFR 1.99)

Application Number	18615875
Filing Date	2024-03-25
First Named Inventor	Paul Dayton
Art Unit	3773
Examiner Name	NA
Attorney Docket Number	71212.4.1.USC7

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Examiner Initial*	Cite No	Patent Number	Kind Code[1]	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	4364381	A	1982-12-21	Sher et al.	

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Examiner Initial*	Cite No	Publication Number	Kind Code[1]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	20060036257	A1	2006-02-16	Steffensmeier	
	2	20020058944	A1	2002-05-16	Michelson	

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	18615875
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	First Named Inventor	Paul Dayton
	Art Unit	3773
	Examiner Name	NA
	Attorney Docket Number	71212.4.1.USC7

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, pages(s), volume-issue number(s), publisher, city and/or country where published.	T[5]
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Examiner Signature	/CHRISTINA NEGRELLIRODRIGUEZ/	Date Considered	02/03/2025

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[1] See Kind Codes of USPTO Patent Documents at www.USPTO.GOV or MPEP 901.04. [2] Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). [3] For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. [4] Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. [5] Applicant is to place a check mark here if English language translation is attached.

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Application Number	18615875
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Art Unit	3773
Examiner Name	NA
Attorney Docket Number	71212.4.1.USC7

CERTIFICATION STATEMENT

Please see 37 CFR 1.97(e) to make the appropriate selection(s):

☐ That each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(1).

OR

☐ That no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(2).

☐ See attached certification statement.

☒ A certification statement is not submitted herewith.

FEE

☐ The fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

COPIES

☐ An identification of an earlier application pursuant to 37 CFR 1.98 (d) (1) is attached.

SIGNATURE

A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

Signature	/Paul J. LaVanway, Jr./	Date (YYYY-MM-DD)	2024-10-08
Name/Print	Paul J. LaVanway, Jr.	Registration Number	64,610

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Doc code: IDS
Doc description: Information Disclosure Statement (IDS) Filed

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (**Not for submission under 37 CFR 1.99)**		
	Application Number	
	Filing Date	
	First Named Inventor	Paul Dayton
	Art Unit	
	Examiner Name	
	Attorney Docket Number	71212.4.1.USC7

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Examiner Initial*	Cite No	Patent Number	Kind Code[1]	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	4754746	A	1988-07-05	COX	
	2	5586564	A	1996-12-24	BARRETT et al.	
	3	7097647	B2	2006-08-29	SEGLER et al.	
	4	7153310	B2	2006-12-26	RALPH et al.	
	5	9452057	B2	2016-09-27	DACOSTA et al.	
	6	9980760	B2	2018-05-29	DACOSTA et al.	
	7	10376268	B2	2019-08-13	FALLIN et al.	
	8	11304705	B2	2022-04-19	FALLIN et al.	

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	1	20050267482	A1	2005-12-01	HYDE JR.	
	2	20120303033	A1	2012-11-29	WEINER et al.	
	3	20130150900	A1	2013-06-13	HADDAD et al.	
	4	20140350561	A1	2014-11-27	DACOSTA et al.	
	5	20160135858	A1	2016-05-19	DACOSTA et al.	
	6	20180132868	A1	2018-05-17	DACOSTA et al.	

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	1	3023068	EP	A2	2016-05-25	PARAGON 28 INC		☐
	2	756	MD	Z	2014-11-30	CIOBANU et al.		☒

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	Attorney Docket Number	71212.4.1.USC7

	3	2008537498	JP	A	2008-09-18	QUANTUM ORTHOPEDICS	English Abstract Submitted	☐
	4	H0531116	JP	A	1993-02-09	HOWMEDICA INC	English Abstract Submitted	☐
	5	103735306	CN	A	2014-04-23	DENG	English Abstract Submitted	☐

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	1	Defendant Fusion Orthopedics LLC's Invalidity Contentions, No. CV-22-00490-PHX-SRB, US District Court for the District of Arizona, August 27, 2022, 41 pages.	☐
	2	Prior Art Publications, Exhibit A of Defendant Fusion Orthopedics LLC's Invalidity Contentions, No. CV-22-00490-PHX-SRB, US District Court for the District of Arizona, August 27, 2022, 3 pages.	☐
	3	Claim Chart for Fishco, "Making the Lapidus Easy," The Podiatry Institute (April 2014), Exhibit B1 of Defendant Fusion Orthopedics LLC's Invalidity Contentions, No. CV-22-00490-PHX-SRB, US District Court for the District of Arizona, August 27, 2022, 97 pages.	☐
	4	Claim Chart for Fishco, "A Straightforward Guide to the Lapidus Bunionectomy," HMP Global (September 6, 2013), Exhibit B2 of Defendant Fusion Orthopedics LLC's Invalidity Contentions, No. CV-22-00490-PHX-SRB, US District Court for the District of Arizona, August 27, 2022, 67 pages.	☐
	5	Claim Chart for Groves, "Functional Position Joint Sectioning: Pre-Load Method for Lapidus Arthrodesis," Update 2015: Proceedings of the Annual Meeting of the Podiatry Institute, Chpt. 6, pp. 23-29 (April 2015), Exhibit B3 of Defendant Fusion Orthopedics LLC's Invalidity Contentions, No. CV-22-00490-PHX-SRB, US District Court for the District of Arizona, August 27, 2022, 151 pages.	☐
	6	Claim Chart for Mote, "First Metatarsal-Cuneiform Arthrodesis for the Treatment of First Ray Pathology: A Technical Guide," The Journal Foot & Ankle Surgery (September 1, 2009), Exhibit B5 of Defendant Fusion Orthopedics LLC's Invalidity Contentions, No. CV-22-00490-PHX-SRB, US District Court for the District of Arizona, August 27, 2022, 21 pages.	☐

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	Art Unit	
	Examiner Name	
	Attorney Docket Number	71212.4.1.USC7

	7	Claim Chart for US Pat. No. 10,376,268 to Fallin et al., entitled "Indexed Tri-Planar Osteotomy Guide and Method," issued August 13, 2019, Exhibit B6 of Defendant Fusion Orthopedics LLC's Invalidity Contentions, No. CV-22-00490-PHX-SRB, US District Court for the District of Arizona, August 27, 2022, 155 pages.	☐
	8	Claim Chart for US Pat. No. 8,282,645 to Lawrence et al., entitled "Metatarsal Bone Implant Cutting Guide," issued January 18, 2010, Exhibit B7 of Defendant Fusion Orthopedics LLC's Invalidity Contentions, No. CV-22-00490-PHX-SRB, US District Court for the District of Arizona, August 27, 2022, 76 pages.	☐
	9	Claim Chart for US Pat. No. 9,452,057 to Dacosta et al., entitled "Bone Implants and Cutting Apparatuses and Methods," issued April 8, 2011, Exhibit B8 of Defendant Fusion Orthopedics LLC's Invalidity Contentions, No. CV-22-00490-PHX-SRB, US District Court for the District of Arizona, August 27, 2022, 110 pages.	☐
	10	Obviousness Chart, Exhibit C of Defendant Fusion Orthopedics LLC's Invalidity Contentions, No. CV-22-00490-PHX-SRB, US District Court for the District of Arizona, August 27, 2022, 153 pages.	☐
	11	"Foot and Ankle Instrument Set," Smith & Nephew, 2013, 2 pages.	☐
	12	"Lapidus Pearls: Gaining Joint Exposure to Decrease Non-Union," Youtube, Retrieved online from <https://www.youtube.com/watch?v=-jqJyE7pj-Y>, dated November 2, 2009, 3 pages.	☐
	13	"Reconstructive Surgery of the Foot & Ankle," The Podiatry Institute, Update 2015, Conference Program, May 2015, 28 pages.	☐
	14	"Speed Continuous Active Compression Implant," BioMedical Enterprises, Inc., A120-029 Rev. 3, 2013, 4 pages.	☐
	15	"Visionaire: Patient Matched Cutting Blocks Surgical Procedure," Smith & Nephew, Inc., 2009, 2 pages.	☐
	16	ARTHREX, "Comprehensive Foot System," Retrieved online from <https://www.arthrex.com/resources/animation/8U3iaPvY6kO8bwFAwZF50Q/comprehensive-foot-system?referringTeam=foot_and_ankle>, dated August 27, 2013, 3 pages.	☐
	17	BARAVARIAN, "Why the Lapidus Procedure is Ideal for Bunions," Podiatry Today, Retrieved online from <https://www.hmpgloballearhmpgloballe.com/site/podipodi/article/5542>, dated May 2006, 8 pages.	☐

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	First Named Inventor	Paul Dayton
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	Attorney Docket Number	71212.4.1.USC7

	18	BAUER et al., "Offset-V Osteotomy of the First Metatarsal Shaft in Hallux Abducto Valgus," McGlamry's Comprehensive Textbook of Foot and Ankle Surgery, Fourth Edition, Vol. 1, Chapter 29, 2013, 26 pages.	☐
	19	COTTOM, "Fixation of the Lapidus Arthrodesis with a Plantar Interfragmentary Screw and Medial Low Profile Locking Plate," The Journal of Foot & Ankle Surgery, Vol. 51, 2012, pp. 517–522.	☐
	20	COUGHLIN, "Fixation of the Lapidus Arthrodesis with a Plantar Interfragmentary Screw and Medial Low Profile Locking Plate,"Orthopaedics and Traumatology, Vol. 7, 1999, pp. 133–143.	☐
	21	DAYTON et al., "Observed Changes in Radiographic Measurements of the First Ray after Frontal Plane Rotation of the First Metatarsal in a Cadaveric Foot Model," The Journal of Foot & Ankle Surgery, Vol. 53, 2014, pp. 274–278.	☐
	22	DAYTON et al., "Relationship of Frontal Plane Rotation of First Metatarsal to Proximal Articular Set Angle and Hallux Alignment in Patients Undergoing Tarsometatarsal Arthrodesis for Hallux Abducto Valgus: A Case Series and Critical Review of the Literature," The Journal of Foot & Ankle Surgery, 2013, Article in Press, March 1, 2013, 7 pages.	☐
	23	DiDOMENICO et al., "Lapidus Bunionectomy: First Metatarsal-Cuneiform Arthrodesis," McGlamry's Comprehensive Textbook of Foot and Ankle Surgery, Fourth Edition, Vol. 1, Chapter 31, 2013, 24 pages.	☐
	24	FALLIN et al., US Provisional Application Entitled INDEXED TRI-PLANAR OSTEOTOMY GUIDE AND METHOD, US Pat. App. No. 62/118,378, filed February 19, 2015, 62 pages.	☐
	25	FISHCO, "A Straightforward Guide To The Lapidus Bunionectomy,"Podiatry Today, Retrieved online from <https://www.hmpgloballearningnetwork.com/site/podiatry/blogged/straightforward-guide-lapidus-bunionectomy>, dated September 6, 2013, 5 pages.	☐
	26	FISHCO, "Making the Lapidus Easy," The Podiatry Institute, Update 2014, Chapter 14, 2014, pp. 91–93.	☐
	27	FLEMING et al., "Results of Modified Lapidus Arthrodesis Procedure Using Medial Eminence as an Interpositional Autograft," The Journal of Foot & Ankle Surgery, Vol. 50, 2011, pp. 272–275.	☐
	28	FUHRMANN, "Arthrodesis of the First Tarsometatarsal Joint for Correction of the Advanced Splayfoot Accompanied by a Hallux Valgus," Operative Orthopadie und Traumatologie, No. 2, 2005, pp. 195–210.	☐

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	29	GERARD et al., "The Modified Lapidus Procedure," Orthopedics, Vol. 31, No. 3, March 2008, 7 pages.	☐
	30	GIANNOUDIS et al., "Hallux Valgus Correction," Practical Procedures in Elective Orthopaedic Surgery, Pelvis and Lower Extremity, Chapter 38, 2012, 22 pages.	☐
	31	GREINER, "The Jargon of Pedal Movements," Foot & Ankle International, Vol. 28, No. 1, January 2007, pp. 109–125.	☐
	32	GROVES, "Functional Position Joint Sectioning: Pre-Load Method for Lapidus Arthrodesis," The Podiatry Institute, Update 2015, Chapter 6, 2015, pp. 23–29.	☐
	33	HARDY et al., "Observations on Hallux Valgus," The Journal of Bone and Joint Surgery, Vol. 33B, No. 3, August 1951, pp. 376–391.	☐
	34	HOLMES, Jr., "Correction of the Intermetatarsal Angle Component of Hallux Valgus Using Fiberwire-Attached Endo-buttons," Revista Internacional de Ciencias Podologicas, Vol. 6, No. 2, 2012, pp. 73–79.	☐
	35	Integra, "Integra Large Qwix Positioning and Fixation Screw, Surgical Technique," 2012, 16 pages.	☐
	36	KILMARTIN et al., "Combined rotation scarf and Akin osteotomies for hallux valgus: a patient focused 9 year follow up of 50 patients," Journal of Foot and Ankle Research, Vol. 3, No. 2, 2010, 12 pages.	☐
	37	LEE et al., "Technique Tip: Lateral Soft-Tissue Release for Correction of Hallux Valgus Through a Medial Incision Using A Dorsal Flap Over the First Metatarsal," Foot & Ankle International, Vol. 28, No. 8, August 2007, pp. 949–951.	☐
	38	MOTE et al., "First Metatarsal-Cuneiform Arthrodesis for the Treatment of First Ray Pathology: A Technical Guide," JFAS Techniques Guide, Vol. 48, No. 5, September/October 2009, pp. 593–601.	☐
	39	MYERSON, "Cuneiform-Metatarsal Arthrodesis," The Foot and Ankle, Chapter 9, 1997, pp. 107–117.	☐

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	Examiner Name	
	Attorney Docket Number	71212.4.1.USC7

	40	SAMMARCO, "Surgical Strategies: Mau Osteotomy for Correction of Moderate and Severe Hallux Valgus Deformity," Foot & Ankle International, Vol. 28, No. 7, July 2007, pp. 857–864.	☐
	41	SCHON et al., "Cuneiform-Metatarsal Arthrodesis for Hallux Valgus,"The Foot and Ankle, Second Edition, Chapter 8, 2002, pp. 99–117.	☐
	42	SOKOLOFF, "Lapidus Procedure," Textbook of Bunion Surgery, Chapter 15, 1981, pp. 277–287.	☐
	43	STAMATIS et al., "Mini Locking Plate as “Medial Buttress” for Oblique Osteotomy for Hallux Valgus," Foot & Ankle International, Vol. 31, No. 10, October 2010, pp. 920–922.	☐
	44	STEWART, "Use for BME Speed Nitinol Staple Fixation for the Lapidus Procedure," date unknown, 1 page.	☐
	45	WUKICH et al., "Hypermobility of the First Tarsometatarsal Joint," Foot and Ankle Clinics, Vol. 10, No. 1, March 2005, pp. 157–166.	☐
	46	DAYTON et al., "Biwinged Excision for Round Pedal Lesions," The Journal of Foot and Ankle Surgery, Vol. 35, No. 3, 1996, pp. 244-249.	☐
	47	DAYTON et al., "Medial Incision Approach to the First Metatarsophalangeal Joint," The Journal of Foot and Ankle Surgery, Vol. 40, No. 6, November/December 2001, pp. 414-417.	☐
	48	DAYTON et al., "Reduction of the Intermetatarsal Angle after First Metatarsophalangeal Joint Arthrodesis in Patients with Moderate and Severe Metatarsus Primus Adductus," The Journal of Foot and Ankle Surgery, Vol. 41, No. 5, September/October 2002, pp. 316-319.	☐
	49	DAYTON et al., "Use of the Z Osteotomy for Tailor Bunionectomy," The Journal of Foot and Ankle Surgery, Vol. 42, No. 3, May/June 2003, pp. 167-169.	☐
	50	DAYTON et al., "Early Weightbearing After First Metatarsophalangeal Joint Arthrodesis: A Retrospective Observational Case Analysis," The Journal of Foot and Ankle Surgery, Vol. 43, No. 3, May/June 2004, pp. 156-159.	☐

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /C.N/

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	
	Filing Date	
	First Named Inventor	Paul Dayton
	Art Unit	
	Examiner Name	
	Attorney Docket Number	71212.4.1.USC7

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EXAMINER SIGNATURE

Examiner Signature	/CHRISTINA NEGRELLIRODRIGUEZ/	Date Considered	02/03/2025

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

[1] See Kind Codes of USPTO Patent Documents at www.USPTO.GOV or MPEP 901.04. [2] Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). [3] For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. [4] Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. [5] Applicant is to place a check mark here if English language translation is attached.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /C.N/

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	
	Filing Date	
	First Named Inventor	Paul Dayton
	Art Unit	
	Examiner Name	
	Attorney Docket Number	71212.4.1.USC7

CERTIFICATION STATEMENT

Please see 37 CFR 1.97 and 1.98 to make the appropriate selection(s):

☐ That each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(1).

OR

☐ That no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(2).

☐ See attached certification statement.

☐ The fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

☒ A certification statement is not submitted herewith.

SIGNATURE

A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

Signature	/Paul J. LaVanway, Jr./	Date (YYYY-MM-DD)	2024-03-25
Name/Print	Paul J. LaVanway, Jr.	Registration Number	64610

This collection of information is required by 37 CFR 1.97 and 1.98. 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 1 hour 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 the Freedom of Information Act requires disclosure of these record s.

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

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

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

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

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

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

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

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

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /C.N/

Last Name: Dayton
First Name: Paul

Examiner: NEGRELLIRODRIGUEZ, CHRISTINA

APP. #	Patent #	Status	Filing Date	Inventor Name	Title
08/198,406	[]	161	02/22/1994	DAYTON, PAUL	MINIATURIZED ACOUSTIC HEARING AID MODULE FOR EMPLACEMENT COMPLETELY WITHIN AN EAR CANAL
08/277,679	[]	161	07/20/1994	DAYTON, PAUL	ACOUSTIC MODULE FOR A HEARING AID
18/147,437	12081940	150	12/28/2022	DAYTON, PAUL	ACOUSTIC RECEIVER AND METHOD OF MAKING SAME
60/060,790	[]	159	10/03/1997	DAYTON, PAUL	ULTRASOUND BUBBLE RECOGNITION IMAGING
60/071,389	[]	159	01/15/1998	DAYTON, PAUL	ULTRASOUND BUBBLE RECOGNITION IMAGING
60/075,147	[]	159	02/19/1998	DAYTON, PAUL	USE OF BJERKNES FORCES TO MANIQULATE CONTRAST AGENTS
60/075,168	[]	159	02/19/1998	DAYTON, PAUL	"HIGH RESOLUTION OPTICAL SYSTEM FOR MAPPING ULTRASONIC BEAM PROFILES"
60/094,717	[]	159	07/30/1998	DAYTON, PAUL	USE OF ULTRASOUND TO IMPROVE CONTRAST-ASSISTED MAGNETIC RESONANCE IMAGING THROUGH RADIATION FORCE AND MICROBUBBLE DESTRUCTION
60/113,199	[]	159	12/22/1998	DAYTON, PAUL	DRUG DELIVERY INCORPORATING LEUKOCYTES WITH ENDOCYTOSED MICROBUBBLES AND DRUGS
16/608,406	[]	61	10/25/2019	DAYTON, Paul Alexander	ADAPTIVE MULTIFOCUS BEAMFORMING ULTRASOUND METHODS AND SYSTEMS FOR IMPROVED PENETRATION AND TARGET SENSITIVITY AT HIGH FRAME-RATES
09/485,412	6371917	250	08/31/2000	Dayton, Paul	Ultrasound bubble recognition imaging
10/928,648	7358226	150	08/26/2004	Dayton, Paul	ULTRASONIC CONCENTRATION OF DRUG DELIVERY CAPSULES
11/356,843	[]	161	02/17/2006	Dayton, Paul	Ultrasonic concentration of carrier particles
14/403,767	[]	161	11/25/2014	Dayton, Paul	CATHETER DEVICE IMPLEMENTING HIGH FREQUENCY, CONTRAST IMAGING ULTRASOUND TRANSDUCER, AND ASSOCIATED METHOD
14/457,023	10322178	150	08/11/2014	Dayton, Paul	SYSTEMS AND METHODS FOR TARGETED DRUG DELIVERY
14/799,981	[]	161	07/15/2015	Dayton, Paul	BONE POSITIONING AND CUTTING SYSTEM AND METHOD
14/917,469	[]	161	03/08/2016	Dayton, Paul	METHODS AND COMPOSITIONS FOR TUMOR VASCULATURE IMAGING AND TARGETED THERAPY
14/981,335	9622805	150	12/28/2015	Dayton, Paul	BONE POSITIONING AND PREPARING GUIDE SYSTEMS AND METHODS
14/990,368	10245088	150	01/07/2016	Dayton, Paul	BONE PLATING SYSTEM AND METHOD
14/990,574	9687250	150	01/07/2016	Dayton, Paul	BONE CUTTING GUIDE SYSTEMS AND METHODS
15/047,288	10849631	150	02/18/2016	Dayton, Paul	PIVOTABLE BONE CUTTING GUIDE USEFUL FOR BONE REALIGNMENT AND COMPRESSION TECHNIQUES
15/047,343	10245086	150	02/18/2016	Dayton, Paul	BONE PLATING KIT FOR FOOT AND ANKLE APPLICATIONS
15/148,774	10653467	150	05/06/2016	Dayton, Paul	INTRA-OSSEOUS PLATE SYSTEM AND METHOD
15/210,426	9936994	150	07/14/2016	Dayton, Paul	BONE POSITIONING GUIDE
15/210,497	10849663	150	07/14/2016	Dayton, Paul	BONE CUTTING GUIDE SYSTEMS AND METHODS
15/236,464	10342590	150	08/14/2016	Dayton, Paul	TARSAL-METATARSAL JOINT PROCEDURE UTILIZING FULCRUM
15/267,531	10575862	150	09/16/2016	Dayton, Paul	JOINT SPACER SYSTEMS AND METHODS

Last Name: Dayton
First Name: Paul

Examiner: NEGRELLIRODRIGUEZ, CHRISTINA

APP. #	Patent #	Status	Filing Date	Inventor Name	Title
15/452,236	10045807	150	03/07/2017	Dayton, Paul	BONE POSITIONING AND PREPARING GUIDE SYSTEMS AND METHODS
15/603,056	10603046	150	05/23/2017	Dayton, Paul	BONE CUTTING GUIDE SYSTEMS AND METHODS
15/894,702	10555757	150	02/12/2018	Dayton, Paul	BONE POSITIONING AND CUTTING SYSTEM AND METHOD
15/910,428	10335220	150	03/02/2018	Dayton, Paul	BONE POSITIONING GUIDE
16/031,855	10849670	150	07/10/2018	Dayton, Paul	BONE POSITIONING AND PREPARING GUIDE SYSTEMS AND METHODS
16/278,255	11154340	150	02/18/2019	Dayton, Paul	BONE PLATING SYSTEM AND METHOD
16/278,264	11344347	150	02/18/2019	Dayton, Paul	BONE PLATING KIT FOR FOOT AND ANKLE APPLICATIONS
16/422,557	11185359	150	05/24/2019	Dayton, Paul	BONE POSITIONING GUIDE
16/448,357	11413081	150	06/21/2019	Dayton, Paul	TARSAL-METATARSAL JOINT PROCEDURE UTILIZING FULCRUM
16/467,640	[]	161	06/07/2019	Dayton, Paul	DIAPHRAGM FOR A RECEIVER
16/484,908	[]	161	08/09/2019	Dayton, Paul	DIAPHRAGM USING SILOXANE MATERIAL FOR AN ACOUSTIC RECEIVER, COMBINATIONS THEREOF AND METHODS THEREFOR
16/505,363	11278337	150	07/08/2019	Dayton, Paul	TARSAL-METATARSAL JOINT PROCEDURE UTILIZING FULCRUM
16/593,153	10561426	150	10/04/2019	Dayton, Paul	BONE CUTTING GUIDE SYSTEMS AND METHODS
16/630,874	11582558	150	01/14/2020	Dayton, Paul	ACOUSTIC RECEIVER AND METHOD OF MAKING SAME
16/730,424	10945764	150	12/30/2019	Dayton, Paul	BONE POSITIONING AND CUTTING SYSTEM AND METHOD
16/731,612	10874446	150	12/31/2019	Dayton, Paul	BONE POSITIONING GUIDE
16/750,829	11648019	150	01/23/2020	Dayton, Paul	JOINT SPACER SYSTEMS AND METHODS
16/767,188	11607197	150	05/27/2020	Dayton, Paul	INTER-ELEMENT MATRIX IN ULTRASOUND CONTRAST AGENTS POPULATIONS TO MEASURE TRANSPORT PARAMETERS
16/792,880	10888335	150	02/17/2020	Dayton, Paul	BONE CUTTING GUIDE SYSTEMS AND METHODS
16/877,159	11426219	150	05/18/2020	Dayton, Paul	INTRA-OSSEOUS PLATE SYSTEM AND METHOD
16/997,864	11116558	150	08/19/2020	Dayton, Paul	BONE POSITIONING GUIDE
16/998,155	11039873	150	08/20/2020	Dayton, Paul	BONE POSITIONING AND PREPARING GUIDE SYSTEMS AND METHODS
17/106,306	11963703	150	11/30/2020	Dayton, Paul	BONE CUTTING GUIDE SYSTEMS AND METHODS
17/106,314	11844533	150	11/30/2020	Dayton, Paul	PIVOTABLE BONE CUTTING GUIDE USEFUL FOR BONE REALIGNMENT AND COMPRESSION TECHNIQUES
17/118,597	11786257	150	12/10/2020	Dayton, Paul	BONE CUTTING GUIDE SYSTEMS AND METHODS
17/163,120	11622797	150	01/29/2021	Dayton, Paul	METATARSOPHALANGEAL JOINT PREPARATION AND METATARSAL REALIGNMENT FOR FUSION
17/201,008	11147590	150	03/15/2021	Dayton, Paul	BONE POSITIONING AND CUTTING SYSTEM AND METHOD
17/325,167	12004789	150	05/19/2021	Dayton, Paul	DEVICES AND TECHNIQUES FOR TREATING METATARSUS ADDUCTUS
17/353,431	11213333	150	06/21/2021	Dayton, Paul	BONE POSITIONING AND PREPARING GUIDE SYSTEMS AND METHODS
17/503,730	11937849	150	10/18/2021	Dayton, Paul	BONE POSITIONING AND CUTTING SYSTEM AND METHOD

Last Name: Dayton
First Name: Paul

Examiner: NEGRELLIRODRIGUEZ, CHRISTINA

APP. #	Patent #	Status	Filing Date	Inventor Name	Title
17/510,107	12059185	150	10/25/2021	Dayton, Paul	BONE PLATING SYSTEM AND METHOD
17/537,183	11602386	150	11/29/2021	Dayton, Paul	BONE POSITIONING GUIDE
17/567,879	11602387	150	01/03/2022	Dayton, Paul	BONE POSITIONING AND PREPARING GUIDE SYSTEMS AND METHODS
17/577,202	12161371	150	01/17/2022	Dayton, Paul	CONTOURED BONE PLATE WITH LOCKING SCREW FOR BONE COMPRESSION, PARTICULARLY ACROSS A TARSOMETATARSAL JOINT
17/640,073	[]	93	03/03/2022	Dayton, Paul	Targeted Multifocal Lens for Biological Sample Processing and Related Methods
17/674,447	[]	93	02/17/2022	Dayton, Paul	SYSTEM AND TECHNIQUE FOR METATARSAL REALIGNMENT WITH REDUCED INCISION LENGTH
17/828,002	[]	71	05/30/2022	Dayton, Paul	BONE PLATING KIT FOR FOOT AND ANKLE APPLICATIONS
17/836,801	11497528	150	06/09/2022	Dayton, Paul	BONE POSITIONING AND CUTTING SYSTEM AND METHOD
17/836,809	11523845	150	06/09/2022	Dayton, Paul	BONE POSITIONING AND CUTTING SYSTEM AND METHOD
17/887,755	[]	71	08/15/2022	Dayton, Paul	DEVICES AND TECHNIQUES FOR TREATING METATARSUS ADDUCTUS
17/888,272	11690659	150	08/15/2022	Dayton, Paul	TARSAL-METATARSAL JOINT PROCEDURE UTILIZING FULCRUM
17/897,321	11969193	150	08/29/2022	Dayton, Paul	INTRA-OSSEOUS PLATE SYSTEM AND METHOD
17/946,797	[]	41	09/16/2022	Dayton, Paul	MULTIPLE THICKNESS SAW BLADE FOR PRECISION ORTHOPEDIC CUTS
17/948,847	[]	41	09/20/2022	Dayton, Paul	TAPERED LOBULAR SURGICAL DRIVER AND IMPLANT SYSTEM AND TECHNIQUE FOR DISENGAGING DRIVER DURING SURGERY
18/057,762	11771443	150	11/21/2022	Dayton, Paul	JOINT SPACER SYSTEMS AND METHODS
18/064,916	11771467	150	12/12/2022	Dayton, Paul	BONE POSITIONING AND CUTTING SYSTEM AND METHOD
18/173,605	[]	41	02/23/2023	Dayton, Paul	ANATOMICALLY-FITTED TARSOMETATARSAL BONE PLATE
18/173,634	[]	30	02/23/2023	Dayton, Paul	FIRST METATARSAL LATERAL RELEASE INSTRUMENT AND TECHNIQUE
18/173,649	[]	30	02/23/2023	Dayton, Paul	MULTI-SIDED CUTTING INSTRUMENT FOR MOBILIZING SMALL BONES IN THE FOOT
18/174,596	[]	30	02/24/2023	Dayton, Paul	DEVICES AND TECHNIQUES FOR TREATING LESSER METATARSALS OF THE FOOT
18/182,995	11950819	150	03/13/2023	Dayton, Paul	BONE POSITIONING GUIDE
18/183,013	11911085	150	03/13/2023	Dayton, Paul	BONE POSITIONING AND PREPARING GUIDE SYSTEMS AND METHODS
18/297,712	[]	71	04/10/2023	Dayton, Paul	METATARSOPHALANGEAL JOINT PREPARATION AND METATARSAL REALIGNMENT FOR FUSION
18/323,138	[]	30	05/24/2023	Dayton, Paul	TARSAL-METATARSAL JOINT PROCEDURE UTILIZING FULCRUM
18/437,056	[]	30	02/08/2024	Dayton, Paul	SMALL BONE FIXATION SYSTEMS AND TECHNIQUES WITH GUIDE SLEEVE
18/437,073	[]	30	02/08/2024	Dayton, Paul	CONTOUR GUIDE FOR SMALL BONE SURFACE MODIFICATION
18/437,089	[]	30	02/08/2024	Dayton, Paul	PINNING AND DRILLING INSTRUMENTS FOR SMALL BONE IMPLANT PLACEMENT
18/467,509	[]	30	09/14/2023	Dayton, Paul	MINIMALLY INVASIVE METATARSAL REALIGNMENT
18/479,708	[]	71	10/02/2023	Dayton, Paul	JOINT SPACER SYSTEMS AND METHODS

Last Name: Dayton
First Name: Paul

Examiner: NEGRELLIRODRIGUEZ, CHRISTINA

APP. #	Patent #	Status	Filing Date	Inventor Name	Title
18/544,406	[]	41	12/18/2023	Dayton, Paul	PIVOTABLE BONE CUTTING GUIDE USEFUL FOR BONE REALIGNMENT AND COMPRESSION TECHNIQUES
18/587,921	[]	93	02/26/2024	Dayton, Paul	BONE POSITIONING AND PREPARING GUIDE SYSTEMS AND METHODS
18/615,875	[]	30	03/25/2024	Dayton, Paul	BONE POSITIONING AND CUTTING SYSTEM AND METHOD
18/627,609	12102368	150	04/05/2024	Dayton, Paul	BONE POSITIONING GUIDE
18/642,470	[]	30	04/22/2024	Dayton, Paul	BONE CUTTING GUIDE SYSTEMS AND METHODS
18/645,205	[]	93	04/24/2024	Dayton, Paul	BONE CUTTING GUIDE SYSTEMS AND METHODS
18/645,596	[]	93	04/25/2024	Dayton, Paul	TARSAL-METATARSAL JOINT PROCEDURE UTILIZING FULCRUM
18/649,799	[]	41	04/29/2024	Dayton, Paul	INTRA-OSSEOUS PLATE SYSTEM AND METHOD
18/689,948	[]	30	03/07/2024	Dayton, Paul	TARGETED NANODROPLET AND MICROBUBBLE COMPOSITIONS AND METHODS FOR ENRICHMENT, LYSIS, AND EXTRACTION OF MICROBIAL CELLS
18/773,547	[]	30	07/15/2024	Dayton, Paul	DISTAL OSTEOTOMY METATARSAL CORRECTION SYSTEMS AND TECHNIQUES
18/801,659	[]	30	08/12/2024	Dayton, Paul	BONE PLATING SYSTEM AND METHOD
18/890,338	[]	30	09/19/2024	Dayton, Paul	BONE POSITIONING PLATFORM
18/901,388	[]	30	09/30/2024	Dayton, Paul	BONE POSITIONING GUIDE
18/974,748	[]	19	12/09/2024	Dayton, Paul	CONTOURED BONE PLATE WITH LOCKING SCREW FOR BONE COMPRESSION, PARTICULARLY ACROSS A TARSOMETATARSAL JOINT
19/030,046	[]	19	[]	Dayton, Paul	TARSAL-METATARSAL JOINT PROCEDURE UTILIZING FULCRUM
19/030,114	[]	19	[]	Dayton, Paul	BONE POSITIONING AND PREPARING GUIDE SYSTEMS AND METHODS
19/030,150	[]	19	[]	Dayton, Paul	BONE CUTTING GUIDE SYSTEMS AND METHODS
19/031,828	[]	19	[]	Dayton, Paul	BONE POSITIONING AND CUTTING SYSTEM AND METHOD
29/827,982	[]	71	02/23/2022	Dayton, Paul	MULTI-SIDED CUTTING INSTRUMENT FOR MOBILIZING SMALL BONES IN THE FOOT
29/827,985	[]	93	02/23/2022	Dayton, Paul	METATARSAL LATERAL RELEASE INSTRUMENT
29/912,200	[]	30	09/14/2023	Dayton, Paul	ORTHOPEDIC CORNER CHISEL
60/498,405	[]	159	08/27/2003	Dayton, Paul	Ultrasonic concentration of drug delivery capsules
60/839,356	[]	159	08/21/2006	Dayton, Paul	Liposomes on microbubbles, a new promising acoustically active drug delivery vehicle
60/977,627	[]	159	10/04/2007	Dayton, Paul	Methods And Agents For Imaging And Drug Delivery
61/654,335	[]	159	06/01/2012	Dayton, Paul	CATHETER DEVICE IMPLEMENTING HIGH FREQUENCY, CONTRAST IMAGING ULTRASOUND TRANSDUCER, AND ASSOCIATED METHOD
61/877,526	[]	159	09/13/2013	Dayton, Paul	METHODS AND COMPOSITIONS FOR TUMOR VASCULATURE IMAGING AND TARGETED THERAPY
62/024,546	[]	159	07/15/2014	Dayton, Paul	BONE POSITIONING AND CUTTING SYSTEM AND METHOD
62/100,641	[]	159	01/07/2015	Dayton, Paul	BONE CUTTING GUIDE SYSTEMS AND METHODS

Last Name: Dayton
First Name: Paul

Examiner: NEGRELLIRODRIGUEZ, CHRISTINA

APP. #	Patent #	Status	Filing Date	Inventor Name	Title
62/103,736	[]	159	01/15/2015	Dayton, Paul	Receiver With Piece Parts In A Single Assembly
62/117,747	[]	159	02/18/2015	Dayton, Paul	BONE CUTTING GUIDE SYSTEMS AND METHODS
62/136,801	[]	159	03/23/2015	Dayton, Paul	Cantilever Diaphragm Apparatus
62/145,964	[]	159	04/10/2015	Dayton, Paul	CURVED BONE PLATE
62/157,561	[]	159	05/06/2015	Dayton, Paul	INTRA-OSSEOUS PLATE SYSTEM AND METHOD
62/192,290	[]	159	07/14/2015	Dayton, Paul	BONE CUTTING GUIDE SYSTEMS AND METHODS
62/192,319	[]	159	07/14/2015	Dayton, Paul	BONE POSITIONING SYSTEMS AND METHODS
62/205,338	[]	159	08/14/2015	Dayton, Paul	BONE POSITIONING AND PREPARING GUIDE SYSTEMS AND METHODS
62/293,189	[]	159	02/09/2016	Dayton, Paul	TARSAL-METATARSAL JOINT PROCEDURE UTILIZING FULCRUM
62/366,219	[]	159	07/25/2016	Dayton, Paul	JOINT SPACER SYSTEMS AND METHODS
62/431,579	[]	159	12/08/2016	Dayton, Paul	DIAPHRAGM FOR A RECEIVER
62/456,919	[]	159	02/09/2017	Dayton, Paul	DIAPHRAGM FOR AN ACOUSTIC RECEIVER, COMBINATIONS THEREOF AND METHODS THEREFOR
62/532,887	[]	159	07/14/2017	Dayton, Paul	ACOUSTIC RECEIVER AND METHOD OF MAKING SAME
62/591,174	[]	159	11/27/2017	Dayton, Paul	INTER-ELEMENT MATRIX IN ULTRASOUND CONTRAST AGENTS POPULATIONS TO MEASURE TRANSPORT PARAMETERS
62/897,054	[]	159	09/06/2019	Dayton, Paul	Targeted Multifocal Lens for Biological Sample Processing Applications
62/968,244	[]	159	01/31/2020	Dayton, Paul	METATARSOPHALANGEAL JOINT PREPARATION AND METATARSAL REALIGNMENT FOR FUSION
63/026,186	[]	159	05/18/2020	Dayton, Paul	Targeted Multifocal Lens for Biological Sample Processing Applications
63/027,340	[]	159	05/19/2020	Dayton, Paul	DEVICES AND TECHNIQUES FOR TREATING METATARSUS ADDUCTUS
63/126,207	[]	159	12/16/2020	Dayton, Paul	DEVICES AND TECHNIQUES FOR TREATING METATARSUS ADDUCTUS
63/138,726	[]	159	01/18/2021	Dayton, Paul	CONTOURED BONE PLATE WITH LOCKING SCREW FOR BONE COMPRESSION, PARTICULARLY ACROSS A TARSOMETATARSAL JOINT
63/151,041	[]	159	02/18/2021	Dayton, Paul	SYSTEM AND TECHNIQUE FOR METATARSAL REALIGNMENT WITH REDUCED INCISION LENGTH
63/241,214	[]	159	09/07/2021	Dayton, Paul	Methods and design of nanodroplets and microbubbles with molecular probes for targeted and enhanced lysis and extraction of microbial samples
63/245,186	[]	159	09/16/2021	Dayton, Paul	MULTIPLE THICKNESS SAW BLADE FOR PRECISION ORTHOPEDIC CUTS
63/246,772	[]	159	09/21/2021	Dayton, Paul	TAPERED LOBULAR SURGICAL DRIVER AND IMPLANT SYSTEM AND TECHNIQUE FOR DISENGAGING DRIVER DURING SURGERY
63/313,124	[]	159	02/23/2022	Dayton, Paul	MULTI-SIDED CUTTING INSTRUMENT FOR MOBILIZING SMALL BONES IN THE FOOT
63/313,131	[]	159	02/23/2022	Dayton, Paul	FIRST METATARSAL LATERAL RELEASE INSTRUMENT AND TECHNIQUE
63/313,162	[]	159	02/23/2022	Dayton, Paul	ANATOMICALLY-FITTED TARSOMETATARSAL BONE PLATE

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63/313,274	[]	160	02/24/2022	Dayton, Paul	DEVICES AND TECHNIQUES FOR TREATING LESSER METATARSALS OF THE FOOT
63/313,726	[]	159	02/24/2022	Dayton, Paul	DEVICES AND TECHNIQUES FOR TREATING LESSER METATARSALS OF THE FOOT
63/406,486	[]	159	09/14/2022	Dayton, Paul	MINIMALLY INVASIVE METATARSAL REALIGNMENT
63/513,728	[]	159	07/14/2023	Dayton, Paul	OSTEOTOMY SYSTEMS AND TECHNIQUES FOR TREATING METATARSAL MISALIGNMENT
63/519,036	[]	159	08/11/2023	Dayton, Paul	SMALL BONE FIXATION SYSTEMS AND TECHNIQUES WITH GUIDE SLEEVE
63/583,743	[]	159	09/19/2023	Dayton, Paul	BONE POSITIONING PLATFORM
63/583,746	[]	159	09/19/2023	Dayton, Paul	SMALL BONE FIXATION SYSTEMS AND TECHNIQUES WITH GUIDE SLEEVE
63/625,739	[]	159	01/26/2024	Dayton, Paul	OSTEOTOMY SYSTEMS AND TECHNIQUES FOR TREATING METATARSAL MISALIGNMENT
12/247,782	[]	161	10/08/2008	Dayton, Paul A.	MULTIPLE-LAYER MICROBUBBLE LIPOSPHERE DRUG DELIVERY VEHICLE AND SYSTEM
13/393,500	9532769	150	05/14/2012	Dayton, Paul A.	SYSTEMS, METHODS, AND COMPUTER READABLE MEDIA FOR HIGH FREQUENCY CONTRAST IMAGING AND IMAGE-GUIDED THERAPEUTICS
13/876,165	9427410	150	08/30/2013	Dayton, Paul A.	FORMULATION OF ACOUSTICALLY ACTIVATABLE PARTICLES HAVING LOW VAPORIZATION ENERGY AND METHODS FOR USING SAME
15/247,840	11123302	150	08/25/2016	Dayton, Paul A.	FORMULATION OF ACOUSTICALLY ACTIVATABLE PARTICLES HAVING LOW VAPORIZATION ENERGY AND METHODS FOR USING SAME
17/479,395	[]	30	09/20/2021	Dayton, Paul A.	FORMULATION OF ACOUSTICALLY ACTIVATABLE PARTICLES HAVING LOW VAPORIZATION ENERGY AND METHODS FOR USING SAME
60/721,319	[]	159	09/27/2005	Dayton, Paul A.	Method for concentrating drug delivery vehicles or imaging agents with ultrasound
60/978,193	[]	159	10/08/2007	Dayton, Paul A.	METHOD OF MANUFACTURING DUAL-LAYER MICROBUBBLE LIPOSPHERES IN MICROFLUIDIC DEVICES
61/240,166	[]	159	09/04/2009	Dayton, Paul A.	SYSTEMS, METHODS, AND COMPUTER READABLE MEDIA FOR HIGH FREQUENCY CONTRAST IMAGING AND IMAGE-GUIDED THERAPEUTICS
61/391,569	[]	159	10/08/2010	Dayton, Paul A.	METHODS FOR ACOUSTICALLY ACTIVATABLE PARTICLES
61/505,915	[]	159	07/08/2011	Dayton, Paul A.	FORMULATION AND ULTRASOUND STUDIES OF A NEW PRO-BUBBLE (PHASE-SHIFT AGENT) FOR ACTIVATION WITH LOW ACOUSTIC INTENSITIES
61/709,488	[]	159	10/04/2012	Dayton, Paul A.	METHODS AND SYSTEMS FOR USING ENCAPSULATED MICROBUBBLES TO PROCESS BIOLOGICAL SAMPLES
14/432,747	9982290	150	03/31/2015	Dayton, Paul Alexander	METHODS AND SYSTEMS FOR USING ENCAPSULATED MICROBUBBLES TO PROCESS BIOLOGICAL SAMPLES
15/035,211	[]	161	05/06/2016	Dayton, Paul Alexander	ACOUSTIC DETECTION OF ACTIVATED PHASE-CHANGE CONTRAST AGENT
15/396,719	[]	160	01/02/2017	Dayton, Paul Alexander	SYSTEMS, METHODS, AND COMPUTER READABLE MEDIA FOR HIGH FREQUENCY CONTRAST IMAGING AND IMAGE-GUIDED THERAPEUTICS

Last Name: Dayton
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15/545,947	11304676	150	07/24/2017	Dayton, Paul Alexander	APPARATUSES, SYSTEMS, AND METHODS FOR PRECLINICAL ULTRASOUND IMAGING OF SUBJECTS
15/880,481	10493038	150	01/25/2018	Dayton, Paul Alexander	FORMULATION OF ACOUSTICALLY ACTIVATABLE PARTICLES HAVING LOW VAPORIZATION ENERGY AND METHODS FOR USING SAME
15/990,171	11485994	150	05/25/2018	Dayton, Paul Alexander	METHODS AND SYSTEMS FOR USING ENCAPSULATED MICROBUBBLES TO PROCESS BIOLOGICAL SAMPLES
16/327,726	[]	41	02/22/2019	Dayton, Paul Alexander	SYSTEM AND METHOD FOR NONINVASIVELY ASSESSING BIOENGINEERED ORGANS
16/521,183	[]	161	07/24/2019	Dayton, Paul Alexander	METHODS, SYSTEMS, AND COMPUTER READABLE MEDIA FOR TRANSLATING SAMPLE PLATE OVER FIXED ULTRASOUND TRANSDUCER
17/016,304	[]	61	09/09/2020	Dayton, Paul Alexander	METHODS AND SYSTEMS FOR USING PHASE CHANGE NANODROPLETS TO ENHANCE SONOTHROMBOLYSIS
17/054,383	[]	61	11/10/2020	Dayton, Paul Alexander	METHOD TO EXTRACT CHROMATIN FROM FORMALIN FIXED, PARAFFIN EMBEDDED (FFPE) TISSUE
17/606,986	12150813	150	10/27/2021	Dayton, Paul Alexander	METHODS, SYSTEMS, AND COMPUTER READABLE MEDIA FOR GENERATING SUPER-RESOLUTION IMAGES OF MICROVASCULATURE USING ULTRASOUND
17/922,522	[]	30	10/31/2022	Dayton, Paul Alexander	METHODS AND SYSTEMS FOR ENHANCING DELIVERY OF THERAPEUTIC AGENTS TO BIOFILMS USING LOW BOILING POINT PHASE CHANGE CONTRAST AGENTS
17/961,538	[]	30	10/06/2022	Dayton, Paul Alexander	METHODS AND SYSTEMS FOR USING ENCAPSULATED MICROBUBBLES TO PROCESS BIOLOGICAL SAMPLES
18/715,639	[]	19	05/31/2024	Dayton, Paul Alexander	SEQUENCING AND STRATEGIES FOR ENHANCING INTRAVASCULAR THROMBUS DISRUPTION WITH PHASE-CHANGE CAVITATION ENHANCING AGENTS
19/100,114	[]	19	[]	Dayton, Paul Alexander	INTRAVASCULAR DUAL FREQUENCY SONOTHROMBOLYSIS MEDIATED WITH MICROBUBBLES/NANODROPLETS
61/902,150	[]	159	11/08/2013	Dayton, Paul Alexander	METHODS, SYSTEMS, AND COMPUTER READABLE MEDIA FOR ACOUSTIC DETECTION OF ACTIVATED ULTRASOUND PHASE-CHANGE CONTRAST AGENTS
62/107,321	[]	159	01/23/2015	Dayton, Paul Alexander	APPARATUSES, SYSTEMS, AND METHODS FOR PRECLINICAL ULTRASOUND IMAGING OF SUBJECTS
62/383,068	[]	159	09/02/2016	Dayton, Paul Alexander	SYSTEM AND METHOD FOR NONINVASIVELY ASSESSING BIOENGINEERED ORGANS
62/503,880	[]	159	05/09/2017	Dayton, Paul Alexander	ADAPTIVE MULTIFOCUS BEAMFORMING ULTRASOUND METHODS AND SYSTEMS FOR IMPROVED PENETRATION AND TARGET SENSITIVITY AT HIGH FRAME-RATES
62/669,715	[]	159	05/10/2018	Dayton, Paul Alexander	METHOD TO EXTRACT CHROMATIN FROM FORMALIN FIXED, PARAFFIN EMBEDDED (FFPE) TISSUE
62/702,694	[]	159	07/24/2018	Dayton, Paul Alexander	METHODS, SYSTEMS, AND COMPUTER READABLE MEDIA FOR TRANSLATING SAMPLE PLATE OVER FIXED ULTRASOUND TRANSDUCER

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62/846,133	[]	159	05/10/2019	Dayton, Paul Alexander	METHOD FOR GENERATING IMAGES OF MICROVASCULATURE USING ULTRASOUND
62/897,759	[]	159	09/09/2019	Dayton, Paul Alexander	THE USE OF PHASE CHANGE NANODROPLETS TO ENHANCE SONOTHROMBOLYSIS
63/032,905	[]	159	06/01/2020	Dayton, Paul Alexander	METHODS AND SYSTEMS FOR ENHANCING DELIVERY OF THERAPEUTIC AGENTS TO BIOFILMS USING LOW BOILING POINT PHASE CHANGE CONTRAST AGENTS
63/284,902	[]	159	12/01/2021	Dayton, Paul Alexander	SEQUENCING AND STRATEGIES FOR ENHANCING INTRAVASCULAR THROMBUS DISRUPTION WITH PHASE-CHANGE CAVITATION ENHANCING AGENTS
63/395,835	[]	159	08/07/2022	Dayton, Paul Alexander	INTRAVASCULAR DUAL FREQUENCY SONOTHROMBOLYSIS MEDIATED WITH MICROBUBBLES/NANODROPLETS
63/531,151	[]	159	08/07/2023	Dayton, Paul Alexander	ULTRASOUND CONTRAST AGENT FOR BINDING WITH OR ADHERING TO RESPIRATORY MUCUS AND METHODS FOR USING SAME
63/650,474	[]	20	05/22/2024	Dayton, Paul Alexander	ULTRASOUND CONTRAST AGENT FOR BINDING WITH OR ADHERING TO RESPIRATORY MUCUS AND METHODS FOR USING SAME
17/145,503	11399235	150	01/11/2021	Dayton, Paul C	BALANCED ARMITURE RECEIVER
14/729,657	[]	161	06/03/2015	Dayton, Paul C.	Torsion Diaphragm Apparatus
61/982,127	[]	159	04/21/2014	Dayton, Paul C.	Receiver Apparatus With Ringed Stack
61/982,160	[]	159	04/21/2014	Dayton, Paul C.	Receiver Apparatus With A One-Piece Yoke
61/982,167	[]	159	04/21/2014	Dayton, Paul C.	Receiver Apparatus With Strap-Like Yoke
61/994,511	[]	159	05/16/2014	Dayton, Paul C.	Housing For Receiver Apparatus
61/994,520	[]	159	05/16/2014	Dayton, Paul C.	Biocompatible Receiver Apparatus
61/994,532	[]	159	05/16/2014	Dayton, Paul C.	Housing With Return Path
61/994,547	[]	159	05/16/2014	Dayton, Paul C.	Housing With Registration
61/994,561	[]	159	05/16/2014	Dayton, Paul C.	Housing With Shielding
62/014,415	[]	159	06/19/2014	Dayton, Paul C.	Torsion Diaphragm Apparatus
62/029,651	[]	159	07/28/2014	Dayton, Paul C.	Acoustic Apparatus With Integral Stiffener
62/029,658	[]	159	07/28/2014	Dayton, Paul C.	Acoustic Apparatus With Additional Separate Stiffener
62/029,667	[]	159	07/28/2014	Dayton, Paul C.	Acoustic Apparatus With Pivot Line
62/029,674	[]	159	07/28/2014	Dayton, Paul C.	Acoustic Apparatus With Compliant Membrane
62/029,717	[]	159	07/28/2014	Dayton, Paul C.	Acoustic Apparatus With Vents
62/029,727	[]	159	07/28/2014	Dayton, Paul C.	Unvented Acoustic Assembly
62/029,733	[]	159	07/28/2014	Dayton, Paul C.	Acoustic Apparatus With Drive Rod
62/047,093	[]	159	09/08/2014	Dayton, Paul C.	Coil Connector Utilizing Skeining Connection
62/047,094	[]	159	09/08/2014	Dayton, Paul C.	Coil Connector Using Pig-Tail Connection
62/047,098	[]	159	09/08/2014	Dayton, Paul C.	Coil Connection Using Circuit Board
62/047,099	[]	159	09/08/2014	Dayton, Paul C.	Radially Layered Coils In A Receiver
62/047,101	[]	159	09/08/2014	Dayton, Paul C.	End-To-End Coils In A Receiver
62/047,104	[]	159	09/08/2014	Dayton, Paul C.	Receiver With A Motor Having An Anti-Corrosive And Structurally Sound Coil
62/047,112	[]	159	09/08/2014	Dayton, Paul C.	Receiver With Self-Bonding Coil
62/047,121	[]	159	09/08/2014	Dayton, Paul C.	Receiver With Potted Coil

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62/047,129	[]	159	09/08/2014	Dayton, Paul C.	Receiver With Coil Having Skirts For Increased Surface Area
62/047,140	[]	159	09/08/2014	Dayton, Paul C.	Receiver With Coil Having Stand-Off Ribs
62/047,149	[]	159	09/08/2014	Dayton, Paul C.	Receiver With Dog-House Tube Structure
62/047,157	[]	159	09/08/2014	Dayton, Paul C.	Bifilar Coil In Receiver
62/047,165	[]	159	09/08/2014	Dayton, Paul C.	Receiver With Tube Having Screen

Doc code: IDS
Doc description: Information Disclosure Statement (IDS) Filed

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Application Number	
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First Named Inventor	Paul Dayton
Art Unit	
Examiner Name	
Attorney Docket Number	71212.4.1.USC7

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	1	20090112212	A1	2009-04-30	MURRAY et al.	
	2	20110264149	A1	2011-10-27	PAPPALARDO et al.	
	3	20170056031	A1	2017-03-02	AWTREY et al.	

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
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	Attorney Docket Number	71212.4.1.USC7

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	1	DAYTON et al., "Dorsal Suspension Stitch: An Alternative Stabilization After Flexor Tenotomy for Flexible Hammer Digit Syndrome," The Journal of Foot and Ankle Surgery, Vol. 48, No. 5, September/October 2009, pp. 602-605.	☐
	2	DAYTON et al., "The Extended Knee Hemilithotomy Position for Gastrocnemius Recession," The Journal of Foot and Ankle Surgery, Vol. 49, 2010, pp. 214-216.	☐
	3	WIENKE et al., "Bone Stimulation For Nonunions: What the Evidence Reveals," Podiatry Today, Vol. 24, No. 9, September 2011, pp. 52-57.	☐
	4	DAYTON et al., "Hallux Varus as Complication of Foot Compartment Syndrome," The Journal of Foot and Ankle Surgery, Vol. 50, 2011, pp. 504-506.	☐
	5	DAYTON et al., "Measurement of Mid-Calcaneal Length on Plain Radiographs: Reliability of a New Method," Foot and Ankle Specialist, Vol. 4, No. 5, October 2011, pp. 280-283.	☐
	6	DAYTON et al., "A User-Friendly Method of Pin Site Management for External Fixators," Foot and Ankle Specialist, September 16, 2011, 4 pages.	☐
	7	DAYTON et al., "Effectiveness of a Locking Plate in Preserving Midcalcaneal Length and Positional Outcome after Evans Calcaneal Osteotomy: A Retrospective Pilot Study," The Journal of Foot and Ankle Surgery, Vol. 52, 2013, pp. 710-713.	☐
	8	DAYTON et al., "Does Postoperative Showering or Bathing of a Surgical Site Increase the Incidence of Infection? A Systematic Review of the Literature," The Journal of Foot and Ankle Surgery, Vol. 52, 2013, pp. 612-614.	☐
	9	DAYTON et al., "Technique for Minimally Invasive Reduction of Calcaneal Fractures Using Small Bilateral External Fixation," The Journal of Foot and Ankle Surgery, Article in Press, 2014, 7 pages.	☐

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /C.N/

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
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	Filing Date	
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	10	DAYTON et al., "Clarification of the Anatomic Definition of the Bunion Deformity," The Journal of Foot and Ankle Surgery, Vol. 53, 2014, pp. 160-163.	☐
	11	DAYTON et al., "Observed Changes in Radiographic Measurements of the First Ray after Frontal Plane Rotation of the First Metatarsal in a Cadaveric Foot Model," The Journal of Foot and Ankle Surgery, Article in Press, 2014, 5 pages.	☐
	12	DAYTON et al., "Observed Changes in First Metatarsal and Medial Cuneiform Positions after First Metatarsophalangeal Joint Arthrodesis," The Journal of Foot and Ankle Surgery, Vol. 53, 2014, pp. 32-35.	☐
	13	DAYTON et al., "Reduction of the Intermetatarsal Angle after First Metatarsal Phalangeal Joint Arthrodesis: A Systematic Review," The Journal of Foot and Ankle Surgery, Article in Press, 2014, 4 pages.	☐
	14	FEILMEIER et al., "Reduction of Intermetatarsal Angle after First Metatarsophalangeal Joint Arthrodesis in Patients with Hallux Valgus," The Journal of Foot and Ankle Surgery, Vol. 53, 2014, pp. 29-31.	☐
	15	DAYTON et al., "Principles of Management of Growth Plate Fractures in the Foot and Ankle," Clinics in Podiatric Medicine and Surgery, Pediatric Foot Deformities, October 2013, 17 pages.	☐
	16	DAYTON et al., "Observed Changes in Radiographic Measurements of the First Ray after Frontal and Transverse Plane Rotation of the Hallux: Does the Hallux Drive the Metatarsal in a Bunion Deformity?," The Journal of Foot and Ankle Surgery, Article in Press, 2014, 4 pages.	☐
	17	RODRIGUEZ et al., "Ilizarov method of fixation for the management of pilon and distal tibial fractures in the compromised diabetic patient: A technique guide," The Foot and Ankle Journal Online, Vol. 7, No. 2, 2014, 9 pages.	☐
	18	FEILMEIER et al., "Incidence of Surgical Site Infection in the Foot and Ankle with Early Exposure and Showering of Surgical Sites: A Prospective Observation," The Journal of Foot and Ankle Surgery, Vol. 53, 2014, pp. 173-175.	☐
	19	CATANESE et al., "Measuring Sesamoid Position in Hallux Valgus: When Is the Sesamoid Axial View Necessary," Foot and Ankle Specialist, 2014, 3 pages.	☐
	20	DAYTON et al., "Comparison of Complications for Internal and External Fixation for Charcot Reconstruction: A Systematic Review," The Journal of Foot and Ankle Surgery, Article in Press, 2015, 4 pages.	☐

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /C.N/

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	Filing Date	
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	Examiner Name	
	Attorney Docket Number	71212.4.1.USC7

	21	DAYTON et al., “A new triplanar paradigm for bunion management,” Lower Extremity Review, April 2015, 9 pages.	☐
	22	DAYTON et al., "American College of Foot and Ankle Surgeons' Clinical Consensus Statement: Perioperative Prophylactic Antibiotic Use in Clean Elective Foot Surgery," The Journal of Foot and Ankle Surgery, Article in Press, 2015, 7 pages.	☐
	23	DAYTON et al., "Complications of Metatarsal Suture Techniques for Bunion Correction: A Systematic Review of the Literature," The Journal of Foot and Ankle Surgery, Article in Press, 2015, 3 pages.	☐
	24	DeCARBO et al., "The Weil Osteotomy: A Refresher," Techniques in Foot and Ankle Surgery, Vol. 13, No. 4, December 2014, pp. 191-198.	☐
	25	DeCARBO et al., "Resurfacing Interpositional Arthroplasty for Degenerative Joint Diseas of the First Metatarsalphalangeal Joint," Podiatry Management, January 2013, pp. 137-142.	☐
	26	DeCARBO et al., "Locking Plates: Do They Prevent Complications?," Podiatry Today, April 2014, 7 pages.	☐
	27	EASLEY et al., "Current Concepts Review: Hallux Valgus Part II: Operative Treatment," Foot and Ankle International, Vol. 28, No. 6, June 2007, pp. 748-758.	☐
	28	KIM et lal., "A Multicenter Retrospective Review of Outcomes for Arthrodesis, Hemi-Metallic Joint Implant, and Resectional Arthroplasty in the Surgical Treatment of End-Stage Hallux Rigidus," The Journal of Foot and Ankle Surgery, Vol. 51, 2012, pp. 50-56.	☐
	29	EASLEY et al., "Current Concepts Review: Hallux Valgus Part I: Pathomechanics, Clinical Assessment, and Nonoperative Management," Foot and Ankle International, Vol. 28, No. 5, May 2007, pp. 654-659.	☐
	30	SANDHU et al., "Digital Arthrodesis With a One-Piece Memory Nitinol Intramedullary Fixation Device: A Retrospective Review," Foot and Ankle Specialist, Vol. 6, No. 5, October 2013, pp. 364-366.	☐
	31	WEBER et al., "Use of the First Ray Splay Test to Assess Transverse Plane Instability Before First Metatarsocuneiform Fusion," The Journal of Foot and Ankle Surgery, Vol. 45, No. 4, July/August 2006, pp. 278-282.	☐

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /C.N/

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	First Named Inventor	Paul Dayton
	Art Unit	
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	Attorney Docket Number	71212.4.1.USC7

	32	SMITH et al., "Opening Wedge Osteotomies for Correction of Hallux Valgus: A Review of Wedge Plate Fixation," Foot and Ankle Specialist, Vol. 2, No. 6, December 2009, pp. 277-282.	☐
	33	EASLEY et al., "What is the Best Treatment for Hallux Valgus?," Evidence-Based Orthopaedics - The Best Answers to Clinical Questions, Chapter 73, 2009, pp. 479-491.	☐
	34	SHURNAS et al., "Proximal Metatarsal Opening Wedge Osteotomy," Operative Techniques in Foot and Ankle Surgery, Section I, Chapter 13, 2011, pp. 73-78.	☐
	35	COETZEE et al., "Revision Hallux Valgus Correction," Operative Techniques in Foot and Ankle Surgery, Section I, Chapter 15, 2011, pp. 84-96.	☐
	36	LE et al., "Tarsometatarsal Arthrodesis," Operative Techniques in Foot and Ankle Surgery, Section II, Chapter 40, 2011, pp. 281-285.	☐
	37	COLLAN et al., "The biomechanics of the first metatarsal bone in hallux valgus: A preliminary study utilizing a weight bearing extremity CT," Foot and Ankle Surgery, Vol. 19, 2013, pp. 155-161.	☐
	38	EUSTACE et al., "Hallux valgus, first metatarsal pronation and collapse of the medial longitudinal arch - a radiological correlation," Skeletal Radiology, Vol. 23, 1994, pp. 191-194.	☐
	39	MIZUNO et al., "Detorsion Osteotomy of the First Metatarsal Bone in Hallux Valgus," Japanese Orthopaedic Association, Tokyo, 1956; 30:813-819.	☐
	40	OKUDA et al., "The Shape of the Lateral Edge of the First Metatarsal Head as a Risk Factor for Recurrence of Hallux Valgus," The Journal of Bone and Joint Surgery, Vol. 89, 2007, pp. 2163-2172.	☐
	41	OKUDA et al., "Proximal Metatarsal Osteotomy for Hallux Valgus: Comparison of Outcome for Moderate and Severe Deformities," Foot and Ankle International," Vol. 29, No. 7, July 2008, pp. 664-670.	☐
	42	D'AMICO et al., "Motion of the First Ray: Clarification Through Investigation," Journal of the American Podiatry Association, Vol. 69, No. 1, January 1979, pp. 17-23.	☐

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	Attorney Docket Number	71212.4.1.USC7

	43	GROVES, "Operative Report," St. Tammany Parish Hospital, Date of Procedure, March 26, 2014, 2 pages.	☐
	44	Claim Chart for Groves Public Use (March 26, 2014), Exhibit B4 of Defendant Fusion Orthopedics LLC's Invalidity Contentions, No. CV-22-00490-PHX-SRB, US District Court for the District of Arizona, August 27, 2022, 161 pages.	☐

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Examiner Signature	/CHRISTINA NEGRELLIRODRIGUEZ/	Date Considered	02/03/2025

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[1] See Kind Codes of USPTO Patent Documents at www.USPTO.GOV or MPEP 901.04. [2] Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). [3] For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. [4] Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. [5] Applicant is to place a check mark here if English language translation is attached.

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
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	Filing Date	
	First Named Inventor	Paul Dayton
	Art Unit	
	Examiner Name	
	Attorney Docket Number	71212.4.1.USC7

CERTIFICATION STATEMENT

Please see 37 CFR 1.97 and 1.98 to make the appropriate selection(s):

☐ That each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(1).

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☐ That no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(2).

☐ See attached certification statement.

☐ The fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

☒ A certification statement is not submitted herewith.

SIGNATURE

A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

Signature	/Paul J. LaVanway, Jr./	Date (YYYY-MM-DD)	2024-03-25
Name/Print	Paul J. LaVanway, Jr.	Registration Number	64610

This collection of information is required by 37 CFR 1.97 and 1.98. 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 1 hour 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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*all references in circled areas below have been considered

PE2E SEARCH - Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	British Equivalents	Time Stamp
L1	70	(Treace Medical Concepts).as.	(US-PGPUB; USPAT)	ADJ	ON	ON	2025/02/03 01:37 PM
L2	172	(Paul NEAR2 Dayton).in.	(US-PGPUB; USPAT)	ADJ	ON	ON	2025/02/03 01:38 PM
L3	159	(Barry NEar2 Bays).in.	(US-PGPUB; USPAT)	ADJ	ON	ON	2025/02/03 01:38 PM
L4	1	"4988349".pn.	(US-PGPUB; USPAT)	ADJ	ON	ON	2025/02/03 01:59 PM
L5	33	"20090118733"	(US-PGPUB; USPAT)	ADJ	ON	ON	2025/02/03 02:57 PM
L6	1	"4988349".pn.	(US-PGPUB; USPAT)	ADJ	ON	ON	2025/02/03 04:02 PM
L7	1539	A61B17/66.cpc.	(US-PGPUB; USPAT)	ADJ	ON	ON	2025/02/04 10:00 AM
L8	162	A61B17/64.cpc.	(US-PGPUB; USPAT)	ADJ	ON	ON	2025/02/04 10:00 AM
L9	392	A61B17/6416.cpc.	(US-PGPUB; USPAT)	ADJ	ON	ON	2025/02/04 10:00 AM
L11	568	A61B17/6425.cpc.	(US-PGPUB; USPAT)	ADJ	ON	ON	2025/02/04 10:00 AM
L12	270	A61B17/6458.cpc.	(US-PGPUB; USPAT)	ADJ	ON	ON	2025/02/04 10:00 AM
L13	941	A61B17/7052.cpc.	(US-PGPUB; USPAT)	ADJ	ON	ON	2025/02/04 10:01 AM

PE2E SEARCH - Search History (Interference)

There are no Interference searches to show.

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Doc description: Information Disclosure Statement (IDS) Filed

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	First Named Inventor	Paul Dayton
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	Examiner Name	
	Attorney Docket Number	71212.4.1.USC7

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Examiner Initial*	Cite No	Patent Number	Kind Code[1]	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	10470779	B2	2019-11-12	Fallin et al.	
	2	8858602	B2	2014-10-14	Weiner et al.	
	3	8882778	B2	2014-11-11	Ranft	
	4	8882816	B2	2014-11-11	Kartalian et al.	
	5	8900247	B2	2014-12-02	Tseng et al.	
	6	8906026	B2	2014-12-09	Ammann et al.	
	7	D 720456	S	2014-12-30	Dacosta et al.	
	8	8945132	B2	2015-02-03	Plassy et al.	

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	9	8998903	B2	2015-04-07	Price et al.	
	10	8998904	B2	2015-04-07	Zeetser et al.	
	11	9023052	B2	2015-05-05	Lietz et al.	
	12	9044250	B2	2015-06-02	Olsen et al.	
	13	9060822	B2	2015-06-23	Lewis et al.	
	14	9089376	B2	2015-07-28	Medoff et al.	
	15	9107715	B2	2015-08-18	Blitz et al.	
	16	9113920	B2	2015-08-25	Ammann et al.	
	17	D 740424	S	2015-10-06	Dacosta et al.	
	18	D 765844	S	2016-09-06	DaCosta	
	19	D 766434	S	2016-09-13	DaCosta	

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	20	D 766437	S	2016-09-13	DaCosta	
	21	D 766438	S	2016-09-13	DaCosta	
	22	D 766439	S	2016-09-13	DaCosta	
	23	9522023	B2	2016-11-08	Haddad et al.	
	24	9750538	B2	2017-09-05	Soffiatti et al.	
	25	9785747	B2	2017-10-10	Geebelen	
	26	10028750	B2	2018-07-24	Rose	
	27	10064631	B2	2018-09-04	Dacosta et al.	
	28	10159499	B2	2018-12-25	Dacosta et al.	
	29	10292713	B2	2019-05-21	Fallin et al.	
	30	8888785	B2	2014-11-18	AMMANN et al.	

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	31	9101421	B2	2015-08-11	BLACKLIDGE	
	32	10327829	B2	2019-06-25	DACOSTA et al.	
	33	5417694	A	1995-05-23	MARIK et al.	

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	1	20170042598	A1	2017-02-16	Santrock et al.	
	2	20170042599	A1	2017-02-16	Bays et al.	
	3	20170079669	A1	2017-03-23	Bays et al.	
	4	20170143511	A1	2017-05-25	Cachia	
	5	20140276815	A1	2014-09-18	Riccione	
	6	20140276853	A1	2014-09-18	Long et al.	

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	7	20140277176	A1	2014-09-18	Buchanan et al.	
	8	20140288562	A1	2014-09-25	Von Zabern et al.	
	9	20140296995	A1	2014-10-02	Reiley et al.	
	10	20140303621	A1	2014-10-09	Gerold et al.	
	11	20140336658	A1	2014-11-13	Luna et al.	
	12	20140343555	A1	2014-11-20	Russi et al.	
	13	20150032168	A1	2015-01-29	Orsak et al.	
	14	20170164989	A1	2017-06-15	WEINER et al.	
	15	20150045839	A1	2015-02-12	DACOSTA et al.	
	16	20150051650	A1	2015-02-19	VERSTREKEN et al.	
	17	20150057667	A1	2015-02-26	Ammann et al.	

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	18	20150066094	A1	2015-03-05	Prandi et al.	
	19	20150112446	A1	2015-04-23	Melamed et al.	
	20	20150119944	A1	2015-04-30	Geldwert	
	21	20150142064	A1	2015-05-21	Perez et al.	
	22	20150150608	A1	2015-06-04	Sammarco	
	23	20150182273	A1	2015-07-02	Stemniski et al.	
	24	20150223851	A1	2015-08-13	Hill et al.	
	25	20150245858	A1	2015-09-03	Weiner et al.	
	26	20150045801	A1	2015-02-12	AXELSON JR et al.	
	27	20160022315	A1	2016-01-28	SOFFIATTI et al.	
	28	20160151165	A1	2016-06-02	Fallin et al.	

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	29	20160175089	A1	2016-06-23	Fallin et al.	
	30	20160192950	A1	2016-07-07	Dayton et al.	
	31	20160199076	A1	2016-07-14	Fallin et al.	
	32	20160213384	A1	2016-07-28	Fallin et al.	
	33	20160235414	A1	2016-08-18	Hatch et al.	
	34	20160242791	A1	2016-08-25	Fallin et al.	
	35	20160256204	A1	2016-09-08	PATEL et al.	
	36	20160324532	A1	2016-11-10	MONTOYA et al.	
	37	20160354127	A1	2016-12-08	Lundquist et al.	
	38	20020099381	A1	2002-07-25	MARONEY	
	39	20080172054	A1	2008-07-17	CLAYPOOL et al.	

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	40	20180344334	A1	2018-12-06	KIM et al.	
	41	20120330135	A1	2012-12-27	MILLAHN et al.	
	42	20130096563	A1	2013-04-18	MEADE et al.	

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Examiner Initial*	Cite No	Foreign Document Number[3]	Country Code[2] i	Kind Code[4]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear	T[5]
	1	2014511207	JP	A	2014-05-15	Webber		☐
	2	2014521384	JP	A	2014-08-28	Iannotti, et al.		☐
	3	100904142	KR	B1	2009-06-15	Warburton, et al.		☐
	4	2098036	RU	C1	1997-12-10	Skvortsov, et al.		☐
	5	2195892	RU	C2	2003-01-10	Kotel, et al.		☐
	6	2320287	RU	C1	2008-03-27	Ezhov		☐

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	7	2321369	RU	C1	2008-04-10	Valiakhmetov, et al.		☐
	8	2321366	RU	C2	2008-04-10	Kotel, et al.		☐
	9	2346663	RU	C2	2009-02-20	Barinov, et al.		☐
	10	2412662	RU	C1	2011-02-27	Zyrjanov, et al.		☐
	11	1333328	SU	A2	1987-08-30	Nadgertsev, et al.		☐
	12	0166022	WO	A1	2001-09-13	Pinczewski et al.		☐
	13	03075775	WO	A1	2003-09-18	KUPA PRAEZ SMASCHINEN GES M B		☐
	14	2004089227	WO	A2	2004-10-21	KUHN		☐
	15	2008051064	WO	A1	2008-05-02	Jose		☐
	16	2009029798	WO	A1	2009-03-05	ACUMED LLC		☐
	17	2009032101	WO	A2	2009-03-12	Simon		☐

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	18	2011037885	WO	A1	2011-03-31	Sand, et al.		☐
	19	2012029008	WO	A1	2012-03-08	Herzog et al.		☐
	20	2013090392	WO	A1	2013-06-20	Sammarco		☐
	21	2013134387	WO	A1	2013-09-12	Elghazaly		☐
	22	2013169475	WO	A1	2013-11-14	Neal, et al.		☐
	23	2014022055	WO	A1	2014-02-06	O'Connell, et al.		☐
	24	2014020561	WO	A1	2014-02-06	Honiball		☐
	25	2014035991	WO	A1	2014-03-06	Lang		☐
	26	2014085882	WO	A1	2014-06-12	Angeli		☐
	27	2014152535	WO	A1	2014-09-25	Mcginley, et al.		☐
	28	2014152219	WO	A2	2014-09-25	Dacosta, et al.		☐

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	29	2014147099	WO	A1	2014-09-25	Claes, et al.		☐
	30	2014177783	WO	A1	2014-11-06	Leemrijse, et al.		☐
	31	2014200017	WO	A1	2014-12-18	Tanji		☐
	32	2015094409	WO	A1	2015-06-25	PARAGON 28, INC.		☐
	33	2015105880	WO	A1	2015-07-16	Montoya, et al.		☐
	34	2015127515	WO	A2	2015-09-03	Verstreken, et al.		☐
	35	2016134160	WO	A1	2016-08-25	TREACE MEDICAL CONCEPTS INC		☐
	36	200903719	IN	P1	2009-06-08	Hasselman		☐
	37	200904479	IN	P2	2010-05-21	Auger, et al.		☐
	38	140/DELNP/2012	IN	P1	2013-02-01	Johnson, et al.		☐
	39	2004/KOLNP/2013	IN	P2	2013-11-01	Stemniski, et al.		☐

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	40	4162380	JP	B2	2008-10-08	Michael, et al.		☐
	41	4796943	JP	B2	2011-10-19	Yoshimura, et al.		☐
	42	5466647	JP	B2	2014-04-09	Fox		☐
	43	5628875	JP	B2	2014-11-19	Matsugaritei, et al.		☐
	44	S635739	JP	A	1988-01-11	KYOCERA CORP	English Machine Translation Submitted	☐
	45	2004174265	JP	A	2004-06-24	ZIMMER TECH INC	English Abstract Submitted	☐

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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, pages(s), volume-issue number(s), publisher, city and/or country where published.	T[5]
	1	NAGY et al., "The AO Ulnar Shortening Osteotomy System Indications and Surgical Technique," Journal of Wrist Surgery, Vol. 3, No. 2, 2014, pp. 91–97.	☐
	2	NexFix from Nexa Orthopedics, MetaFix I from Merete Medical, Inc. and The BioPro Lower Extremities from BioPro, found in Foot & Ankle International Journal, Vol. 28, No. 1, January 2007, 4 pages.	☐
	3	ODENBRING et al., "A guide instrument for high tibial osteotomy," Acta Orthopaedica Scandinavica, Vol. 60, No. 4, 1989, pp. 449–451.	☐

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	4	OKUDA et al., "Postoperative Incomplete Reduction of the Sesamoids as a Risk Factor for Recurrence of Hallux Valgus," The Journal of Bone and Joint Surgery, Vol. 91-A, No. 1, July 2009, pp. 1637-1645.	☐
	5	OSHER et al., "Accurate Determination of Relative Metatarsal Protrusion with a Small Intermetatarsal Angle: A Novel Simplified Method," The Journal of Foot & Ankle Surgery, Vol. 53, No. 5, September/October 2014, published online: June 3, 2014, pp. 548-556.	☐
	6	OTSUKI et al., "Developing a novel custom cutting guide for curved per-acetabular osteotomy," International Orthopaedics (SICOT), Vol. 37, 2013, pp. 1033–1038.	☐
	7	PATEL et al., "Modified Lapidus Arthrodesis: Rate of Nonunion in 227 Cases," The Journal of Foot & Ankle Surgery, Vol. 43, No. 1, January/February 2004, pp. 37-42.	☐
	8	"Patient to Patient Precision, Accu-Cut, Osteotomy Guide System," BioPro, Foot & Ankle International Journal, Vol. 23, No. 8, August 2002, 2 pages.	☐
	9	PETERS et al., "Flexor Hallucis Longus Tendon Laceration as a Complication of Total Ankle Arthroplasty," Foot & Ankle International, Vol. 34, No. 1, 2013, pp. 148–149.	☐
	10	"Prophecy Inbone Preoperative Navigation Guides," Wright Medical Technology, Inc., November 2013, 6 pages.	☐
	11	"RAYHACK Ulnar Shortening Generation II Low-Profile Locking System Surgical Technique," Wright Medical Technology, Inc., December 2013, 20 pages.	☐
	12	Rx-Fix Mini Rail External Fixator, Wright Medical Technology, Brochure, August 15, 2014, 2 pages.	☐
	13	SALTZMAN et al., "Prospective Controlled Trial of STAR Total Ankle Replacement Versus Ankle Fusion: Initial Results," Foot & Ankle International, Vol. 30, No. 7, July 2009, pp. 579–596.	☐
	14	SCANLAN et al. "Technique Tip: Subtalar Joint Fusion Using a Parallel Guide and Double Screw Fixation," The Journal of Foot and Ankle Surgery, Vol. 49, Issue 3, May-June 2010, pp. 305-309, (Abstract Only).	☐

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /C.N/

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	
	Filing Date	
	First Named Inventor	Paul Dayton
	Art Unit	
	Examiner Name	
	Attorney Docket Number	71212.4.1.USC7

	15	SCRANTON JR. et al, “Anatomic Variations in the First Ray: Part I. Anatomic Aspects Related to Bunion Surgery,” Clinical Orthopaedics and Related Research, Vol. 151, September 1980, pp. 244-255.	☐
	16	SIDDIQUI et al. "Fixation Of Metatarsal Fracture With Bone Plate In A Dromedary Heifer," Open Veterinary Journal, Vol. 3, No. 1, 2013, pp. 17-20.	☐
	17	SIDEKICK STEALTH Rearfoot Fixator, Wright Medical Technology, Surgical Technique, December 2, 2013, 20 pages.	☐
	18	SIMPSON et al., "Computer-Assisted Distraction Ostegogenesis By Ilizarov's Method," International Journal of Medical Robots and Computer Assisted Surgery, Vol. 4, No. 4, December 2008, pp. 310-320, (Abstract Only).	☐
	19	Small Bone External Fixation System, Acumed, Surgical Technique, Effective date September 2014, 8 pages.	☐
	20	“Smith & Nephew scores a HAT-TRICK with its entry into the high-growth hammer toe repair market,” Smith & Nephew, July 31, 2014, 2 pages.	☐
	21	Stableloc External Fixation System, Acumed, Product Overview, Effective date September 2015, 4 pages.	☐
	22	STAHL et al., "Derotation Of Post-Traumatic Femoral Deformities By Closed Intramedullary Sawing," Injury, Vol. 37, No. 2, February 2006, pp.145-151, (Abstract Only).	☐
	23	TALBOT et al.,” Assessing Sesamoid Subluxation: How Good is the AP Radiograph?,” Foot and Ankle International, Vol. 19, No. 8, August 1998, pp. 547-554.	☐
	24	TempFix Spanning the Ankle Joint Half Pin and Transfixing Pin Techniques, Biomet Orthopedics, Surgical Technique, 2012, 16 pages.	☐
	25	TOTH et al., "The Effect of First Ray Shortening in the Development of Metatarsalgia in the Second Through Fourth Rays After Metatarsal Osteotomy," Foot & Ankle International, Vol. 28, No. 1, January 2007, pp. 61-63.	☐

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /C.N/

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	First Named Inventor	Paul Dayton
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	Attorney Docket Number	71212.4.1.USC7

	26	TRICOT et al., "3D-corrective osteotomy using surgical guides for posttraumatic distal humeral deformity," Acta Orthopaedica Belgica, Vol. 78, No. 4, 2012, pp. 538–542.	☐
	27	VITEK et al., "Die Behandlung des Hallux rigidus mit Cheilektomie und Akin-Moberg-Osteotomie unter Verwendung einer neuen Schnittlehre und eines neuen Schraubensystems," Orthopadische Praxis, Vol. 44, November 2008, pp. 563–566, including English Abstract on page 564.	☐
	28	VITEK, "Neue Techniken in der Fußchirurgie Das V-tek-System," ABW Wissenschaftsverlag GmbH, 2009, 11 pages, including English Abstract.	☐
	29	WEBER et al., "A Simple System For Navigation Of Bone Alignment Osteotomies Of The Tibia," International Congress Series, Vol. 1268, January 2004, pp. 608-613, (Abstract Only).	☐
	30	WEIL et al., "Anatomic Plantar Plate Repair Using the Weil Metatarsal Osteotomy Approach," Foot & Ankle Specialist, Vol. 4, No. 3, 2011, pp. 145-150.	☐
	31	WENDL et al., "Navigation in der Knieendoprothetik," OP-Journal, Vol. 17, 2002, pp. 22–27, including English Abstract.	☐
	32	WHIPPLE et al., "Zimmer Herbert Whipple Bone Screw System: Surgical Techniques for Fixation of Scaphoid and Other Small Bone Fractures," Zimmer, 2003, 59 pages.	☐
	33	YAKACKI et al. "Compression Forces of Internal and External Ankle Fixation Devices with Simulated Bone Resorption," Foot and Ankle International, Vol. 31, No. 1, January 2010, pp. 76-85, (Abstract Only).	☐

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EXAMINER SIGNATURE

Examiner Signature	/CHRISTINA NEGRELLIRODRIGUEZ/	Date Considered	02/03/2025

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

[1] See Kind Codes of USPTO Patent Documents at www.USPTO.GOV or MPEP 901.04. [2] Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). [3] For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. [4] Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. [5] Applicant is to place a check mark here if English language translation is attached.

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	
	Filing Date	
	First Named Inventor	Paul Dayton
	Art Unit	
	Examiner Name	
	Attorney Docket Number	71212.4.1.USC7

CERTIFICATION STATEMENT

Please see 37 CFR 1.97 and 1.98 to make the appropriate selection(s):

☐ That each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(1).

OR

☐ That no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(2).

☐ See attached certification statement.

☐ The fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

☒ A certification statement is not submitted herewith.

SIGNATURE

A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

Signature	/Paul J. LaVanway, Jr./	Date (YYYY-MM-DD)	2024-03-25
Name/Print	Paul J. LaVanway, Jr.	Registration Number	64610

This collection of information is required by 37 CFR 1.97 and 1.98. 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 1 hour 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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9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

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First Name: F.

Examiner: NEGRELLIRODRIGUEZ, CHRISTINA

APP. #	Patent #	Status	Filing Date	Inventor Name	Title
06/486,268	4871364	150	04/18/1983	BAYS, F. BARRY	METAL CORE OSSICULAR REPLACEMENT PROSTHESIS
06/491,710	[]	161	05/05/1983	BAYS, F. BARRY	MYRINGOTOMY TUBES FORMED OF A HYDROCARBON BLOCK COPOLYMER POLYSILOXANE COMPOSITION
06/610,965	4650488	150	05/16/1984	BAYS, F. BARRY	BIODEGRADABLE PROSTHETIC DEVICE
06/654,729	D293734	150	09/27/1984	BAYS, F. BARRY	A SURGICAL INSTRUMENT COVER
06/776,439	4644951	150	09/16/1985	BAYS, F. BARRY	VACUUM SLEEVE FOR A SURGICAL APPLIANCE
06/839,222	[]	168	03/13/1986	BAYS, F. BARRY	ROTARY SURGICAL APPARATUS
06/865,184	[]	166	05/20/1986	BAYS, F. BARRY	REPAIR TACK FOR BODILY TISSUE AND IN VIVO METHOD OF DEPLOYING SAME
07/065,823	4936301	150	06/23/1987	BAYS, F. BARRY	ELECTROSURGICAL METHOD USING AN ELECTRICALLY CONDUCTIVE FLUID
07/117,158	4890615	150	11/05/1987	BAYS, F. BARRY	ARTHROSCOPIC SUTURING INSTRUMENT
07/194,091	4884572	150	05/16/1988	BAYS, F. BARRY	TACK AND APPLICATOR FOR TREATING TORN BODILY MATERIAL IN VIVO
07/195,417	4924865	150	05/16/1988	BAYS, F. BARRY	REPAIR TACK FOR BODILY TISSUE
07/255,331	4986825	250	10/11/1988	BAYS, F. BARRY	SURGICAL CUTTING INSTRUMENT
07/326,991	4923461	150	03/22/1989	BAYS, F. BARRY	ARTHROSCOPIC SUTURING INSTRUMENT AND METHOD OF ARTHROSCOPIC SUTURING OF TISSUE
07/326,994	4895148	150	03/22/1989	BAYS, F. BARRY	METHOD OF JOINING TORN PARTS OF BODILY TISSUE IN VIVO WITH A BIODEGRAD ABLE TACK MEMBER
07/343,730	4943290	150	04/27/1989	BAYS, F. BARRY	ELECTROLYTE PURGING ELECTRODE TIP
07/396,059	4921498	150	08/21/1989	BAYS, F. BARRY	METAL CORE OSSICULAR REPLACEMENT PROSTHESIS
07/432,886	4957498	150	11/07/1989	BAYS, F. BARRY	SUTURING INSTRUMENT
07/472,298	4976715	150	01/30/1990	BAYS, F. BARRY	REPAIR TACK FOR BODILY TISSUE
08/344,700	5494162	250	11/18/1994	BAYS, F. BARRY	PACKAGE AND METHOD FOR DELIVERING A MEDICAL IMPLANT
08/353,483	[]	161	12/09/1994	BAYS, F. BARRY	VALVE ASSEMBLY AND METHOD FOR RELIEVING SYNOVIAL FLUID PRESSURE
08/427,909	6406453	150	04/26/1995	BAYS, F. BARRY	COMPOSITE VENTILATION TUBE
08/497,117	5782795	150	06/30/1995	BAYS, F. BARRY	SURGICAL SUCTION CUTTING INSTRUMENT WITH INTERNAL IRRIGATION
08/539,390	5707383	250	10/05/1995	BAYS, F. BARRY	METHOD OF REMOVING SOFT TISSUE IN THE MIDDLE EAR
08/539,459	5796188	250	10/05/1995	BAYS, F. BARRY	BATTERY-POWERED MEDICAL INSTRUMENT WITH POWER BOOSTER
08/594,076	[]	168	01/30/1996	BAYS, F. BARRY	METHOD OF RELIEVING SYNOVIAL FLUID PRESSURE
08/719,130	[]	168	09/24/1996	BAYS, F. BARRY	POWERED HANDPIECE AND SURGICAL BLADES AND METHODS THEREFOR
08/751,015	5743910	150	11/14/1996	BAYS, F. BARRY	ORTHOPEDIC PROSTHESIS REMOVAL INSTRUMENT
08/775,147	[]	167	12/31/1996	BAYS, F. BARRY	POWERED HANDPIECE AND SURGICAL BLADES AND METHODS THEREFOR
08/855,466	5807303	250	05/13/1997	BAYS, F. BARRY	VALVE ASSEMBLY AND DEVICE FOR RELIEVING SYNOVIAL FLUID PRESSURE
08/857,185	5769093	150	05/15/1997	BAYS, F. BARRY	METHOD OF RELIEVING SYNOVIAL FLUID PRESSURE
09/005,010	5957945	150	01/09/1998	BAYS, F. BARRY	POWERED HANDPIECE SYSTEM
09/005,012	6010477	150	01/09/1998	BAYS, F. BARRY	SURGICAL BLADES ASSEMBLY

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Examiner: NEGRELLIRODRIGUEZ, CHRISTINA

APP. #	Patent #	Status	Filing Date	Inventor Name	Title
09/005,189	5916231	150	01/09/1998	BAYS, F. BARRY	POWERED HANDPIECE AND SURGICAL BLADES AND METHODS THEREFOR
09/025,474	6130264	150	02/18/1998	BAYS, F. BARRY	Synthetic Sponge and Surgical Steps Comprising Synthtic Sponge
09/263,715	5979469	250	03/05/1999	BAYS, F. BARRY	METHOD FOR RINSING A HIGH DENSITY SPONGE
09/305,342	6238400	150	04/30/1999	BAYS, F. BARRY	METHOD AND APPARATUS FOR TREPHINATION AND IRRIGATION OF THE FRONTAL SINUS CAVITY
09/392,797	[]	161	09/09/1999	BAYS, F. BARRY	POWERED LARYNGEAL CUTTING BLADE
09/450,788	6221088	150	11/30/1999	BAYS, F. BARRY	POWERED HANDPIECE AND SURGICAL BLADES AND METHODS THEREOF
29/038,142	D379510	150	04/27/1995	BAYS, F. BARRY	MEDICAL INSTRUMENT HANDLE
60/077,770	[]	159	02/26/1998	BAYS, F. BARRY	ABSORBENT BANDAGE FOR CONTROLLING POST-OPERATIVE LEAKAGE ASSOCIATED WITH TUMESCENT LIPOSUCTION
60/124,802	[]	159	03/18/1999	BAYS, F. BARRY	POWERED TISSUE ASPIRATION SYSTEM
09/119,457	6183433	150	07/20/1998	BAYS, F. BAYS	SURGICAL SUCTION CUTTING INSTRUMENT WITH INTERNAL IRRIGATION
09/487,709	[]	161	01/19/2000	Bays, F. Barry	Methods Of Tonsil Reduction By Thermal Ablation Using High Intensity Focused Ultrasound
09/544,264	6423078	150	04/06/2000	Bays, F. Barry	DERMABRASION INSTRUMENT, INSTRUMENT ASSEMBLY AND METHOD
09/629,842	6451013	150	07/31/2000	Bays, F. Barry	METHODS OF TONSIL REDUCTION USING HIGH INTENSITY FOCUSED ULTRASOUND TO FORM AN ABATED TISSUE AREA CONTAINING A PLURALITY OF LESIONS
09/666,349	[]	164	09/21/2000	Bays, F. Barry	LARYNGOSCOPE HAVING A CLIP FOR ADJUSTABLY MOUNTING AN ENDOSCOPE TO A BLADE AND METHODS OF USING THE SAME
09/678,806	6329438	150	10/04/2000	Bays, F. Barry	High density sponge and method and apparatus for rinsing a high density sponge
09/692,232	6620180	150	10/20/2000	Bays, F. Barry	POWERED LARYNGEAL CUTTING BLADE
09/851,150	6391016	150	05/09/2001	Bays, F. Barry	METHODS FOR TREPHINATION AND IRRIGATION OF THE FRONTAL SINUS CAVITY
10/028,775	6939494	250	12/28/2001	Bays, F. Barry	METHOD OF MAKING VENTILATION TUBE
10/028,776	6692455	250	12/28/2001	Bays, F. Barry	COMPOSITE VENTILATION TUBE
10/682,253	6936023	150	10/10/2003	Bays, F. Barry	COMPOSITE VENTILATION TUBE
10/682,289	7776594	250	10/09/2003	Bays, F. Barry	BONE MARROW INFUSION CHAMBER AND METHOD
10/884,448	7137987	150	07/02/2004	Bays, F. Barry	DISTAL RADIUS BONE PLATING SYSTEM WITH LOCKING AND NON-LOCKING SCREWS
14/724,072	9925068	150	05/28/2015	Bays, F. Barry	BONE HARVESTER AND BONE MARROW REMOVAL SYSTEM AND METHOD
14/981,335	9622805	150	12/28/2015	Bays, F. Barry	BONE POSITIONING AND PREPARING GUIDE SYSTEMS AND METHODS
14/990,574	9687250	150	01/07/2016	Bays, F. Barry	BONE CUTTING GUIDE SYSTEMS AND METHODS
15/047,288	10849631	150	02/18/2016	Bays, F. Barry	PIVOTABLE BONE CUTTING GUIDE USEFUL FOR BONE REALIGNMENT AND COMPRESSION TECHNIQUES
15/047,343	10245086	150	02/18/2016	Bays, F. Barry	BONE PLATING KIT FOR FOOT AND ANKLE APPLICATIONS

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Examiner: NEGRELLIRODRIGUEZ, CHRISTINA

APP. #	Patent #	Status	Filing Date	Inventor Name	Title
15/148,774	10653467	150	05/06/2016	Bays, F. Barry	INTRA-OSSEOUS PLATE SYSTEM AND METHOD
15/210,426	9936994	150	07/14/2016	Bays, F. Barry	BONE POSITIONING GUIDE
15/210,497	10849663	150	07/14/2016	Bays, F. Barry	BONE CUTTING GUIDE SYSTEMS AND METHODS
15/236,464	10342590	150	08/14/2016	Bays, F. Barry	TARSAL-METATARSAL JOINT PROCEDURE UTILIZING FULCRUM
15/267,531	10575862	150	09/16/2016	Bays, F. Barry	JOINT SPACER SYSTEMS AND METHODS
15/452,236	10045807	150	03/07/2017	Bays, F. Barry	BONE POSITIONING AND PREPARING GUIDE SYSTEMS AND METHODS
15/603,056	10603046	150	05/23/2017	Bays, F. Barry	BONE CUTTING GUIDE SYSTEMS AND METHODS
15/687,986	10512470	150	08/28/2017	Bays, F. Barry	OSTEOTOMY PROCEDURE FOR CORRECTING BONE MISALIGNMENT
15/687,994	11076863	150	08/28/2017	Bays, F. Barry	OSTEOTOMY PROCEDURE FOR CORRECTING BONE MISALIGNMENT
15/894,686	11020244	150	02/12/2018	Bays, F. Barry	BONE HARVESTER AND BONE MARROW REMOVAL SYSTEM AND METHOD
15/910,428	10335220	150	03/02/2018	Bays, F. Barry	BONE POSITIONING GUIDE
16/031,855	10849670	150	07/10/2018	Bays, F. Barry	BONE POSITIONING AND PREPARING GUIDE SYSTEMS AND METHODS
16/278,264	11344347	150	02/18/2019	Bays, F. Barry	BONE PLATING KIT FOR FOOT AND ANKLE APPLICATIONS
16/422,557	11185359	150	05/24/2019	Bays, F. Barry	BONE POSITIONING GUIDE
16/448,357	11413081	150	06/21/2019	Bays, F. Barry	TARSAL-METATARSAL JOINT PROCEDURE UTILIZING FULCRUM
16/505,363	11278337	150	07/08/2019	Bays, F. Barry	TARSAL-METATARSAL JOINT PROCEDURE UTILIZING FULCRUM
16/593,153	10561426	150	10/04/2019	Bays, F. Barry	BONE CUTTING GUIDE SYSTEMS AND METHODS
16/730,424	10945764	150	12/30/2019	Bays, F. Barry	BONE POSITIONING AND CUTTING SYSTEM AND METHOD
16/731,612	10874446	150	12/31/2019	Bays, F. Barry	BONE POSITIONING GUIDE
16/750,829	11648019	150	01/23/2020	Bays, F. Barry	JOINT SPACER SYSTEMS AND METHODS
16/792,880	10888335	150	02/17/2020	Bays, F. Barry	BONE CUTTING GUIDE SYSTEMS AND METHODS
16/877,159	11426219	150	05/18/2020	Bays, F. Barry	INTRA-OSSEOUS PLATE SYSTEM AND METHOD
16/997,864	11116558	150	08/19/2020	Bays, F. Barry	BONE POSITIONING GUIDE
16/998,155	11039873	150	08/20/2020	Bays, F. Barry	BONE POSITIONING AND PREPARING GUIDE SYSTEMS AND METHODS
17/106,306	11963703	150	11/30/2020	Bays, F. Barry	BONE CUTTING GUIDE SYSTEMS AND METHODS
17/106,314	11844533	150	11/30/2020	Bays, F. Barry	PIVOTABLE BONE CUTTING GUIDE USEFUL FOR BONE REALIGNMENT AND COMPRESSION TECHNIQUES
17/118,597	11786257	150	12/10/2020	Bays, F. Barry	BONE CUTTING GUIDE SYSTEMS AND METHODS
17/201,008	11147590	150	03/15/2021	Bays, F. Barry	BONE POSITIONING AND CUTTING SYSTEM AND METHOD
17/335,046	[]	93	05/31/2021	Bays, F. Barry	BONE HARVESTER AND BONE MARROW REMOVAL SYSTEM AND METHOD
17/353,431	11213333	150	06/21/2021	Bays, F. Barry	BONE POSITIONING AND PREPARING GUIDE SYSTEMS AND METHODS
17/392,010	11931047	150	08/02/2021	Bays, F. Barry	OSTEOTOMY PROCEDURE FOR CORRECTING BONE MISALIGNMENT
17/503,730	11937849	150	10/18/2021	Bays, F. Barry	BONE POSITIONING AND CUTTING SYSTEM AND METHOD
17/537,183	11602386	150	11/29/2021	Bays, F. Barry	BONE POSITIONING GUIDE

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Examiner: NEGRELLIRODRIGUEZ, CHRISTINA

APP. #	Patent #	Status	Filing Date	Inventor Name	Title
17/567,879	11602387	150	01/03/2022	Bays, F. Barry	BONE POSITIONING AND PREPARING GUIDE SYSTEMS AND METHODS
17/721,353	[]	41	04/14/2022	Bays, F. Barry	SYSTEMS AND TECHNIQUES FOR PERFORMING PATIENT-SPECIFIC BONE ALIGNMENT AND FUSION
17/828,002	[]	71	05/30/2022	Bays, F. Barry	BONE PLATING KIT FOR FOOT AND ANKLE APPLICATIONS
17/836,801	11497528	150	06/09/2022	Bays, F. Barry	BONE POSITIONING AND CUTTING SYSTEM AND METHOD
17/836,809	11523845	150	06/09/2022	Bays, F. Barry	BONE POSITIONING AND CUTTING SYSTEM AND METHOD
17/888,272	11690659	150	08/15/2022	Bays, F. Barry	TARSAL-METATARSAL JOINT PROCEDURE UTILIZING FULCRUM
17/897,321	11969193	150	08/29/2022	Bays, F. Barry	INTRA-OSSEOUS PLATE SYSTEM AND METHOD
18/057,762	11771443	150	11/21/2022	Bays, F. Barry	JOINT SPACER SYSTEMS AND METHODS
18/064,916	11771467	150	12/12/2022	Bays, F. Barry	BONE POSITIONING AND CUTTING SYSTEM AND METHOD
18/182,995	11950819	150	03/13/2023	Bays, F. Barry	BONE POSITIONING GUIDE
18/183,013	11911085	150	03/13/2023	Bays, F. Barry	BONE POSITIONING AND PREPARING GUIDE SYSTEMS AND METHODS
18/323,138	[]	30	05/24/2023	Bays, F. Barry	TARSAL-METATARSAL JOINT PROCEDURE UTILIZING FULCRUM
18/479,708	[]	71	10/02/2023	Bays, F. Barry	JOINT SPACER SYSTEMS AND METHODS
18/544,406	[]	41	12/18/2023	Bays, F. Barry	PIVOTABLE BONE CUTTING GUIDE USEFUL FOR BONE REALIGNMENT AND COMPRESSION TECHNIQUES
18/587,921	[]	93	02/26/2024	Bays, F. Barry	BONE POSITIONING AND PREPARING GUIDE SYSTEMS AND METHODS
18/608,717	[]	30	03/18/2024	Bays, F. Barry	OSTEOTOMY PROCEDURE FOR CORRECTING BONE MISALIGNMENT
18/615,875	[]	30	03/25/2024	Bays, F. Barry	BONE POSITIONING AND CUTTING SYSTEM AND METHOD
18/627,609	12102368	150	04/05/2024	Bays, F. Barry	BONE POSITIONING GUIDE
18/642,470	[]	30	04/22/2024	Bays, F. Barry	BONE CUTTING GUIDE SYSTEMS AND METHODS
18/645,205	[]	93	04/24/2024	Bays, F. Barry	BONE CUTTING GUIDE SYSTEMS AND METHODS
18/645,596	[]	93	04/25/2024	Bays, F. Barry	TARSAL-METATARSAL JOINT PROCEDURE UTILIZING FULCRUM
18/649,799	[]	41	04/29/2024	Bays, F. Barry	INTRA-OSSEOUS PLATE SYSTEM AND METHOD
18/901,388	[]	30	09/30/2024	Bays, F. Barry	BONE POSITIONING GUIDE
19/030,046	[]	19	[]	Bays, F. Barry	TARSAL-METATARSAL JOINT PROCEDURE UTILIZING FULCRUM
19/030,114	[]	19	[]	Bays, F. Barry	BONE POSITIONING AND PREPARING GUIDE SYSTEMS AND METHODS
19/030,150	[]	19	[]	Bays, F. Barry	BONE CUTTING GUIDE SYSTEMS AND METHODS
19/031,828	[]	19	[]	Bays, F. Barry	BONE POSITIONING AND CUTTING SYSTEM AND METHOD
60/418,077	[]	159	10/10/2002	Bays, F. Barry	Method and apparatus for preparing a bone graft composite
62/005,693	[]	159	05/30/2014	Bays, F. Barry	Bone Harvester Device and Method
62/005,698	[]	159	05/30/2014	Bays, F. Barry	Suture Retention Device and Method
62/040,210	[]	159	08/21/2014	Bays, F. Barry	INTEGRATED BONE HARVESTER AND BONE MARROW REMOVAL SYSTEM AND METHOD

Last Name: Bays
First Name: F.

Examiner: NEGRELLIRODRIGUEZ, CHRISTINA

APP. #	Patent #	Status	Filing Date	Inventor Name	Title
62/051,499	[]	159	09/17/2014	Bays, F. Barry	BONE HARVESTER AND BONE MARROW REMOVAL SYSTEM AND METHOD
62/100,641	[]	159	01/07/2015	Bays, F. Barry	BONE CUTTING GUIDE SYSTEMS AND METHODS
62/117,788	[]	159	02/18/2015	Bays, F. Barry	BONE PLATING KIT AND METHODS
62/157,561	[]	159	05/06/2015	Bays, F. Barry	INTRA-OSSEOUS PLATE SYSTEM AND METHOD
62/192,290	[]	159	07/14/2015	Bays, F. Barry	BONE CUTTING GUIDE SYSTEMS AND METHODS
62/192,319	[]	159	07/14/2015	Bays, F. Barry	BONE POSITIONING SYSTEMS AND METHODS
62/205,338	[]	159	08/14/2015	Bays, F. Barry	BONE POSITIONING AND PREPARING GUIDE SYSTEMS AND METHODS
62/220,530	[]	159	09/18/2015	Bays, F. Barry	JOINT SPACER SYSTEMS AND METHODS
62/293,189	[]	159	02/09/2016	Bays, F. Barry	TARSAL-METATARSAL JOINT PROCEDURE UTILIZING FULCRUM
62/366,219	[]	159	07/25/2016	Bays, F. Barry	JOINT SPACER SYSTEMS AND METHODS
62/380,074	[]	159	08/26/2016	Bays, F. Barry	OSTEOTOMY PROCEDURE FOR CORRECTING BONE MISALIGNMENT
63/174,691	[]	159	04/14/2021	Bays, F. Barry	SYSTEMS AND TECHNIQUES FOR PERFORMING PATIENT-SPECIFIC BONE ALIGNMENT AND FUSION

Bibliographic Data

Application No: 18/615,875

Foreign Priority claimed: ○ Yes ◉ No

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

Verified and Acknowledged: /CHRISTINA NEGRELLIRODRIGUEZ/ Examiner's Signature | Initials

Title: BONE POSITIONING AND CUTTING SYSTEM AND METHOD

FILING or 371(c) DATE	CLASS	GROUP ART UNIT	ATTORNEY DOCKET NO.
03/25/2024	606	3773	71212.4.1.USC7
RULE			

APPLICANTS

Treace Medical Concepts, Inc., Ponte Vedra, FL, UNITED STATES

INVENTORS

Paul Dayton, Ankeny, IA, UNITED STATES

F. Barry Bays, Collierville, TN, UNITED STATES

CONTINUING DATA

This application is a CON of 17503730 10/18/2021 PAT 11937849

17503730 is a CON of 17201008 03/15/2021 PAT 11147590

17201008 is a CON of 16730424 12/30/2019 PAT 10945764

16730424 is a CON of 15894702 02/12/2018 PAT 10555757

15894702 is a DIV of 14799981 07/15/2015ABN

14799981 has PRO of 62024546 07/15/2014

FOREIGN APPLICATIONS

IF REQUIRED, FOREIGN LICENSE GRANTED**

05/01/2024

STATE OR COUNTRY

UNITED STATES

ADDRESS

FREDRIKSON & BYRON, P.A.
INTELLECTUAL PROPERTY GROUP
60 SOUTH SIXTH STREET, SUITE 1500
MINNEAPOLIS, MN 55402
UNITED STATES

FILING FEE RECEIVED

$6,020

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.
18/615,875	03/25/2024	Paul Dayton	71212.4.1.USC7	8549

22859 7590 02/12/2025

FREDRIKSON & BYRON, P.A.
INTELLECTUAL PROPERTY GROUP
60 SOUTH SIXTH STREET, SUITE 1500
MINNEAPOLIS, MN 55402

EXAMINER
NEGRELLIRODRIGUEZ, CHRISTINA

ART UNIT	PAPER NUMBER
3773	

NOTIFICATION DATE	DELIVERY MODE
02/12/2025	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):

IP@FREDLAW.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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In re Application of	:	
Dayton et al.	:	
Application No. 18/615,875	:	DECISION ON PETITION
Filed: 25 Mar 2024	:	
For: BONE POSITIONING AND	:	
CUTTING SYSTEM AND METHOD	:	

This is a decision on the petition filed November 26, 2024, under 37 CFR 1.181, requesting reconsideration of the decision issued May 23, 2024 dismissing the Request for Prioritized Examination under 37 CFR 1.102(e) filed March 25, 2024.

The petition is DISMISSED as untimely.

DISCUSSION

The above-identified application was filed with the United States Patent and Trademark Office (USPTO) March 25, 2024, which was accompanied by, *inter alia*, a Certification and Request for Prioritized Examination under 37 CFR 1.102(e) (hereinafter "Track 1 Request").

The Track 1 Request filed March 25, 2024 was dismissed in a decision issued May 23, 2024 because the processing fee, as set forth in 37 CFR 1.17(i)(1) was not submitted on the same date the above-identified application was filed.

A request for reconsideration of the dismissal of the Track 1 Request was filed November 26, 2024, over six months from the decision date of May 23, 2024.

MPEP 708.02(b) I. B. 4. states:

> If the request for prioritized examination is dismissed, applicant can file a petition under 37 CFR 1.181 if applicant believes that a decision dismissing the request for prioritized examination is not proper. Applicant should review the reason(s) stated in the decision dismissing the request and make a determination that an error was made by the Office in not granting the request before filing such a petition under 37 CFR 1.181.

37 CFR 1.181(f) states:

> Any petition under this part not filed within two months of the mailing date of the action or notice from which relief is requested may be dismissed as untimely, except as otherwise provided. This two-month period is not extendable.

The present petition, which was filed November 26, 2024, was not filed within two months of issuance of the May 23, 2024 decision. Therefore, the present petition was untimely filed and is dismissed.

The Track 1 prioritized examination fee of $4,200 submitted on March 25, 2024 was refunded on July 31, 2024. The Track 1 prioritized examination fee $4,200 resubmitted on November 26, 2024 will be refunded in due course.

The above-identified application will not undergo prioritized examination under 37 CFR 1.102(e) and will continue to be processed as a new application in the normal, non-prioritized, course of business.

Telephone inquiries concerning this decision should be directed to Vanitha Elgart at 571.272.7395.

/VANITHA M ELGART/
Petitions Examiner, OPET

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 #
18/615,875	**11/26/2024 11:03:19 AM Z ET**	**71212.4.1.USC7**

Title of Invention

BONE POSITIONING AND CUTTING SYSTEM AND METHOD

Application Information

APPLICATION TYPE	Utility - Nonprovisional Application under 35 USC 111(a)	PATENT #	-
CONFIRMATION #	8549	FILED BY	Paul LaVanway
PATENT CENTER #	68125015	AUTHORIZED BY	-
CUSTOMER #	22859	FILING DATE	03/25/2024
CORRESPONDENCE ADDRESS	-	FIRST NAMED INVENTOR	Paul Dayton

Payment Information

PAYMENT METHOD	PAYMENT TRANSACTION ID	PAYMENT AUTHORIZED BY
CARD / 9797	**E2024APB03465386**	**Paul LaVanway**

FEE CODE	DESCRIPTION	ITEM PRICE($)	QUANTITY	ITEM TOTAL($)
1817	REQUEST FOR PRIORITIZED EXAMINATION	4200.00	1	4200.00
1830	PROCESSING FEE, EXCEPT IN PROVISIONAL APPLICATIONS	140.00	1	140.00
			TOTAL AMOUNT:	**$4,340.00**

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 #
18/615,875	**11/26/2024 11:03:19 AM Z ET**	**71212.4.1.USC7**

Title of Invention

BONE POSITIONING AND CUTTING SYSTEM AND METHOD

Application Information

APPLICATION TYPE	Utility - Nonprovisional Application under 35 USC 111(a)	PATENT #	-
CONFIRMATION #	8549	FILED BY	Paul LaVanway
PATENT CENTER #	68125015	FILING DATE	03/25/2024
CUSTOMER #	22859	FIRST NAMED INVENTOR	Paul Dayton
CORRESPONDENCE ADDRESS	-	AUTHORIZED BY	-

Documents

TOTAL DOCUMENTS: 1

DOCUMENT	PAGES	DESCRIPTION	SIZE (KB)
71212_4_1_USC7.pdf	1	Petition for review by the Office of Petitions	99 KB

Digest

DOCUMENT	MESSAGE DIGEST(SHA-512)
71212_4_1_USC7.pdf	E26D0DC3872515CE45AD142FBC5FE831EC49D61EBF49755A B048570760111F4EB4BADB398FFB0229A9106A07F7B2686D4 DD35AE8432DC396AF57339263ED815A

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.

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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.

Customer Number: 22859 Attorney Docket No. 71212.4.1.USC7

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

First Named Inventor:	Paul Dayton		
Application No.:	18/615,875	Group Art Unit:	3773
Filed:	March 25, 2024	Examiner:	DOCKET CENTRAL
Title:	BONE POSITIONING AND CUTTING SYSTEM AND METHOD		

PETITION UNDER 37 CFR 1.181 REQUESTING RECONSIDERATION OF PRIORITIZED EXAMINATION

Dear Commissioner:

In response to the Decision Dismissing Request for Prioritized Examination ("the Decision") mailed May 23, 2024 for the above-referenced patent application, Applicant files this petition under 37 C.F.R. § 1.181 requesting reconsideration of the Decision. The Decision denied Applicant's request for prioritized examination on the grounds that the Track I processing fee set forth in 37 C.F.R. § 1.17(i) was not include with the original request.

Applicant's omission of the Track I processing fee set forth in 37 C.F.R. § 1.17(i) was inadvertent. Applicant encloses with this request the required Track I processing fee set forth in 37 C.F.R. § 1.17(i). Applicant therefore respectfully requests the Patent Office reconsider and accept Applicant's request for prioritized examination. The fees are being made at the time of submission via EFS-web.

The Commissioner is hereby authorized to charge any fees that may be required, including those under 37 C.F.R. §§ 1.16 and 1.17, during the entire pendency of this application to Deposit Account No. 06-1910. The Petitions Office is invited to telephone the undersigned if it would be useful to advance consideration of the petition.

Dated: November 26, 2024

Respectfully submitted,

FREDRIKSON & BYRON, P.A.
60 South Sixth Street, Suite 1500
Minneapolis, MN 55402-4400 USA
Telephone: 612.492.7387

/Paul J. LaVanway, Jr./

Paul J. LaVanway, Jr.
Registration No. 64,610

Please grant any extension of time necessary for entry; charge any fee due to Deposit Account No. 06-1910.
#82743424v1

PTO/SB/08a (01-22)
Approved for use through 05/31/2024. OMB 0651-0031
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Not for submission under 37 CFR 1.99)

Application Number	18615875
Filing Date	2024-03-25
First Named Inventor	Paul Dayton
Art Unit	3773
Examiner Name	NA
Attorney Docket Number	71212.4.1.USC7

U.S.PATENTS Remove

Examiner Initial*	Cite No	Patent Number	Kind Code[1]	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	4364381	A	1982-12-21	Sher et al.	

If you wish to add additional U.S. Patent citation information please click the Add button. Add

U.S.PATENT APPLICATION PUBLICATIONS Remove

Examiner Initial*	Cite No	Publication Number	Kind Code[1]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	20060036257	A1	2006-02-16	Steffensmeier	
	2	20020058944	A1	2002-05-16	Michelson	

If you wish to add additional U.S. Published Application citation information please click the Add button. Add

FOREIGN PATENT DOCUMENTS Remove

Examiner Initial*	Cite No	Foreign Document Number[3]	Country Code[2] i	Kind Code[4]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear	T[5]
	1							☐

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NON-PATENT LITERATURE DOCUMENTS Remove

PC 6.1.24

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (**Not for submission under 37 CFR 1.99)**		
	Application Number	18615875
	Filing Date	2024-03-25
	First Named Inventor	Paul Dayton
	Art Unit	3773
	Examiner Name	NA
	Attorney Docket Number	71212.4.1.USC7

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, pages(s), volume-issue number(s), publisher, city and/or country where published.	T[5]
	1		☐

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EXAMINER SIGNATURE

Examiner Signature		Date Considered	

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

[1] See Kind Codes of USPTO Patent Documents at www.USPTO.GOV or MPEP 901.04. [2] Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). [3] For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. [4] Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. [5] Applicant is to place a check mark here if English language translation is attached.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	18615875
	Filing Date	2024-03-25
	First Named Inventor	Paul Dayton
	Art Unit	3773
	Examiner Name	NA
	Attorney Docket Number	71212.4.1.USC7

CERTIFICATION STATEMENT

Please see 37 CFR 1.97(e) to make the appropriate selection(s):

☐ That each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(1).

OR

☐ That no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(2).

☐ See attached certification statement.

☒ A certification statement is not submitted herewith.

FEE

☐ The fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

COPIES

☐ An identification of an earlier application pursuant to 37 CFR 1.98 (d) (1) is attached.

SIGNATURE

A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

Signature	/Paul J. LaVanway, Jr./	Date (YYYY-MM-DD)	2024-10-08
Name/Print	Paul J. LaVanway, Jr.	Registration Number	64,610

This collection of information is required by 37 CFR 1.97 and 1.98. 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 1 hour 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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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:

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

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

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

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

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

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

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

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

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PATENT AND TRADEMARK OFFICE

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ELECTRONIC ACKNOWLEDGEMENT RECEIPT

APPLICATION #	RECEIPT DATE / TIME	ATTORNEY DOCKET #
18/615,875	**10/24/2024 05:03:47 PM Z ET**	**71212.4.1.USC7**

Title of Invention

BONE POSITIONING AND CUTTING SYSTEM AND METHOD

Application Information

APPLICATION TYPE	Utility - Nonprovisional Application under 35 USC 111(a)	PATENT #	-
CONFIRMATION #	8549	FILED BY	Ethan Dolentz
PATENT CENTER #	67524906	FILING DATE	03/25/2024
CUSTOMER #	22859	FIRST NAMED INVENTOR	Paul Dayton
CORRESPONDENCE ADDRESS	-	AUTHORIZED BY	Paul LaVanway

Documents

TOTAL DOCUMENTS: 1

DOCUMENT	PAGES	DESCRIPTION	SIZE (KB)
71212.4.1.USC7 IDS 5.pdf	4	Information Disclosure Statement (IDS) Form (SB08)	1313 KB

Digest

DOCUMENT	MESSAGE DIGEST(SHA-512)
71212.4.1.USC7 IDS 5.pdf	B807710D9CF10906CAA3EDBED52482292C0718D3C4B22916EC5817A7C0CADA4778667317CCE02031FCEB308CB80056B4B80AFFFC0E9BBC06C9CB64C6FD78A281

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New Applications Under 35 U.S.C. 111

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APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
18/615,875	03/25/2024	Paul Dayton	71212.4.1.USC7

CONFIRMATION NO. 8549

22859
FREDRIKSON & BYRON, P.A.
INTELLECTUAL PROPERTY GROUP
60 SOUTH SIXTH STREET, SUITE 1500
MINNEAPOLIS, MN 55402

PUBLICATION NOTICE

OC000000076246065

Date Mailed: 08/08/2024

Title:BONE POSITIONING AND CUTTING SYSTEM AND METHOD

Publication No.US-2024-0260995-A1
Publication Date:08/08/2024

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.

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User :Hieu Le

Refund Accounting Date:07/31/2024

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07/31/2024	18615875	$4,200.00

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I20247U902307231	1817	REQUEST FOR PRIORITIZED EXAMINATION	$4,200.00	Visa	**********9797

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User :Hieu Le

Sale Adjustment Accounting Date:07/31/2024

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07/31/2024	07/31/2024	18615875

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I20247U902307231	1817	REQUEST FOR PRIORITIZED EXAMINATION	$4,200.00	Visa

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
18/615,875	03/25/2024	Paul Dayton	71212.4.1.USC7	8549

22859 7590 05/23/2024

FREDRIKSON & BYRON, P.A.
INTELLECTUAL PROPERTY GROUP
60 SOUTH SIXTH STREET, SUITE 1500
MINNEAPOLIS, MN 55402

EXAMINER	
CENTRAL, DOCKET	

ART UNIT	PAPER NUMBER
3773	

NOTIFICATION DATE	DELIVERY MODE
05/23/2024	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):

IP@FREDLAW.COM

Decision Dismissing Request for Prioritized Examination (Track I)	Application No. 18/615,875	Applicant(s) Dayton et al.	
	Examiner FIKIRTE A GEREMEW	Art Unit OMBL	AIA (FITF) Status Yes

1. THE REQUEST FILED 25 March 2024 IS **DISMISSED** BECAUSE:

A. ☐ The application is not a utility application under 35 U.S.C. 111(a) filed by Patent Electronic System or a plant application under 35 U.S.C. 111(a):
   i. ☐ The application is a utility application that was not filed by Patent Electronic System.
   ii. ☐ The application is neither a utility application nor a plant application, but rather is a _____ , which is excluded from the Track I program.

B. ☐ The request was not filed with the application or on the same date of the application.

C. ☑ One or more of the following fees were not filed with the application:
   i. ☐ Basic filing fee, as set forth in 37 CFR 1.16(a), or for a plant application, 37 CFR 1.16(c).
   ii. ☐ Search fee, as set forth in 37 CFR 1.16(k), or for a plant application, 37 CFR 1.16(m).
   iii. ☐ Examination fee, as set forth in 37 CFR 1.16(o), or for a plant application, 37 CFR 1.16(q).
   iv. ☐ Publication fee, as set forth in 37 CFR 1.18(d).
   v. ☑ Track I processing fee, as set forth in 37 CFR 1.17(i).
   vi. ☐ Track I prioritized examination fee, as set forth in 37 CFR 1.17(c).
   vii. ☐ Application size fee, due because the specification and drawings exceed 100 sheets of paper, as set forth in 37 CFR 1.16(s).
   viii. ☐ Excess independent claim fee, due because the number of independent claims exceeds three, as set forth in 37 CFR 1.16(h).
   ix. ☐ Excess claim fee, due because the number of claims exceeds twenty, as set forth in 37 CFR 1.16(i).

D. ☐ The executed inventor's oath or declaration, or an application data sheet meeting the conditions specified in 37 CFR 1.53(f)(3)(i) was not filed with the application or on the same date the application was filed.

E. ☐ The application contains or has been amended to contain:
   i. ☐ More than four independent claims.
   ii. ☐ More than thirty total claims.
   iii. ☐ One or more multiple dependent claims.

F. ☐ The Track I program has exceeded its limit of 15,000 requests for the current fiscal year.

G. ☐ Other: _____

2. CONCLUSION

☐ **ALL of the above defect(s) consist only of one or more of items E (i-iii). Applicant is hereby accorded a non-extendable ONE MONTH time period from the mailing date of this Decision to (1) correct the subject defect(s) and (2) file a petition under 37 CFR 1.181 requesting reconsideration of prioritized examination. If no such petition is timely filed, the application will not undergo prioritized examination.**

- OR -

☑ **The application will not undergo prioritized examination, because the request was not accompanied by all of the required items.**

Telephone inquiries with regard to this decision should be directed to FIKIRTE A GEREMEW at (703) 756-1930. In his/her absence, calls may be directed to Petition Help Desk at (571) 272-3282.

/FIKIRTE A GEREMEW/ PROGRAM SUPPORT SPECIALIST, OMBL	

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APPLICATION NUMBER	FILING or 371(c) DATE	GRP ART UNIT	FIL FEE REC'D	ATTY.DOCKET.NO	TOT CLAIMS	IND CLAIMS
18/615,875	03/25/2024		1820	71212.4.1.USC7	20	3

CONFIRMATION NO. 8549

FILING RECEIPT

22859
FREDRIKSON & BYRON, P.A.
INTELLECTUAL PROPERTY GROUP
60 SOUTH SIXTH STREET, SUITE 1500
MINNEAPOLIS, MN 55402

Date Mailed: 05/02/2024

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.

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Inventor(s)

Paul Dayton, Ankeny, IA;
F. Barry Bays, Collierville, TN;

Applicant(s)

Treace Medical Concepts, Inc., Ponte Vedra, FL;

Power of Attorney: The patent practitioners associated with Customer Number 22859

Domestic Priority data as claimed by applicant

This application is a CON of 17/503,730 10/18/2021 PAT 11,937,849
which is a CON of 17/201,008 03/15/2021 PAT 11,147,590
which is a CON of 16/730,424 12/30/2019 PAT 10,945,764
which is a CON of 15/894,702 02/12/2018 PAT 10,555,757
which is a DIV of 14/799,981 07/15/2015 ABN
which claims benefit of 62/024,546 07/15/2014

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: 05/01/2024

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US 18/615,875**

Projected Publication Date: 08/08/2024

Non-Publication Request: No

Early Publication Request: No

Title

BONE POSITIONING AND CUTTING SYSTEM AND METHOD

Preliminary Class

Statement under 37 CFR 1.55 or 1.78 for AIA (First Inventor to File) Transition Applications: No

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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.

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PATENT APPLICATION FEE DETERMINATION RECORD

Substitute for Form PTO-875

Application or Docket Number: 18/615,875

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))	20 minus 20 =	* 0			OR	x =	0
INDEPENDENT CLAIMS (37 CFR 1.16(h))	3 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	SMALL ENTITY RATE($)	SMALL ENTITY ADDITIONAL FEE($)	OR	OTHER THAN SMALL ENTITY RATE($)	OTHER THAN SMALL ENTITY ADDITIONAL FEE($)
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".

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Kathi Vidal

Kathi Vidal
Under Secretary of Commerce for Intellectual Property and
Director of the United States Patent and Trademark Office

Derrick Brent
Deputy Under Secretary of Commerce for Intellectual Property and
Deputy Director of the United States Patent and Trademark Office

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

First Named Inventor:	Paul Dayton		
Application No.:	Not Yet Assigned	Group Art Unit:	Not Yet Assigned
Filed:	Herewith	Examiner:	Not Yet Assigned
Title:	BONE POSITIONING AND CUTTING SYSTEM AND METHOD		

INFORMATION DISCLOSURE STATEMENT

Dear Commissioner:

Pursuant to 37 C.F.R. § 1.56, the attention of the Patent and Trademark Office is hereby directed to the references listed on the attached Form PTO/SB/08a. Copies of references not enclosed with this submission can be found in Application No. 17/503,730, filed October 18, 2021, Application No. 17/201,008, filed March 15, 2021, Application No. 16/730,424, filed December 30, 2019, Application No. 15/894,702, filed February 12, 2018, or Application No. 14/799,981, filed July 15, 2015, from which the present application derives priority. In accordance with 37 C.F.R. § 1.98(d), Applicant is not enclosing additional copies of these references. It is respectfully requested that the information be expressly considered during the prosecution of this application, and that the references be made of record therein and appear among the "References Cited" on any patent to issue therefrom.

By submitting these references, Applicant does not admit that the references are prior art to or material to this application, and reserves the right to establish that any reference is not prior art. Applicant does not represent that the references have been reviewed in detail; there may be details in the references of which Applicant is unaware.

Dated: March 25, 2024

Respectfully submitted,

FREDRIKSON & BYRON, P.A.
60 South Sixth Street, Suite 1500
Minneapolis, MN 55402-4400 USA
Telephone: 612.492.7387

/Paul J. LaVanway, Jr./

Paul J. LaVanway, Jr.
Registration No. 64,610

Please grant any extension of time necessary for entry; charge any fee due to Deposit Account No. 06-1910.

#81995389v1

BONE POSITIONING AND CUTTING SYSTEM AND METHOD

RELATED APPLICATIONS

[0001] This application is a continuation application of U.S. Patent Application No. 17/503,730, filed October 18, 2021, which is a continuation application of U.S. Patent Application No. 17/201,008, filed March 15, 2021, issued as U.S. Patent No. 11,147,590, on October 19, 2021, which is a continuation application of U.S. Patent Application No. 16/730,424, filed December 30, 2019, issued as U.S. Patent No. 10,945,764, on March 16, 2021, which is a continuation application of U.S. Patent Application No. 15/894,702, filed February 12, 2018, issued as U.S. Patent No. 10,555,757, on February 11, 2020, which is a divisional application of U.S. Patent Application No. 14/799,981, filed July 15, 2015, which claims priority to U.S. Provisional Application No. 62/024,546, filed July 15, 2014. The entire contents of each of these applications are hereby incorporated by reference.

TECHNICAL FIELD

[0002] This disclosure generally relates to devices and methods for positioning and cutting bones.

BACKGROUND

[0003] In various surgical procedures, it can be necessary to cut one or more bones. Success of such surgical procedures may often times be a function of the accuracy of the cut(s) being made to the one or more bones. Accomplishing accurate cuts can be especially complicated where surgical procedures involve cutting one or more bones that are relatively small as compared to bones in other locations of a surgical patient's anatomy. Exemplary surgical procedures involving cuts to one or more relatively small bones can include surgical procedures involving a foot or hand. To help facilitate accurate cuts to one or more bones, it may be useful to position the one or more bones to be cut in a manner that is conducive to a particular cut.

SUMMARY

[0004] One embodiment includes a bone positioning device. The embodiment of the bone positioning device can include at least one fixation pin for attachment to a first bone and at least

one fixation pin for attachment to a second bone. A first block having at least one aperture can be included for slidably receiving a fixation pin(s), and a second block having at least one aperture can be included for slidably receiving a fixation pin(s). A multi-axis joint can connect the first block and the second block, where the multi-axis joint allows the first and second blocks to move with respect to each other about more than one axis.

[0005] Another embodiment includes a method for fixing an orientation of a first bone with respect to a second bone. The embodiment of the method can include attaching at least one fixation pin to a first bone and attaching at least one fixation pin to a second bone. At least one fixation pin can be inserted within a respective aperture of a first block, and at least one fixation pin can be inserted within a respective aperture of a second block. The first block can be positioned along and about the fixation pin(s) and a set screw(s) can be actuated to fix a position of the first block along and about the fixation pin(s), and similarly the second block can be positioned along and about the fixation pin(s) and a set screw(s) can be actuated to fix a position of the second block along and about the fixation pin(s). The position of the first block can be adjusted with respect to the second block about at least a first axis and a second axis. A set screw can be actuated to fix a position about the first axis, and a set screw can be actuated to fix a position about the second axis.

[0006] A further embodiment includes a bone cutting guide. The embodiment of the bone cutting guide can include a plate defining a plane, a block having a guiding surface integral with or coupled to the plate, with the guiding surface being parallel to the plane and being spaced laterally therefrom. A handle can also be included extending from the plate.

BRIEF DESCRIPTION OF THE DRAWINGS

[0007] The following drawings are illustrative of particular embodiments of the present invention and therefore do not limit the scope of the invention. The drawings are not necessarily to scale (unless so stated) and are intended for use in conjunction with the explanations in the following detailed description. Embodiments of the invention will hereinafter be described in conjunction with the appended drawings, wherein like numerals denote like elements.

[0008] Figure 1 is a perspective view of a bone positioning device according to an embodiment of the invention;

[0009] Figure 2 is a top plan view of the bone positioning device of Figure 1;

[0010] Figure 3 is a side plan view of the bone positioning device of Figure 1;

[0011] Figure 4 is a perspective cross-sectional view of the bone positioning device of Figure 1;

[0012] Figure 5 is a perspective view of a bone positioning device attached to bones in a skewed position according to an embodiment of the invention;

[0013] Figure 6 is a top view of the bone positioning device of Figure 5;

[0014] Figure 7 is a side view of the bone positioning device of Figure 5;

[0015] Figure 8 is a side view of the bone positioning device of Figure 5;

[0016] Figure 9 is a perspective view of a bone cutting guide according to an embodiment of the invention;

[0017] Figure 10 is a perspective view of a bone cutting guide according to an embodiment of the invention in contact with a saw blade; and

[0018] Figure 11 is a side plan view of the bone cutting guide and saw blade of Figure 10.

DETAILED DESCRIPTION

[0019] The following detailed description is exemplary in nature and is not intended to limit the scope, applicability, or configuration of the invention in any way. Rather, the following description provides some practical illustrations for implementing exemplary embodiments of the present invention. Examples of constructions, materials, dimensions, and manufacturing processes are provided for selected elements, and all other elements employ that which is known to those of ordinary skill in the field of the invention. Those skilled in the art will recognize that many of the noted examples have a variety of suitable alternatives.

[0020] Embodiments of the invention include a bone positioning device. Embodiments of the bone positioning device can be useful for temporarily fixing bones in a desired position during a surgical procedure, such as a bone alignment, osteotomy, and/or fusion procedure. Such a procedure may be performed, for example, on bones (e.g., adjacent bones separated by a joint or different portions of a single bone) in the foot or hand. In one example, the procedure can be performed to correct an alignment between a metatarsal (e.g. a first metatarsal) and a cuneiform (e.g., a first cuneiform), such as a bunion correction. An example of such a procedure is a Lapidus procedure. In another example, the procedure can be performed by modifying an alignment of a metatarsal (e.g. a first metatarsal). An example of such a procedure is a Basilar metatarsal osteotomy procedure.

[0021] As shown in Figures 1-4, the bone positioning device 10 can include at least one fixation pin, such as a first fixation pin 20, for attachment to a first bone 24. At least one fixation pin, such as a second fixation pin 30, can be provided for attachment to a second bone 34, such as an adjacent bone separated by a joint or different portions of a single bone. As shown best in Figure 4, a first block 40 having a first aperture 50 can slidably receive the first fixation pin 20, and a second block 60 having a second aperture 70 can slidably receive the second fixation pin 30. The first and second apertures 50, 70 can allow the first and second blocks 40, 60 to slide along a longitudinal axis of the first and second fixation pins 20, 30, respectively. The first and second apertures 50, 70 can also allow the first and second blocks 40, 60 to rotate about the longitudinal axis of the first and second fixation pins 20, 30, respectively. In some embodiments, each of the first and second fixation pins 20, 30 are generally cylindrical and have a distal portion and a proximal portion, with the distal portion threaded for retention within the respective first or second bone, while the proximal portion is unthreaded for both sliding within the respective first or second aperture and free rotational movement within the respective first or second aperture. In some embodiments, the proximal portion has a uniform diameter, such that it does not contain a flared or "head" portion. In such embodiments, the first and second blocks can be positioned on the first and second fixation pins before or after the pins are engaged with bone.

[0022] Again as shown best in Figure 4, a multi-axis joint 80 can be provided to connect the first block 40 and the second block 60 and located adjacent to a joint 84 between the first and second bones. In some embodiments, the multi-axis joint 80 allows the first block 40 and the second block 60 to move with respect to each other about more than one axis. In certain embodiments, the multi-axis joint 80 allows the first block 40 and the second block 60 to move with respect to each other about the three cardinal planes (i.e., X, Y, and Z axes). In the embodiment shown, the multi-axis joint 80 allows for angulation in all directions and rotation between the first and second blocks. Figures 5-8 depict an exemplary embodiment of the bone positioning device 10 attached to first and second bones 24, 34, where the first and second bones are skewed relative to each other. In this particular embodiment, a longitudinal axis of second bone 34 is skewed about 15 degrees relative to a longitudinal axis of first bone 24.

[0023] The multi-axis joint can include any suitable structure for allowing desired adjustments about more than one axis, such as desired adjustments about three axes. In some embodiments, with reference to Figure 4, the multi-axis joint 80 includes a link 90 having a first end 94

rotatably connected to the first block 40 and a second end 98 rotatably connected to the second block 60. Such a multi-axis joint allows for the movement about the various axes discussed above at both the first end and the second end. In the embodiment shown, the first end 94 includes a first ball received within a first socket of the first block 40, and the second end 98 includes a second ball received within a second socket of the second block 60.

[0024] Some embodiments of the device allow the relative positions of the first and second bones to be fixed after a desired orientation has been achieved. For example, a first set screw 100 can extend through the first block 40 into the first aperture 50 and be positioned against the first fixation pin 20, for fixation of the first block on a longitudinal axis of the first fixation pin and/or about the longitudinal axis of the first fixation pin. Further, a second set screw 110 can extend through the second block 60 into the second aperture 70 and be positioned against the second fixation pin 30, for fixation of the second block on a longitudinal axis of the second fixation pin and/or about the longitudinal axis of the second fixation pin. In certain embodiments, the first and second set screws are positioned perpendicular to the first and second fixation pins. As shown in Figures 1-3, additional set screws 120, 130 extending through the first and second blocks can be positioned opposite of the first and second set screws, respectively. Such oppositely positioned set screws may facilitate use of the bone positioning device on a left foot or a right foot depending on a particular surgical procedure.

[0025] Set screws can also be provided to fix positions across the multi-axis joint. In the embodiment shown in Figure 4, a first end set screw 140 extends through the first block 40 and is positioned against the first end 94 of the link 90. Further, a second end set screw 150 is shown extending through the second block 60 and positioned against the second end 98 of the link 90.

[0026] The set screws can include any structure suitable to fix the relative positions of the components described herein. In some embodiments, the set screws have a threaded connection with the blocks. Further, as shown, they can include a recess with a non-circular surface. Such a recess is useful for engagement with a driving tool, such as a hex-driver.

[0027] In some embodiments, the device can be used to apply a compression force between two adjacent bones, or different portions of a single bone, while the bones are held in desired alignment and/or to facilitate a desired alignment between the bones. Such a compression force is useful for certain surgical procedures, such as bone fusions. As shown in Figure 4, in some embodiments the device 10 includes a compression screw 160 operable to exert a compression

force between first and second bones 24, 34 connected to first and second fixation pins 20, 30, respectively. In the embodiment shown, the compression screw 160 is generally perpendicular to the fixation pins and is threadingly received within a block and positioned to act against one of the fixation pins.

[0028] One of the blocks can be adapted to allow for relative movement to exert the compression force. In the embodiment shown in Figure 4, one of the blocks (e.g., the first block 40) has a first portion 170 slidingly connected to second portion 180. An aperture (e.g., the first aperture 50) extends through the first portion and the second portion. In this embodiment, the first aperture has a first cross-sectional area in the first portion and a second cross-sectional area in the second portion, and the first cross-sectional area is smaller than the second cross-sectional area. The set screw 100 can extend through the first portion 170. The compression screw 160 can extend through the second portion 180. Upon actuation, the compression screw 160 will act against the fixation pin 20 and will pull the second portion 180 of the block 40 away from the fixation pin 20. The force will be transmitted through the multi-axis joint 80 through the other block 60 and fixation pin 30, thereby applying a compression force that tends to press together leading surfaces (e.g., interfacing surfaces) of the first and second bones 24, 34.

[0029] Some embodiments include a bone cutting guide. Such a guide can be useful for guiding the cutting of bone, such as after a position of the bone has been fixed by the device described above. Bone cutting may be useful, for example, to facilitate contact between leading edges of adjacent bones or different portions of a single bone, such as in a bone alignment and/or fusion procedure.

[0030] An embodiment of a bone cutting guide is shown in Figures 9-11. In the embodiment shown, the guide 200 includes a plate 210 that defines a plane, a block 230, and a handle 240 extending from the block 230. As shown, the handle extends from the block 230 at an angle of between 30 and 60 degrees (e.g., 45 degrees) with respect to the plane. The plate 210 can include a top edge, a bottom edge opposite of the top edge, and first and second opposite side surfaces. In the embodiment shown in Figure 9, the block 230 can include a surface 250 parallel to the plate 210 and offset from the plate by a distance (e.g., 1-20 millimeters). As shown in Figures 10 and 11, a cutting tool 260, such as a saw blade, may be placed in apposition to the surface 250 to guide cutting in a plane parallel to the plate and offset from it by a distance (e.g., a distance the surface 250 if offset from the plate 210).

[0031] In use, the bottom edge of the plate 210 can be placed such that it extends into a joint space or resected portion between the first bone 24 and a second bone 34. The surface 250 can provide a cutting tool guide surface operable to guide a cutting tool to cut a leading edge of a bone in a plane parallel to the plate 210.

[0032] Embodiments of the invention also include methods of temporarily fixing the orientation of a first bone with respect to a second bone, such as during a surgical procedure, using a bone positioning device. In some embodiments, the method includes a step of attaching a first fixation pin slidably and rotatingly received within a first aperture of a first block to a first bone and attaching a second fixation pin slidably and rotatingly received within a second aperture of a second block to a second bone. The method can also include the steps of positioning the first block along the first fixation pin and actuating a first set screw to fix a position of the first block along the first fixation pin. Likewise, the method can include the steps of positioning the second block along the second fixation pin and actuating a second set screw to fix a position of the second block along the second fixation pin. In some embodiments, the method can include the steps of adjusting the position of the first block with respect to the second block about at least a first axis and a second axis and actuating a third set screw to fix a position about the first axis and actuating a fourth set screw to fix a position about the second axis. In certain embodiments, the method can also include actuating a compression screw to apply a compression force between the first and second bones. It should be noted these steps need not be performed in the order stated, which is merely exemplary. For example, the second fixation pin may be attached to the second bone before the first fixation pin is attached to the first bone, both fixation pins may be attached before either block is adjusted or fixed, etc.

[0033] The method may also include steps following the fixing of the position of the bones. Some embodiments of the method also include imaging (e.g., with an X-ray) the first and second bones connected to the first and second blocks to confirm a desirable alignment. Certain embodiments of the method include fusing the first bone and the second bone, such as by attaching a bone connector (e.g., a plate, pin, screw, wire, or staple) to stably connect and fix the first bone and the second bone. Some embodiments also include the step of removing the first fixation pin from the first bone and the second fixation pin from the second bone, such as at a time after the bones have been stabilized and connected with a bone connector.

[0034] Some embodiments of the method also include cutting a leading edge of the first or second bone using a cutting guide, such as by positioning a cutting guide proximate the bone (e.g., within a joint between adjacent bones or a resected portion of a single bone) and using the guide to cut a leading edge of the bone in a plane. Such embodiments can also include the step of actuating a compression screw to apply a compression force between the first and second bones after the cutting step.

[0035] Thus, embodiments of the invention are disclosed. Although the present invention has been described with reference to certain disclosed embodiments, the disclosed embodiments are presented for purposes of illustration and not limitation and other embodiments of the invention are possible. One skilled in the art will appreciate that various changes, adaptations, and modifications may be made without departing from the spirit of the invention.

WHAT IS CLAIMED IS:

1. A bone positioning device, comprising:

a first fixation pin for attachment to a first bone;

a second fixation pin for attachment to a second bone;

a first block having a first aperture for slidably receiving the first fixation pin;

a second block having a second aperture for slidably receiving the second fixation pin; and

a multi-axis joint connecting the first block and the second block, the multi-axis joint allowing the first block and the second block to move with respect to each other about more than one axis.

2. The bone positioning device of claim 1, wherein the multi-axis joint further includes a link having a first end rotatably connected to the first block and a second end rotatably connected to the second block.

3. The bone positioning device of claim 2, wherein the first end includes a first ball received within a first socket of the first block, and the second end includes a second ball received within a second socket of the second block.

4. The bone positioning device of claim 2, further including a first end set screw extending through the first block and positioned against the first end.

5. The bone positioning device of claim 2, further including a second end set screw extending through the second block and positioned against the second end.

6. The bone positioning device of claim 1, further including a first set screw extending through the first block into the first aperture and positioned against the first fixation pin, and a second set screw extending through the second block into the second aperture and positioned against the second fixation pin.

7. The bone positioning device of claim 6, wherein the first and second set screws are positioned perpendicular to first and second fixation pins, respectively.

8. The bone positioning device of claim 1, further including a compression screw operable to exert a compression force between the first and second fixation pins.

9. The bone positioning device of claim 8, wherein the compression screw is positioned against one of the first or second fixation pins.

10. The bone positioning device of claim 8, wherein the first or second block has a first portion slidingly connected to second portion, the first aperture extending through the first portion and the second portion, the first aperture having a first cross-sectional area in the first portion and a second cross-sectional area in the second portion, the first cross-sectional area being smaller than the second cross-sectional area, and the compression screw extending through the second portion.

11. The bone positioning device of claim 10, wherein the first or second set screw extends through the first portion.

12. A method of fixing the orientation of a first bone with respect to a second bone, comprising the steps of:

attaching a first fixation pin to a first bone;

attaching a second fixation pin to a second bone;

inserting the first fixation pin within a first aperture of a first block;

inserting the second fixation pin within a second aperture of a second block;

positioning the first block along and about the first fixation pin;

actuating a first set screw to fix a position of the first block along and about the first fixation pin

positioning the second block along and about the second fixation pin;

actuating a second set screw to fix a position of the second block along and about the second fixation pin;

adjusting the position of the first block with respect to the second block about at least a first axis and a second axis;

actuating a third set screw to fix a position about the first axis; and

actuating a fourth set screw to fix a position about the second axis.

13. The method of claim 12, further including the step of actuating a compression screw to apply a compression force between the first and second bones and facilitate a desired alignment between first and second bones.

14. The method of claim 12, further including the step of imaging the first and second bones connected to the first and second blocks.

15. The method of claim 12, further including the step of positioning a cutting guide proximate a leading edge of the first or second bone, and cutting the bone with a cutting tool guided by the cutting guide.

16. The method of claim 15, further including the step of actuating a compression screw to apply a compression force between the first and second bones after the cutting step and facilitate a desired alignment between first and second bones.

17. The method of claim 12, further including the step of removing the first fixation pin from the first bone and the second fixation pin from the second bone after attaching a bone connector to the first and second bones.

18. The method of claim 12, wherein the first bone is a metatarsal and the second bone is a cuneiform.

19. The method of claim 12, wherein the first bone is a first portion of a metatarsal and the second bone is a second portion of the metatarsal.

20. A bone cutting guide, comprising;

a plate defining a plane;

a block having a guiding surface integral with or coupled to the plate, the guiding surface being parallel to the plane and being spaced laterally therefrom; and

a handle extending from the plate.

ABSTRACT

A bone positioning device can include a fixation pin for attachment to a first bone and a fixation pin for attachment to a second bone. A first block having an aperture can be included for slidably receiving a fixation pin, and a second block having an aperture can be included for slidably receiving a fixation pin. A multi-axis joint can connect the first block and the second block, where the multi-axis joint allows the first second blocks to move with respect to each other about more than one axis.

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	2	20110264149	A1	2011-10-27	PAPPALARDO et al.	
	3	20170056031	A1	2017-03-02	AWTREY et al.	

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	1	DAYTON et al., "Dorsal Suspension Stitch: An Alternative Stabilization After Flexor Tenotomy for Flexible Hammer Digit Syndrome," The Journal of Foot and Ankle Surgery, Vol. 48, No. 5, September/October 2009, pp. 602-605.	☐
	2	DAYTON et al., "The Extended Knee Hemilithotomy Position for Gastrocnemius Recession," The Journal of Foot and Ankle Surgery, Vol. 49, 2010, pp. 214-216.	☐
	3	WIENKE et al., "Bone Stimulation For Nonunions: What the Evidence Reveals," Podiatry Today, Vol. 24, No. 9, September 2011, pp. 52-57.	☐
	4	DAYTON et al., "Hallux Varus as Complication of Foot Compartment Syndrome," The Journal of Foot and Ankle Surgery, Vol. 50, 2011, pp. 504-506.	☐
	5	DAYTON et al., "Measurement of Mid-Calcaneal Length on Plain Radiographs: Reliability of a New Method," Foot and Ankle Specialist, Vol. 4, No. 5, October 2011, pp. 280-283.	☐
	6	DAYTON et al., "A User-Friendly Method of Pin Site Management for External Fixators," Foot and Ankle Specialist, September 16, 2011, 4 pages.	☐
	7	DAYTON et al., "Effectiveness of a Locking Plate in Preserving Midcalcaneal Length and Positional Outcome after Evans Calcaneal Osteotomy: A Retrospective Pilot Study," The Journal of Foot and Ankle Surgery, Vol. 52, 2013, pp. 710-713.	☐
	8	DAYTON et al., "Does Postoperative Showering or Bathing of a Surgical Site Increase the Incidence of Infection? A Systematic Review of the Literature," The Journal of Foot and Ankle Surgery, Vol. 52, 2013, pp. 612-614.	☐
	9	DAYTON et al., "Technique for Minimally Invasive Reduction of Calcaneal Fractures Using Small Bilateral External Fixation," The Journal of Foot and Ankle Surgery, Article in Press, 2014, 7 pages.	☐

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	
	Filing Date	
	First Named Inventor	Paul Dayton
	Art Unit	
	Examiner Name	
	Attorney Docket Number	71212.4.1.USC7

	10	DAYTON et al., "Clarification of the Anatomic Definition of the Bunion Deformity," The Journal of Foot and Ankle Surgery, Vol. 53, 2014, pp. 160-163.	☐
	11	DAYTON et al., "Observed Changes in Radiographic Measurements of the First Ray after Frontal Plane Rotation of the First Metatarsal in a Cadaveric Foot Model," The Journal of Foot and Ankle Surgery, Article in Press, 2014, 5 pages.	☐
	12	DAYTON et al., "Observed Changes in First Metatarsal and Medial Cuneiform Positions after First Metatarsophalangeal Joint Arthrodesis," The Journal of Foot and Ankle Surgery, Vol. 53, 2014, pp. 32-35.	☐
	13	DAYTON et al., "Reduction of the Intermetatarsal Angle after First Metatarsal Phalangeal Joint Arthrodesis: A Systematic Review," The Journal of Foot and Ankle Surgery, Article in Press, 2014, 4 pages.	☐
	14	FEILMEIER et al., "Reduction of Intermetatarsal Angle after First Metatarsophalangeal Joint Arthrodesis in Patients with Hallux Valgus," The Journal of Foot and Ankle Surgery, Vol. 53, 2014, pp. 29-31.	☐
	15	DAYTON et al., "Principles of Management of Growth Plate Fractures in the Foot and Ankle," Clinics in Podiatric Medicine and Surgery, Pediatric Foot Deformities, October 2013, 17 pages.	☐
	16	DAYTON et al., "Observed Changes in Radiographic Measurements of the First Ray after Frontal and Transverse Plane Rotation of the Hallux: Does the Hallux Drive the Metatarsal in a Bunion Deformity?," The Journal of Foot and Ankle Surgery, Article in Press, 2014, 4 pages.	☐
	17	RODRIGUEZ et al., "Ilizarov method of fixation for the management of pilon and distal tibial fractures in the compromised diabetic patient: A technique guide," The Foot and Ankle Journal Online, Vol. 7, No. 2, 2014, 9 pages.	☐
	18	FEILMEIER et al., "Incidence of Surgical Site Infection in the Foot and Ankle with Early Exposure and Showering of Surgical Sites: A Prospective Observation," The Journal of Foot and Ankle Surgery, Vol. 53, 2014, pp. 173-175.	☐
	19	CATANESE et al., "Measuring Sesamoid Position in Hallux Valgus: When Is the Sesamoid Axial View Necessary," Foot and Ankle Specialist, 2014, 3 pages.	☐
	20	DAYTON et al., "Comparison of Complications for Internal and External Fixation for Charcot Reconstruction: A Systematic Review," The Journal of Foot and Ankle Surgery, Article in Press, 2015, 4 pages.	☐

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	Application Number	
	Filing Date	
	First Named Inventor	Paul Dayton
	Art Unit	
	Examiner Name	
	Attorney Docket Number	71212.4.1.USC7

	21	DAYTON et al., “A new triplanar paradigm for bunion management,” Lower Extremity Review, April 2015, 9 pages.	☐
	22	DAYTON et al., "American College of Foot and Ankle Surgeons' Clinical Consensus Statement: Perioperative Prophylactic Antibiotic Use in Clean Elective Foot Surgery," The Journal of Foot and Ankle Surgery, Article in Press, 2015, 7 pages.	☐
	23	DAYTON et al., "Complications of Metatarsal Suture Techniques for Bunion Correction: A Systematic Review of the Literature," The Journal of Foot and Ankle Surgery, Article in Press, 2015, 3 pages.	☐
	24	DeCARBO et al., "The Weil Osteotomy: A Refresher," Techniques in Foot and Ankle Surgery, Vol. 13, No. 4, December 2014, pp. 191-198.	☐
	25	DeCARBO et al., "Resurfacing Interpositional Arthroplasty for Degenerative Joint Diseas of the First Metatarsalphalangeal Joint," Podiatry Management, January 2013, pp. 137-142.	☐
	26	DeCARBO et al., "Locking Plates: Do They Prevent Complications?," Podiatry Today, April 2014, 7 pages.	☐
	27	EASLEY et al., "Current Concepts Review: Hallux Valgus Part II: Operative Treatment," Foot and Ankle International, Vol. 28, No. 6, June 2007, pp. 748-758.	☐
	28	KIM et lal., "A Multicenter Retrospective Review of Outcomes for Arthrodesis, Hemi-Metallic Joint Implant, and Resectional Arthroplasty in the Surgical Treatment of End-Stage Hallux Rigidus," The Journal of Foot and Ankle Surgery, Vol. 51, 2012, pp. 50-56.	☐
	29	EASLEY et al., "Current Concepts Review: Hallux Valgus Part I: Pathomechanics, Clinical Assessment, and Nonoperative Management," Foot and Ankle International, Vol. 28, No. 5, May 2007, pp. 654-659.	☐
	30	SANDHU et al., "Digital Arthrodesis With a One-Piece Memory Nitinol Intramedullary Fixation Device: A Retrospective Review," Foot and Ankle Specialist, Vol. 6, No. 5, October 2013, pp. 364-366.	☐
	31	WEBER et al., "Use of the First Ray Splay Test to Assess Transverse Plane Instability Before First Metatarsocuneiform Fusion," The Journal of Foot and Ankle Surgery, Vol. 45, No. 4, July/August 2006, pp. 278-282.	☐

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	
	Filing Date	
	First Named Inventor	Paul Dayton
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	Examiner Name	
	Attorney Docket Number	71212.4.1.USC7

	32	SMITH et al., "Opening Wedge Osteotomies for Correction of Hallux Valgus: A Review of Wedge Plate Fixation," Foot and Ankle Specialist, Vol. 2, No. 6, December 2009, pp. 277-282.	☐
	33	EASLEY et al., "What is the Best Treatment for Hallux Valgus?," Evidence-Based Orthopaedics - The Best Answers to Clinical Questions, Chapter 73, 2009, pp. 479-491.	☐
	34	SHURNAS et al., "Proximal Metatarsal Opening Wedge Osteotomy," Operative Techniques in Foot and Ankle Surgery, Section I, Chapter 13, 2011, pp. 73-78.	☐
	35	COETZEE et al., "Revision Hallux Valgus Correction," Operative Techniques in Foot and Ankle Surgery, Section I, Chapter 15, 2011, pp. 84-96.	☐
	36	LE et al., "Tarsometatarsal Arthrodesis," Operative Techniques in Foot and Ankle Surgery, Section II, Chapter 40, 2011, pp. 281-285.	☐
	37	COLLAN et al., "The biomechanics of the first metatarsal bone in hallux valgus: A preliminary study utilizing a weight bearing extremity CT," Foot and Ankle Surgery, Vol. 19, 2013, pp. 155-161.	☐
	38	EUSTACE et al., "Hallux valgus, first metatarsal pronation and collapse of the medial longitudinal arch - a radiological correlation," Skeletal Radiology, Vol. 23, 1994, pp. 191-194.	☐
	39	MIZUNO et al., "Detorsion Osteotomy of the First Metatarsal Bone in Hallux Valgus," Japanese Orthopaedic Association, Tokyo, 1956; 30:813-819.	☐
	40	OKUDA et al., "The Shape of the Lateral Edge of the First Metatarsal Head as a Risk Factor for Recurrence of Hallux Valgus," The Journal of Bone and Joint Surgery, Vol. 89, 2007, pp. 2163-2172.	☐
	41	OKUDA et al., "Proximal Metatarsal Osteotomy for Hallux Valgus: Comparison of Outcome for Moderate and Severe Deformities," Foot and Ankle International," Vol. 29, No. 7, July 2008, pp. 664-670.	☐
	42	D'AMICO et al., "Motion of the First Ray: Clarification Through Investigation," Journal of the American Podiatry Association, Vol. 69, No. 1, January 1979, pp. 17-23.	☐

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	
	Filing Date	
	First Named Inventor	Paul Dayton
	Art Unit	
	Examiner Name	
	Attorney Docket Number	71212.4.1.USC7

	43	GROVES, "Operative Report," St. Tammany Parish Hospital, Date of Procedure, March 26, 2014, 2 pages.	☐
	44	Claim Chart for Groves Public Use (March 26, 2014), Exhibit B4 of Defendant Fusion Orthopedics LLC's Invalidity Contentions, No. CV-22-00490-PHX-SRB, US District Court for the District of Arizona, August 27, 2022, 161 pages.	☐

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[1] See Kind Codes of USPTO Patent Documents at www.USPTO.GOV or MPEP 901.04. [2] Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). [3] For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. [4] Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. [5] Applicant is to place a check mark here if English language translation is attached.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	
	Filing Date	
	First Named Inventor	Paul Dayton
	Art Unit	
	Examiner Name	
	Attorney Docket Number	71212.4.1.USC7

CERTIFICATION STATEMENT

Please see 37 CFR 1.97 and 1.98 to make the appropriate selection(s):

☐ That each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(1).

OR

☐ That no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(2).

☐ See attached certification statement.

☐ The fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

☒ A certification statement is not submitted herewith.

SIGNATURE

A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

Signature	/Paul J. LaVanway, Jr./	Date (YYYY-MM-DD)	2024-03-25
Name/Print	Paul J. LaVanway, Jr.	Registration Number	64610

This collection of information is required by 37 CFR 1.97 and 1.98. 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 1 hour 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.**

Privacy Act Statement

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

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

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

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

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

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

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

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

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

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

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

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	71212.4.1.USC7
	Application Number	
Title of Invention	BONE POSITIONING AND CUTTING SYSTEM AND METHOD	

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
	Paul		Dayton	

Residence Information (Select One) ◉ US Residency ○ Non US Residency ○ Active US Military Service

City	Ankeny	State/Province	IA	Country of Residence	US

Mailing Address of Inventor:

Address 1	5713 NE Sherman CT		
Address 2			
City	Ankeny	State/Province	IA
Postal Code	50021	Country	US

Inventor 2 Remove

Legal Name

Prefix	Given Name	Middle Name	Family Name	Suffix
	F.	Barry	Bays	

Residence Information (Select One) ◉ US Residency ○ Non US Residency ○ Active US Military Service

City	Collierville	State/Province	TN	Country of Residence	US

Mailing Address of Inventor:

Address 1	3044 Shea Road		
Address 2			
City	Collierville	State/Province	TN
Postal Code	38017	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).

PTO/AIA/14 (01-22)
Approved for use through 05/31/2024. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	71212.4.1.USC7
	Application Number	
Title of Invention	BONE POSITIONING AND CUTTING SYSTEM AND METHOD	

☐ An Address is being provided for the correspondence Information of this application.			
Customer Number	22859		
Email Address	IP@fredlaw.com	Add Email	Remove Email

Application Information:

Title of the Invention	BONE POSITIONING AND CUTTING SYSTEM AND METHOD		
Attorney Docket Number	71212.4.1.USC7	**Small Entity Status Claimed**	☐
Application Type	Nonprovisional		
Subject Matter	Utility		
Total Number of Drawing Sheets (if any)	11	**Suggested Figure for Publication (if any)**	

Filing By Reference:

Only complete this section when filing an application by reference under 35 U.S.C. 111(c) and 37 CFR 1.57(a). Do not complete this section if application papers including a specification and any drawings are being filed. Any domestic benefit or foreign priority information must be provided in the appropriate section(s) below (i.e., "Domestic Benefit/National Stage Information" and "Foreign Priority Information").

For the purposes of a filing date under 37 CFR 1.53(b), the description and any drawings of the present application are replaced by this reference to the previously filed application, subject to conditions and requirements of 37 CFR 1.57(a).

Application number of the previously filed application	Filing date (YYYY-MM-DD)	Intellectual Property Authority or Country

Publication Information:

☐ Request Early Publication (Fee required at time of Request 37 CFR 1.219)

☐ **Request Not to Publish.** I hereby request that the attached application not be published under 35 U.S.C. 122(b) and certify that the invention disclosed in the attached application **has not and will not** be the subject of an application filed in another country, or under a multilateral international agreement, that requires publication at eighteen months after filing.

Representative Information:

Representative information should be provided for all practitioners having a power of attorney in the application. Providing this information in the Application Data Sheet does not constitute a power of attorney in the application (see 37 CFR 1.32).
Either enter Customer Number or complete the Representative Name section below. If both sections are completed the customer Number will be used for the Representative Information during processing.

Please Select One:	◉ Customer Number	○ US Patent Practitioner	○ Limited Recognition (37 CFR 11.9)
Customer Number	22859		

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	71212.4.1.USC7
	Application Number	
Title of Invention	BONE POSITIONING AND CUTTING SYSTEM AND METHOD	

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	17503730	2021-10-18

Prior Application Status	Patented				Remove
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)	Patent Number	Issue Date (YYYY-MM-DD)
17503730	Continuation of	17201008	2021-03-15	11147590	2021-10-19

Prior Application Status	Patented				Remove
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)	Patent Number	Issue Date (YYYY-MM-DD)
17201008	Continuation of	16730424	2019-12-30	10945764	2021-03-16

Prior Application Status	Patented				Remove
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)	Patent Number	Issue Date (YYYY-MM-DD)
16730424	Continuation of	15894702	2018-02-12	10555757	2020-02-11

Prior Application Status	Abandoned		Remove
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)
15894702	Division of	14799981	2015-07-15
Prior Application Status	Expired		Remove
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)
14799981	Claims benefit of provisional	62024546	2014-07-15

Additional Domestic Benefit/National Stage Data may be generated within this form by selecting the **Add** button. Add

Foreign Priority Information:

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	71212.4.1.USC7
	Application Number	
Title of Invention	BONE POSITIONING AND CUTTING SYSTEM AND METHOD	

This section allows for the applicant to claim priority to a foreign application. Providing this information in the application data sheet constitutes the claim for priority as required by 35 U.S.C. 119(b) and 37 CFR 1.55. When priority is claimed to a foreign application that is eligible for retrieval under the priority document exchange program (PDX)[i] the information will be used by the Office to automatically attempt retrieval pursuant to 37 CFR 1.55(i)(1) and (2). Under the PDX program, applicant bears the ultimate responsibility for ensuring that a copy of the foreign application is received by the Office from the participating foreign intellectual property office, or a certified copy of the foreign priority application is filed, within the time period specified in 37 CFR 1.55(g)(1).

Remove

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

Additional Foreign Priority Data may be generated within this form by selecting the **Add** button. Add

Statement under 37 CFR 1.55 or 1.78 for AIA (First Inventor to File) Transition Applications

☐ This application (1) claims priority to or the benefit of an application filed before March 16, 2013 and (2) also contains, or contained at any time, a claim to a claimed invention that has an effective filing date on or after March 16, 2013.
NOTE: By providing this statement under 37 CFR 1.55 or 1.78, this application, with a filing date on or after March 16, 2013, will be examined under the first inventor to file provisions of the AIA.

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	71212.4.1.USC7
	Application Number	
Title of Invention	BONE POSITIONING AND CUTTING SYSTEM AND METHOD	

Authorization or Opt-Out of Authorization to Permit Access:

When this Application Data Sheet is properly signed and filed with the application, applicant has provided written authority to permit a participating foreign intellectual property (IP) office access to the instant application-as-filed (see paragraph A in subsection 1 below) and the European Patent Office (EPO) access to any search results from the instant application (see paragraph B in subsection 1 below).

Should applicant choose not to provide an authorization identified in subsection 1 below, applicant **must opt-out** of the authorization by checking the corresponding box A or B or both in subsection 2 below.

NOTE: This section of the Application Data Sheet is **ONLY** reviewed and processed with the **INITIAL** filing of an application. After the initial filing of an application, an Application Data Sheet cannot be used to provide or rescind authorization for access by a foreign IP office(s). Instead, Form PTO/SB/39 or PTO/SB/69 must be used as appropriate.

1. Authorization to Permit Access by a Foreign Intellectual Property Office(s)

A. Priority Document Exchange (PDX) - Unless box A in subsection 2 (opt-out of authorization) is checked, the undersigned hereby **grants the USPTO authority** to provide the European Patent Office (EPO), the Japan Patent Office (JPO), the Korean Intellectual Property Office (KIPO), the State Intellectual Property Office of the People's Republic of China (SIPO), the World Intellectual Property Organization (WIPO), and any other foreign intellectual property office participating with the USPTO in a bilateral or multilateral priority document exchange agreement in which a foreign application claiming priority to the instant patent application is filed, access to: (1) the instant patent application-as-filed and its related bibliographic data, (2) any foreign or domestic application to which priority or benefit is claimed by the instant application and its related bibliographic data, and (3) the date of filing of this Authorization. See 37 CFR 1.14(h)(1).

B. Search Results from U.S. Application to EPO - Unless box B in subsection 2 (opt-out of authorization) is checked, the undersigned hereby **grants the USPTO authority** to provide the EPO access to the bibliographic data and search results from the instant patent application when a European patent application claiming priority to the instant patent application is filed. See 37 CFR 1.14(h)(2).

The applicant is reminded that the EPO's Rule 141(1) EPC (European Patent Convention) requires applicants to submit a copy of search results from the instant application without delay in a European patent application that claims priority to the instant application.

2. Opt-Out of Authorizations to Permit Access by a Foreign Intellectual Property Office(s)

☐ A. Applicant **DOES NOT** authorize the USPTO to permit a participating foreign IP office access to the instant application-as-filed. If this box is checked, the USPTO will not be providing a participating foreign IP office with any documents and information identified in subsection 1A above.

☐ B. Applicant **DOES NOT** authorize the USPTO to transmit to the EPO any search results from the instant patent application. If this box is checked, the USPTO will not be providing the EPO with search results from the instant application.

NOTE: Once the application has published or is otherwise publicly available, the USPTO may provide access to the application in accordance with 37 CFR 1.14.

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	71212.4.1.USC7
	Application Number	
Title of Invention	BONE POSITIONING AND CUTTING SYSTEM AND METHOD	

Applicant Information:

Providing assignment information in this section does not substitute for compliance with any requirement of part 3 of Title 37 of CFR to have an assignment recorded by the Office.

Applicant 1 Remove

If the applicant is the inventor (or the remaining joint inventor or inventors under 37 CFR 1.45), this section should not be completed. The information to be provided in this section is the name and address of the legal representative who is the applicant under 37 CFR 1.43; or the name and address of the assignee, person to whom the inventor is under an obligation to assign the invention, or person who otherwise shows sufficient proprietary interest in the matter who is the applicant under 37 CFR 1.46. If the applicant is an applicant under 37 CFR 1.46 (assignee, person to whom the inventor is obligated to assign, or person who otherwise shows sufficient proprietary interest) together with one or more joint inventors, then the joint inventor or inventors who are also the applicant should be identified in this section.

Clear

◉ Assignee	○ Legal Representative under 35 U.S.C. 117	○ Joint Inventor
○ Person to whom the inventor is obligated to assign.	○ Person who shows sufficient proprietary interest	

If applicant is the legal representative, indicate the authority to file the patent application, the inventor is:

Name of the Deceased or Legally Incapacitated Inventor:

If the Applicant is an Organization check here. ☒

Organization Name	Treace Medical Concepts, Inc.

Mailing Address Information For Applicant:

Address 1	100 Palmetto Park Place		
Address 2			
City	Ponte Vedra	**State/Province**	FL
Country	US	Postal Code	32081
Phone Number		Fax Number	
Email Address			

Additional Applicant Data may be generated within this form by selecting the Add button. Add

Assignee Information including Non-Applicant Assignee Information:

Providing assignment information in this section does not substitute for compliance with any requirement of part 3 of Title 37 of CFR to have an assignment recorded by the Office.

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	71212.4.1.USC7
	Application Number	
Title of Invention	BONE POSITIONING AND CUTTING SYSTEM AND METHOD	

Assignee 1

Complete this section if assignee information, including non-applicant assignee information, is desired to be included on the patent application publication. An assignee-applicant identified in the "Applicant Information" section will appear on the patent application publication as an applicant. For an assignee-applicant, complete this section only if identification as an assignee is also desired on the patent application publication.

Remove

If the Assignee or Non-Applicant Assignee is an Organization check here. ☐

Prefix	**Given Name**	Middle Name	**Family Name**	Suffix

Mailing Address Information For Assignee including Non-Applicant Assignee:

Address 1			
Address 2			
City		**State/Province**	
Country		Postal Code	
Phone Number		Fax Number	
Email Address			

Additional Assignee or Non-Applicant Assignee Data may be generated within this form by selecting the Add button. Add

Signature:

Remove

NOTE: This Application Data Sheet must be signed in accordance with 37 CFR 1.33(b). **However, if this Application Data Sheet is submitted with the INITIAL filing of the application and either box A or B is not checked in subsection 2 of the "Authorization or Opt-Out of Authorization to Permit Access" section, then this form must also be signed in accordance with 37 CFR 1.14(c).**

This Application Data Sheet **must** be signed by a patent practitioner if one or more of the applicants is a **juristic entity** (e.g., corporation or association). If the applicant is two or more joint inventors, this form must be signed by a patent practitioner, **all** joint inventors who are the applicant, or one or more joint inventor-applicants who have been given power of attorney (e.g., see USPTO Form PTO/AIA/81) on behalf of **all** joint inventor-applicants.

See 37 CFR 1.4(d) for the manner of making signatures and certifications.

Signature	/Paul J. LaVanway, Jr./			Date (YYYY-MM-DD)	2024-03-25
First Name	Paul J.	Last Name	LaVanway, Jr.	Registration Number	64610

Additional Signature may be generated within this form by selecting the Add button. Add

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	71212.4.1.USC7
	Application Number	
Title of Invention	BONE POSITIONING AND CUTTING SYSTEM AND METHOD	

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

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

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

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

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

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

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

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

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

PTO/AIA/01 (05-12)
Approved for use through 11/30/2020. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

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

Title of Invention	BONE POSITIONING AND CUTTING SYSTEM AND METHOD

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 16/730,424

filed on 12-30-2019.

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: Paul Dayton Date (Optional): 2/4/2020

Signature:

Note: An application data sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form or must have been previously filed. Use an additional PTO/AIA/01 form for each additional inventor.

This collection of information is required by 35 U.S.C. 115 and 37 CFR 1.63. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 1 minute to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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

PTO/AIA/01 (06-12)
Approved for use through 11/30/2020. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

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

Title of Invention	BONE POSITIONING AND CUTTING SYSTEM AND METHOD

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 16/730,424

filed on 12-30-2019.

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.

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LEGAL NAME OF INVENTOR

Inventor: F. Barry Bays Date (Optional): 02/12/2020

Signature: F. Barry Bays

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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	Filing Date	
	First Named Inventor	Paul Dayton
	Art Unit	
	Examiner Name	
	Attorney Docket Number	71212.4.1.USC7

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Examiner Initial*	Cite No	Patent Number	Kind Code[1]	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	10470779	B2	2019-11-12	Fallin et al.	
	2	8858602	B2	2014-10-14	Weiner et al.	
	3	8882778	B2	2014-11-11	Ranft	
	4	8882816	B2	2014-11-11	Kartalian et al.	
	5	8900247	B2	2014-12-02	Tseng et al.	
	6	8906026	B2	2014-12-09	Ammann et al.	
	7	D 720456	S	2014-12-30	Dacosta et al.	
	8	8945132	B2	2015-02-03	Plassy et al.	

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	9	8998903	B2	2015-04-07	Price et al.	
	10	8998904	B2	2015-04-07	Zeetser et al.	
	11	9023052	B2	2015-05-05	Lietz et al.	
	12	9044250	B2	2015-06-02	Olsen et al.	
	13	9060822	B2	2015-06-23	Lewis et al.	
	14	9089376	B2	2015-07-28	Medoff et al.	
	15	9107715	B2	2015-08-18	Blitz et al.	
	16	9113920	B2	2015-08-25	Ammann et al.	
	17	D 740424	S	2015-10-06	Dacosta et al.	
	18	D 765844	S	2016-09-06	DaCosta	
	19	D 766434	S	2016-09-13	DaCosta	

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	20	D 766437	S	2016-09-13	DaCosta	
	21	D 766438	S	2016-09-13	DaCosta	
	22	D 766439	S	2016-09-13	DaCosta	
	23	9522023	B2	2016-11-08	Haddad et al.	
	24	9750538	B2	2017-09-05	Soffiatti et al.	
	25	9785747	B2	2017-10-10	Geebelen	
	26	10028750	B2	2018-07-24	Rose	
	27	10064631	B2	2018-09-04	Dacosta et al.	
	28	10159499	B2	2018-12-25	Dacosta et al.	
	29	10292713	B2	2019-05-21	Fallin et al.	
	30	8888785	B2	2014-11-18	AMMANN et al.	

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	31	9101421	B2	2015-08-11	BLACKLIDGE	
	32	10327829	B2	2019-06-25	DACOSTA et al.	
	33	5417694	A	1995-05-23	MARIK et al.	

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	1	20170042598	A1	2017-02-16	Santrock et al.	
	2	20170042599	A1	2017-02-16	Bays et al.	
	3	20170079669	A1	2017-03-23	Bays et al.	
	4	20170143511	A1	2017-05-25	Cachia	
	5	20140276815	A1	2014-09-18	Riccione	
	6	20140276853	A1	2014-09-18	Long et al.	

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	7	20140277176	A1	2014-09-18	Buchanan et al.	
	8	20140288562	A1	2014-09-25	Von Zabern et al.	
	9	20140296995	A1	2014-10-02	Reiley et al.	
	10	20140303621	A1	2014-10-09	Gerold et al.	
	11	20140336658	A1	2014-11-13	Luna et al.	
	12	20140343555	A1	2014-11-20	Russi et al.	
	13	20150032168	A1	2015-01-29	Orsak et al.	
	14	20170164989	A1	2017-06-15	WEINER et al.	
	15	20150045839	A1	2015-02-12	DACOSTA et al.	
	16	20150051650	A1	2015-02-19	VERSTREKEN et al.	
	17	20150057667	A1	2015-02-26	Ammann et al.	

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	18	20150066094	A1	2015-03-05	Prandi et al.	
	19	20150112446	A1	2015-04-23	Melamed et al.	
	20	20150119944	A1	2015-04-30	Geldwert	
	21	20150142064	A1	2015-05-21	Perez et al.	
	22	20150150608	A1	2015-06-04	Sammarco	
	23	20150182273	A1	2015-07-02	Stemniski et al.	
	24	20150223851	A1	2015-08-13	Hill et al.	
	25	20150245858	A1	2015-09-03	Weiner et al.	
	26	20150045801	A1	2015-02-12	AXELSON JR et al.	
	27	20160022315	A1	2016-01-28	SOFFIATTI et al.	
	28	20160151165	A1	2016-06-02	Fallin et al.	

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	29	20160175089	A1	2016-06-23	Fallin et al.	
	30	20160192950	A1	2016-07-07	Dayton et al.	
	31	20160199076	A1	2016-07-14	Fallin et al.	
	32	20160213384	A1	2016-07-28	Fallin et al.	
	33	20160235414	A1	2016-08-18	Hatch et al.	
	34	20160242791	A1	2016-08-25	Fallin et al.	
	35	20160256204	A1	2016-09-08	PATEL et al.	
	36	20160324532	A1	2016-11-10	MONTOYA et al.	
	37	20160354127	A1	2016-12-08	Lundquist et al.	
	38	20020099381	A1	2002-07-25	MARONEY	
	39	20080172054	A1	2008-07-17	CLAYPOOL et al.	

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	40	20180344334	A1	2018-12-06	KIM et al.	
	41	20120330135	A1	2012-12-27	MILLAHN et al.	
	42	20130096563	A1	2013-04-18	MEADE et al.	

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	1	2014511207	JP	A	2014-05-15	Webber		☐
	2	2014521384	JP	A	2014-08-28	Iannotti, et al.		☐
	3	100904142	KR	B1	2009-06-15	Warburton, et al.		☐
	4	2098036	RU	C1	1997-12-10	Skvortsov, et al.		☐
	5	2195892	RU	C2	2003-01-10	Kotel, et al.		☐
	6	2320287	RU	C1	2008-03-27	Ezhov		☐

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	7	2321369	RU	C1	2008-04-10	Valiakhmetov, et al.		☐
	8	2321366	RU	C2	2008-04-10	Kotel, et al.		☐
	9	2346663	RU	C2	2009-02-20	Barinov, et al.		☐
	10	2412662	RU	C1	2011-02-27	Zyrjanov, et al.		☐
	11	1333328	SU	A2	1987-08-30	Nadgertsev, et al.		☐
	12	0166022	WO	A1	2001-09-13	Pinczewski et al.		☐
	13	03075775	WO	A1	2003-09-18	KUPA PRAEZ SMASCHINEN GES M B		☐
	14	2004089227	WO	A2	2004-10-21	KUHN		☐
	15	2008051064	WO	A1	2008-05-02	Jose		☐
	16	2009029798	WO	A1	2009-03-05	ACUMED LLC		☐
	17	2009032101	WO	A2	2009-03-12	Simon		☐

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	Attorney Docket Number	71212.4.1.USC7

	18	2011037885	WO	A1	2011-03-31	Sand, et al.		☐
	19	2012029008	WO	A1	2012-03-08	Herzog et al.		☐
	20	2013090392	WO	A1	2013-06-20	Sammarco		☐
	21	2013134387	WO	A1	2013-09-12	Elghazaly		☐
	22	2013169475	WO	A1	2013-11-14	Neal, et al.		☐
	23	2014022055	WO	A1	2014-02-06	O'Connell, et al.		☐
	24	2014020561	WO	A1	2014-02-06	Honiball		☐
	25	2014035991	WO	A1	2014-03-06	Lang		☐
	26	2014085882	WO	A1	2014-06-12	Angeli		☐
	27	2014152535	WO	A1	2014-09-25	Mcginley, et al.		☐
	28	2014152219	WO	A2	2014-09-25	Dacosta, et al.		☐

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	29	2014147099	WO	A1	2014-09-25	Claes, et al.		☐
	30	2014177783	WO	A1	2014-11-06	Leemrijse, et al.		☐
	31	2014200017	WO	A1	2014-12-18	Tanji		☐
	32	2015094409	WO	A1	2015-06-25	PARAGON 28, INC.		☐
	33	2015105880	WO	A1	2015-07-16	Montoya, et al.		☐
	34	2015127515	WO	A2	2015-09-03	Verstreken, et al.		☐
	35	2016134160	WO	A1	2016-08-25	TREACE MEDICAL CONCEPTS INC		☐
	36	200903719	IN	P1	2009-06-08	Hasselman		☐
	37	200904479	IN	P2	2010-05-21	Auger, et al.		☐
	38	140/DELNP/2012	IN	P1	2013-02-01	Johnson, et al.		☐
	39	2004/KOLNP/2013	IN	P2	2013-11-01	Stemniski, et al.		☐

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	40	4162380	JP	B2	2008-10-08	Michael, et al.		☐
	41	4796943	JP	B2	2011-10-19	Yoshimura, et al.		☐
	42	5466647	JP	B2	2014-04-09	Fox		☐
	43	5628875	JP	B2	2014-11-19	Matsugaritei, et al.		☐
	44	S635739	JP	A	1988-01-11	KYOCERA CORP	English Machine Translation Submitted	☐
	45	2004174265	JP	A	2004-06-24	ZIMMER TECH INC	English Abstract Submitted	☐

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	1	NAGY et al., "The AO Ulnar Shortening Osteotomy System Indications and Surgical Technique," Journal of Wrist Surgery, Vol. 3, No. 2, 2014, pp. 91–97.	☐
	2	NexFix from Nexa Orthopedics, MetaFix I from Merete Medical, Inc. and The BioPro Lower Extremities from BioPro, found in Foot & Ankle International Journal, Vol. 28, No. 1, January 2007, 4 pages.	☐
	3	ODENBRING et al., "A guide instrument for high tibial osteotomy," Acta Orthopaedica Scandinavica, Vol. 60, No. 4, 1989, pp. 449–451.	☐

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
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	Filing Date	
	First Named Inventor	Paul Dayton
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	Attorney Docket Number	71212.4.1.USC7

	4	OKUDA et al., “Postoperative Incomplete Reduction of the Sesamoids as a Risk Factor for Recurrence of Hallux Valgus,” The Journal of Bone and Joint Surgery, Vol. 91-A, No. 1, July 2009, pp. 1637-1645.	☐
	5	OSHER et al., "Accurate Determination of Relative Metatarsal Protrusion with a Small Intermetatarsal Angle: A Novel Simplified Method," The Journal of Foot & Ankle Surgery, Vol. 53, No. 5, September/October 2014, published online: June 3, 2014, pp. 548-556.	☐
	6	OTSUKI et al., “Developing a novel custom cutting guide for curved per-acetabular osteotomy,” International Orthopaedics (SICOT), Vol. 37, 2013, pp. 1033–1038.	☐
	7	PATEL et al., "Modified Lapidus Arthrodesis: Rate of Nonunion in 227 Cases," The Journal of Foot & Ankle Surgery, Vol. 43, No. 1, January/February 2004, pp. 37-42.	☐
	8	“Patient to Patient Precision, Accu-Cut, Osteotomy Guide System,” BioPro, Foot & Ankle International Journal, Vol. 23, No. 8, August 2002, 2 pages.	☐
	9	PETERS et al., “Flexor Hallucis Longus Tendon Laceration as a Complication of Total Ankle Arthroplasty,” Foot & Ankle International, Vol. 34, No. 1, 2013, pp. 148–149.	☐
	10	“Prophecy Inbone Preoperative Navigation Guides,” Wright Medical Technology, Inc., November 2013, 6 pages.	☐
	11	“RAYHACK Ulnar Shortening Generation II Low-Profile Locking System Surgical Technique,” Wright Medical Technology, Inc., December 2013, 20 pages.	☐
	12	Rx-Fix Mini Rail External Fixator, Wright Medical Technology, Brochure, August 15, 2014, 2 pages.	☐
	13	SALTZMAN et al., “Prospective Controlled Trial of STAR Total Ankle Replacement Versus Ankle Fusion: Initial Results,” Foot & Ankle International, Vol. 30, No. 7, July 2009, pp. 579–596.	☐
	14	SCANLAN et al. "Technique Tip: Subtalar Joint Fusion Using a Parallel Guide and Double Screw Fixation," The Journal of Foot and Ankle Surgery, Vol. 49, Issue 3, May-June 2010, pp. 305-309, (Abstract Only).	☐

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	Filing Date	
	First Named Inventor	Paul Dayton
	Art Unit	
	Examiner Name	
	Attorney Docket Number	71212.4.1.USC7

	15	SCRANTON JR. et al, “Anatomic Variations in the First Ray: Part I. Anatomic Aspects Related to Bunion Surgery,” Clinical Orthopaedics and Related Research, Vol. 151, September 1980, pp. 244-255.	☐
	16	SIDDIQUI et al. "Fixation Of Metatarsal Fracture With Bone Plate In A Dromedary Heifer," Open Veterinary Journal, Vol. 3, No. 1, 2013, pp. 17-20.	☐
	17	SIDEKICK STEALTH Rearfoot Fixator, Wright Medical Technology, Surgical Technique, December 2, 2013, 20 pages.	☐
	18	SIMPSON et al., "Computer-Assisted Distraction Ostegogenesis By Ilizarov's Method," International Journal of Medical Robots and Computer Assisted Surgery, Vol. 4, No. 4, December 2008, pp. 310-320, (Abstract Only).	☐
	19	Small Bone External Fixation System, Acumed, Surgical Technique, Effective date September 2014, 8 pages.	☐
	20	“Smith & Nephew scores a HAT-TRICK with its entry into the high-growth hammer toe repair market,” Smith & Nephew, July 31, 2014, 2 pages.	☐
	21	Stableloc External Fixation System, Acumed, Product Overview, Effective date September 2015, 4 pages.	☐
	22	STAHL et al., "Derotation Of Post-Traumatic Femoral Deformities By Closed Intramedullary Sawing," Injury, Vol. 37, No. 2, February 2006, pp.145-151, (Abstract Only).	☐
	23	TALBOT et al.,” Assessing Sesamoid Subluxation: How Good is the AP Radiograph?,” Foot and Ankle International, Vol. 19, No. 8, August 1998, pp. 547-554.	☐
	24	TempFix Spanning the Ankle Joint Half Pin and Transfixing Pin Techniques, Biomet Orthopedics, Surgical Technique, 2012, 16 pages.	☐
	25	TOTH et al., "The Effect of First Ray Shortening in the Development of Metatarsalgia in the Second Through Fourth Rays After Metatarsal Osteotomy," Foot & Ankle International, Vol. 28, No. 1, January 2007, pp. 61-63.	☐

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	Attorney Docket Number	71212.4.1.USC7

	26	TRICOT et al., "3D-corrective osteotomy using surgical guides for posttraumatic distal humeral deformity," Acta Orthopaedica Belgica, Vol. 78, No. 4, 2012, pp. 538–542.	☐
	27	VITEK et al., "Die Behandlung des Hallux rigidus mit Cheilektomie und Akin-Moberg-Osteotomie unter Verwendung einer neuen Schnittlehre und eines neuen Schraubensystems," Orthopadische Praxis, Vol. 44, November 2008, pp. 563–566, including English Abstract on page 564.	☐
	28	VITEK, "Neue Techniken in der Fußchirurgie Das V-tek-System," ABW Wissenschaftsverlag GmbH, 2009, 11 pages, including English Abstract.	☐
	29	WEBER et al., "A Simple System For Navigation Of Bone Alignment Osteotomies Of The Tibia," International Congress Series, Vol. 1268, January 2004, pp. 608-613, (Abstract Only).	☐
	30	WEIL et al., "Anatomic Plantar Plate Repair Using the Weil Metatarsal Osteotomy Approach," Foot & Ankle Specialist, Vol. 4, No. 3, 2011, pp. 145-150.	☐
	31	WENDL et al., "Navigation in der Knieendoprothetik," OP-Journal, Vol. 17, 2002, pp. 22–27, including English Abstract.	☐
	32	WHIPPLE et al., "Zimmer Herbert Whipple Bone Screw System: Surgical Techniques for Fixation of Scaphoid and Other Small Bone Fractures," Zimmer, 2003, 59 pages.	☐
	33	YAKACKI et al. "Compression Forces of Internal and External Ankle Fixation Devices with Simulated Bone Resorption," Foot and Ankle International, Vol. 31, No. 1, January 2010, pp. 76-85, (Abstract Only).	☐

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CERTIFICATION STATEMENT

Please see 37 CFR 1.97 and 1.98 to make the appropriate selection(s):

☐ That each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(1).

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☐ See attached certification statement.

☐ The fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

☒ A certification statement is not submitted herewith.

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A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

Signature	/Paul J. LaVanway, Jr./	Date (YYYY-MM-DD)	2024-03-25
Name/Print	Paul J. LaVanway, Jr.	Registration Number	64610

This collection of information is required by 37 CFR 1.97 and 1.98. 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 1 hour 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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ELECTRONIC PAYMENT RECEIPT

APPLICATION #	RECEIPT DATE / TIME	ATTORNEY DOCKET #
18/615,875	**03/25/2024 06:30:52 PM Z ET**	**71212.4.1.USC7**

Title of Invention

BONE POSITIONING AND CUTTING SYSTEM AND METHOD

Application Information

APPLICATION TYPE	Utility - Nonprovisional Application under 35 USC 111(a)	PATENT #	-
CONFIRMATION #	8549	FILED BY	Paul LaVanway
PATENT CENTER #	64829646	AUTHORIZED BY	Paul LaVanway
CUSTOMER #	22859	FILING DATE	-
CORRESPONDENCE ADDRESS	-	FIRST NAMED INVENTOR	Paul Dayton

Payment Information

PAYMENT METHOD	PAYMENT TRANSACTION ID	PAYMENT AUTHORIZED BY
CARD / 9797	**E20243OI31146108**	**Paul LaVanway**

FEE CODE	DESCRIPTION	ITEM PRICE($)	QUANTITY	ITEM TOTAL($)
1817	REQUEST FOR PRIORITIZED EXAMINATION	4200.00	1	4200.00
1111	UTILITY PATENT APPL. SEARCH FEE	700.00	1	700.00
1011	BASIC FILING FEE - UTILITY (PAPER FILING ALSO REQUIRES NON-ELECTRONIC FILING FEE UNDER 1.16(T))	320.00	1	320.00
1311	PATENT APPL. EXAMINATION FEE	800.00	1	800.00
			TOTAL AMOUNT:	**$6,020.00**

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized

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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 filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application

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

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

New International Application Filed with the USPTO as a Receiving Office

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

Doc Code: TRACK1.REQ
Document Description: TrackOne Request

PTO/AIA/424 (11-23)

CERTIFICATION AND REQUEST FOR PRIORITIZED EXAMINATION UNDER 37 CFR 1.102(e) (Page 1 of 1)

First Named Inventor:	Paul Dayton	Nonprovisional Application Number (if known):	
Title of Invention:	BONE POSITIONING AND CUTTING SYSTEM AND METHOD		

APPLICANT HEREBY CERTIFIES THE FOLLOWING AND REQUESTS PRIORITIZED EXAMINATION FOR THE ABOVE-IDENTIFIED APPLICATION.

1. The processing fee set forth in 37 CFR 1.17(i)(1) and the prioritized examination fee set forth in 37 CFR 1.17(c) have been filed with the request. The publication fee requirement is met because that fee, set forth in 37 CFR 1.18(d), is currently $0. The basic filing fee, search fee, and examination fee are filed with the request or have been already been paid. I understand that any required excess claims fees or application size fee must be paid for the application.

2. I understand that the application may not contain, or be amended to contain, more than four independent claims, more than thirty total claims, or any multiple dependent claims, and that any request for an extension of time will cause an outstanding Track I request to be dismissed.

3. The applicable box is checked below:

I. ☑ Original Application (Track One) - Prioritized Examination under § 1.102(e)(1)

i. (a) The application is an original nonprovisional utility application filed under 35 U.S.C. 111(a). This certification and request is being filed with the utility application via USPTO patent electronic filing system.

---OR---

(b) The application is an original nonprovisional plant application filed under 35 U.S.C. 111(a). This certification and request is being filed with the plant application in paper.

ii. An executed inventor's oath or declaration under 37 CFR 1.63 or 37 CFR 1.64 for each inventor, **or** the application data sheet meeting the conditions specified in 37 CFR 1.53(f)(3)(i) is filed with the application.

II. ☐ Request for Continued Examination - Prioritized Examination under § 1.102(e)(2)

i. A request for continued examination has been filed with, or prior to, this form.
ii. If the application is a utility application, this certification and request is being filed via USPTO patent electronic filing system.
iii. The application is an original nonprovisional utility application filed under 35 U.S.C. 111(a), or is a national stage entry under 35 U.S.C. 371.
iv. This certification and request is being filed prior to the mailing of a first Office action responsive to the request for continued examination.
v. No prior request for continued examination has been granted prioritized examination status under 37 CFR 1.102(e)(2).

Signature /Paul J. LaVanway, Jr./	Date March 25, 2024
Name (Print/Typed) Paul J. LaVanway, Jr.	Practitioner Registration Number 64610

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

☑ *Total of 1 forms are submitted.

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6) a court, magistrate, or administrative tribunal, in the course of presenting evidence, including disclosures to opposing counsel in the course of settlement negotiations;

7) the Administrator, General Services Administration (GSA), or their designee, during an inspection of records conducted by GSA under authority of 44 U.S.C. 2904 and 2906, in accordance with the GSA regulations and any other relevant (i.e., GSA or Commerce) directive, where such disclosure shall not be used to make determinations about individuals;

8) 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));

9) the Office of Personnel Management (OPM) for personnel research purposes; and

10) the Office of Management and Budget (OMB) for legislative coordination and clearance.

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PTO/SB/08a (01-22)
Approved for use through 05/31/2024. OMB 0651-0031
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT
(Not for submission under 37 CFR 1.99)

Application Number	
Filing Date	
First Named Inventor	Paul Dayton
Art Unit	
Examiner Name	
Attorney Docket Number	71212.4.1.USC7

U.S.PATENTS Remove

Examiner Initial*	Cite No	Patent Number	Kind Code[1]	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	4754746	A	1988-07-05	COX	
	2	5586564	A	1996-12-24	BARRETT et al.	
	3	7097647	B2	2006-08-29	SEGLER et al.	
	4	7153310	B2	2006-12-26	RALPH et al.	
	5	9452057	B2	2016-09-27	DACOSTA et al.	
	6	9980760	B2	2018-05-29	DACOSTA et al.	
	7	10376268	B2	2019-08-13	FALLIN et al.	
	8	11304705	B2	2022-04-19	FALLIN et al.	

If you wish to add additional U.S. Patent citation information please click the Add button. Add

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
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Examiner Initial*	Cite No	Publication Number	Kind Code[1]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	20050267482	A1	2005-12-01	HYDE JR.	
	2	20120303033	A1	2012-11-29	WEINER et al.	
	3	20130150900	A1	2013-06-13	HADDAD et al.	
	4	20140350561	A1	2014-11-27	DACOSTA et al.	
	5	20160135858	A1	2016-05-19	DACOSTA et al.	
	6	20180132868	A1	2018-05-17	DACOSTA et al.	

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	1	3023068	EP	A2	2016-05-25	PARAGON 28 INC		☐
	2	756	MD	Z	2014-11-30	CIOBANU et al.		☒

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	3	2008537498	JP	A	2008-09-18	QUANTUM ORTHOPEDICS	English Abstract Submitted	☐
	4	H0531116	JP	A	1993-02-09	HOWMEDICA INC	English Abstract Submitted	☐
	5	103735306	CN	A	2014-04-23	DENG	English Abstract Submitted	☐

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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, pages(s), volume-issue number(s), publisher, city and/or country where published.	T[5]
	1	Defendant Fusion Orthopedics LLC's Invalidity Contentions, No. CV-22-00490-PHX-SRB, US District Court for the District of Arizona, August 27, 2022, 41 pages.	☐
	2	Prior Art Publications, Exhibit A of Defendant Fusion Orthopedics LLC's Invalidity Contentions, No. CV-22-00490-PHX-SRB, US District Court for the District of Arizona, August 27, 2022, 3 pages.	☐
	3	Claim Chart for Fishco, "Making the Lapidus Easy," The Podiatry Institute (April 2014), Exhibit B1 of Defendant Fusion Orthopedics LLC's Invalidity Contentions, No. CV-22-00490-PHX-SRB, US District Court for the District of Arizona, August 27, 2022, 97 pages.	☐
	4	Claim Chart for Fishco, "A Straightforward Guide to the Lapidus Bunionectomy," HMP Global (September 6, 2013), Exhibit B2 of Defendant Fusion Orthopedics LLC's Invalidity Contentions, No. CV-22-00490-PHX-SRB, US District Court for the District of Arizona, August 27, 2022, 67 pages.	☐
	5	Claim Chart for Groves, "Functional Position Joint Sectioning: Pre-Load Method for Lapidus Arthrodesis," Update 2015: Proceedings of the Annual Meeting of the Podiatry Institute, Chpt. 6, pp. 23-29 (April 2015), Exhibit B3 of Defendant Fusion Orthopedics LLC's Invalidity Contentions, No. CV-22-00490-PHX-SRB, US District Court for the District of Arizona, August 27, 2022, 151 pages.	☐
	6	Claim Chart for Mote, "First Metatarsal-Cuneiform Arthrodesis for the Treatment of First Ray Pathology: A Technical Guide," The Journal Foot & Ankle Surgery (September 1, 2009), Exhibit B5 of Defendant Fusion Orthopedics LLC's Invalidity Contentions, No. CV-22-00490-PHX-SRB, US District Court for the District of Arizona, August 27, 2022, 21 pages.	☐

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	7	Claim Chart for US Pat. No. 10,376,268 to Fallin et al., entitled "Indexed Tri-Planar Osteotomy Guide and Method," issued August 13, 2019, Exhibit B6 of Defendant Fusion Orthopedics LLC's Invalidity Contentions, No. CV-22-00490-PHX-SRB, US District Court for the District of Arizona, August 27, 2022, 155 pages.	☐
	8	Claim Chart for US Pat. No. 8,282,645 to Lawrence et al., entitled "Metatarsal Bone Implant Cutting Guide," issued January 18, 2010, Exhibit B7 of Defendant Fusion Orthopedics LLC's Invalidity Contentions, No. CV-22-00490-PHX-SRB, US District Court for the District of Arizona, August 27, 2022, 76 pages.	☐
	9	Claim Chart for US Pat. No. 9,452,057 to Dacosta et al., entitled "Bone Implants and Cutting Apparatuses and Methods," issued April 8, 2011, Exhibit B8 of Defendant Fusion Orthopedics LLC's Invalidity Contentions, No. CV-22-00490-PHX-SRB, US District Court for the District of Arizona, August 27, 2022, 110 pages.	☐
	10	Obviousness Chart, Exhibit C of Defendant Fusion Orthopedics LLC's Invalidity Contentions, No. CV-22-00490-PHX-SRB, US District Court for the District of Arizona, August 27, 2022, 153 pages.	☐
	11	"Foot and Ankle Instrument Set," Smith & Nephew, 2013, 2 pages.	☐
	12	"Lapidus Pearls: Gaining Joint Exposure to Decrease Non-Union," Youtube, Retrieved online from <https://www.youtube.com/watch?v=-jqJyE7pj-Y>, dated November 2, 2009, 3 pages.	☐
	13	"Reconstructive Surgery of the Foot & Ankle," The Podiatry Institute, Update 2015, Conference Program, May 2015, 28 pages.	☐
	14	"Speed Continuous Active Compression Implant," BioMedical Enterprises, Inc., A120-029 Rev. 3, 2013, 4 pages.	☐
	15	"Visionaire: Patient Matched Cutting Blocks Surgical Procedure," Smith & Nephew, Inc., 2009, 2 pages.	☐
	16	ARTHREX, "Comprehensive Foot System," Retrieved online from <https://www.arthrex.com/resources/animation/8U3iaPvY6kO8bwFAwZF50Q/comprehensive-foot-system?referringTeam=foot_and_ankle>, dated August 27, 2013, 3 pages.	☐
	17	BARAVARIAN, "Why the Lapidus Procedure is Ideal for Bunions," Podiatry Today, Retrieved online from <https://www.hmpgloballearhmpgloballe.com/site/podipodi/article/5542>, dated May 2006, 8 pages.	☐

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	18	BAUER et al., "Offset-V Osteotomy of the First Metatarsal Shaft in Hallux Abducto Valgus," McGlamry's Comprehensive Textbook of Foot and Ankle Surgery, Fourth Edition, Vol. 1, Chapter 29, 2013, 26 pages.	☐
	19	COTTOM, "Fixation of the Lapidus Arthrodesis with a Plantar Interfragmentary Screw and Medial Low Profile Locking Plate," The Journal of Foot & Ankle Surgery, Vol. 51, 2012, pp. 517–522.	☐
	20	COUGHLIN, "Fixation of the Lapidus Arthrodesis with a Plantar Interfragmentary Screw and Medial Low Profile Locking Plate,"Orthopaedics and Traumatology, Vol. 7, 1999, pp. 133–143.	☐
	21	DAYTON et al., "Observed Changes in Radiographic Measurements of the First Ray after Frontal Plane Rotation of the First Metatarsal in a Cadaveric Foot Model," The Journal of Foot & Ankle Surgery, Vol. 53, 2014, pp. 274–278.	☐
	22	DAYTON et al., "Relationship of Frontal Plane Rotation of First Metatarsal to Proximal Articular Set Angle and Hallux Alignment in Patients Undergoing Tarsometatarsal Arthrodesis for Hallux Abducto Valgus: A Case Series and Critical Review of the Literature," The Journal of Foot & Ankle Surgery, 2013, Article in Press, March 1, 2013, 7 pages.	☐
	23	DiDOMENICO et al., "Lapidus Bunionectomy: First Metatarsal-Cuneiform Arthrodesis," McGlamry's Comprehensive Textbook of Foot and Ankle Surgery, Fourth Edition, Vol. 1, Chapter 31, 2013, 24 pages.	☐
	24	FALLIN et al., US Provisional Application Entitled INDEXED TRI-PLANAR OSTEOTOMY GUIDE AND METHOD, US Pat. App. No. 62/118,378, filed February 19, 2015, 62 pages.	☐
	25	FISHCO, "A Straightforward Guide To The Lapidus Bunionectomy,"Podiatry Today, Retrieved online from <https:// www.hmpgloballearningnetwork.com/site/podiatry/blogged/straightforward-guide-lapidus-bunionectomy>, dated September 6, 2013, 5 pages.	☐
	26	FISHCO, "Making the Lapidus Easy," The Podiatry Institute, Update 2014, Chapter 14, 2014, pp. 91–93.	☐
	27	FLEMING et al., "Results of Modified Lapidus Arthrodesis Procedure Using Medial Eminence as an Interpositional Autograft," The Journal of Foot & Ankle Surgery, Vol. 50, 2011, pp. 272–275.	☐
	28	FUHRMANN, "Arthrodesis of the First Tarsometatarsal Joint for Correction of the Advanced Splayfoot Accompanied by a Hallux Valgus," Operative Orthopadie und Traumatologie, No. 2, 2005, pp. 195–210.	☐

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	29	GERARD et al., "The Modified Lapidus Procedure," Orthopedics, Vol. 31, No. 3, March 2008, 7 pages.	☐
	30	GIANNOUDIS et al., "Hallux Valgus Correction," Practical Procedures in Elective Orthopaedic Surgery, Pelvis and Lower Extremity, Chapter 38, 2012, 22 pages.	☐
	31	GREINER, "The Jargon of Pedal Movements," Foot & Ankle International, Vol. 28, No. 1, January 2007, pp. 109–125.	☐
	32	GROVES, "Functional Position Joint Sectioning: Pre-Load Method for Lapidus Arthrodesis," The Podiatry Institute, Update 2015, Chapter 6, 2015, pp. 23–29.	☐
	33	HARDY et al., "Observations on Hallux Valgus," The Journal of Bone and Joint Surgery, Vol. 33B, No. 3, August 1951, pp. 376–391.	☐
	34	HOLMES, Jr., "Correction of the Intermetatarsal Angle Component of Hallux Valgus Using Fiberwire-Attached Endo-buttons," Revista Internacional de Ciencias Podologicas, Vol. 6, No. 2, 2012, pp. 73–79.	☐
	35	Integra, "Integra Large Qwix Positioning and Fixation Screw, Surgical Technique," 2012, 16 pages.	☐
	36	KILMARTIN et al., "Combined rotation scarf and Akin osteotomies for hallux valgus: a patient focused 9 year follow up of 50 patients," Journal of Foot and Ankle Research, Vol. 3, No. 2, 2010, 12 pages.	☐
	37	LEE et al., "Technique Tip: Lateral Soft-Tissue Release for Correction of Hallux Valgus Through a Medial Incision Using A Dorsal Flap Over the First Metatarsal," Foot & Ankle International, Vol. 28, No. 8, August 2007, pp. 949–951.	☐
	38	MOTE et al., "First Metatarsal-Cuneiform Arthrodesis for the Treatment of First Ray Pathology: A Technical Guide," JFAS Techniques Guide, Vol. 48, No. 5, September/October 2009, pp. 593–601.	☐
	39	MYERSON, "Cuneiform-Metatarsal Arthrodesis," The Foot and Ankle, Chapter 9, 1997, pp. 107–117.	☐

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	40	SAMMARCO, "Surgical Strategies: Mau Osteotomy for Correction of Moderate and Severe Hallux Valgus Deformity," Foot & Ankle International, Vol. 28, No. 7, July 2007, pp. 857–864.	☐
	41	SCHON et al., "Cuneiform-Metatarsal Arthrodesis for Hallux Valgus,"The Foot and Ankle, Second Edition, Chapter 8, 2002, pp. 99–117.	☐
	42	SOKOLOFF, "Lapidus Procedure," Textbook of Bunion Surgery, Chapter 15, 1981, pp. 277–287.	☐
	43	STAMATIS et al., "Mini Locking Plate as “Medial Buttress” for Oblique Osteotomy for Hallux Valgus," Foot & Ankle International, Vol. 31, No. 10, October 2010, pp. 920–922.	☐
	44	STEWART, "Use for BME Speed Nitinol Staple Fixation for the Lapidus Procedure," date unknown, 1 page.	☐
	45	WUKICH et al., "Hypermobility of the First Tarsometatarsal Joint," Foot and Ankle Clinics, Vol. 10, No. 1, March 2005, pp. 157–166.	☐
	46	DAYTON et al., "Biwinged Excision for Round Pedal Lesions," The Journal of Foot and Ankle Surgery, Vol. 35, No. 3, 1996, pp. 244-249.	☐
	47	DAYTON et al., "Medial Incision Approach to the First Metatarsophalangeal Joint," The Journal of Foot and Ankle Surgery, Vol. 40, No. 6, November/December 2001, pp. 414-417.	☐
	48	DAYTON et al., "Reduction of the Intermetatarsal Angle after First Metatarsophalangeal Joint Arthrodesis in Patients with Moderate and Severe Metatarsus Primus Adductus," The Journal of Foot and Ankle Surgery, Vol. 41, No. 5, September/October 2002, pp. 316-319.	☐
	49	DAYTON et al., "Use of the Z Osteotomy for Tailor Bunionectomy," The Journal of Foot and Ankle Surgery, Vol. 42, No. 3, May/June 2003, pp. 167-169.	☐
	50	DAYTON et al., "Early Weightbearing After First Metatarsophalangeal Joint Arthrodesis: A Retrospective Observational Case Analysis," The Journal of Foot and Ankle Surgery, Vol. 43, No. 3, May/June 2004, pp. 156-159.	☐

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	Art Unit	
	Examiner Name	
	Attorney Docket Number	71212.4.1.USC7

If you wish to add additional non-patent literature document citation information please click the Add button Add			
EXAMINER SIGNATURE			
Examiner Signature		Date Considered	
*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through a citation if not in conformance and not considered. Include copy of this form with next communication to applicant.			

[1] See Kind Codes of USPTO Patent Documents at www.USPTO.GOV or MPEP 901.04. [2] Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). [3] For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. [4] Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. [5] Applicant is to place a check mark here if English language translation is attached.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	
	Filing Date	
	First Named Inventor	Paul Dayton
	Art Unit	
	Examiner Name	
	Attorney Docket Number	71212.4.1.USC7

CERTIFICATION STATEMENT

Please see 37 CFR 1.97 and 1.98 to make the appropriate selection(s):

☐ That each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(1).

OR

☐ That no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(2).

☐ See attached certification statement.

☐ The fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

☒ A certification statement is not submitted herewith.

SIGNATURE

A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

Signature	/Paul J. LaVanway, Jr./	Date (YYYY-MM-DD)	2024-03-25
Name/Print	Paul J. LaVanway, Jr.	Registration Number	64610

This collection of information is required by 37 CFR 1.97 and 1.98. 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 1 hour 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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1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether the Freedom of Information Act requires disclosure of these record s.

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

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

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

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

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

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ELECTRONIC ACKNOWLEDGEMENT RECEIPT

APPLICATION #	RECEIPT DATE / TIME	ATTORNEY DOCKET #
18/615,875	**03/25/2024 06:30:52 PM Z ET**	**71212.4.1.USC7**

Title of Invention

BONE POSITIONING AND CUTTING SYSTEM AND METHOD

Application Information

APPLICATION TYPE	Utility - Nonprovisional Application under 35 USC 111(a)	PATENT #	-
CONFIRMATION #	8549	FILED BY	Paul LaVanway
PATENT CENTER #	64829646	FILING DATE	-
CUSTOMER #	22859	FIRST NAMED INVENTOR	Paul Dayton
CORRESPONDENCE ADDRESS	-	AUTHORIZED BY	Paul LaVanway

Documents

TOTAL DOCUMENTS: 12

DOCUMENT	PAGES	DESCRIPTION	SIZE (KB)
71212_4_1_USC7_ADS_03252024.pdf	9	Application Data Sheet	2174 KB
71212_4_1_USC7_Track_One_Request_03252024.pdf	2	Track One Request	174 KB
71212_4_1_USC7_Application_03252024-APP.TEXT.docx	13	Application body structured text document	38 KB
Warning: Bookmarks were found and have been removed.			
71212_4_1_USC7_Application_03252024.pdf	13	Auxiliary PDF of Application	114 KB
71212_4_1_USC7_Declarations_03252024.pdf	2	Oath or Declaration filed	243 KB
71212_4_1_USC7_POA_032	3	Power of Attorney	2047 KB

52024.pdf

71212_4_1_USC7_Figures_03252024.pdf	11	Drawings-other than black and white line drawings	1199 KB
71212_4_1_USC7_IDS_Comm_03252024.pdf	1	Transmittal Letter	134 KB
71212_4_1_USC7_IDS2_03252024.pdf	17	Information Disclosure Statement (IDS) Form (SB08)	1016 KB
71212_4_1_USC7_IDS3_03252024.pdf	10	Information Disclosure Statement (IDS) Form (SB08)	1238 KB
71212_4_1_USC7_IDS1_03252024.pdf	40	Information Disclosure Statement (IDS) Form (SB08)	1023 KB
71212_4_1_USC7_IDS4_03252024.pdf	8	Information Disclosure Statement (IDS) Form (SB08)	1237 KB

Digest

DOCUMENT	MESSAGE DIGEST(SHA-512)
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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 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.

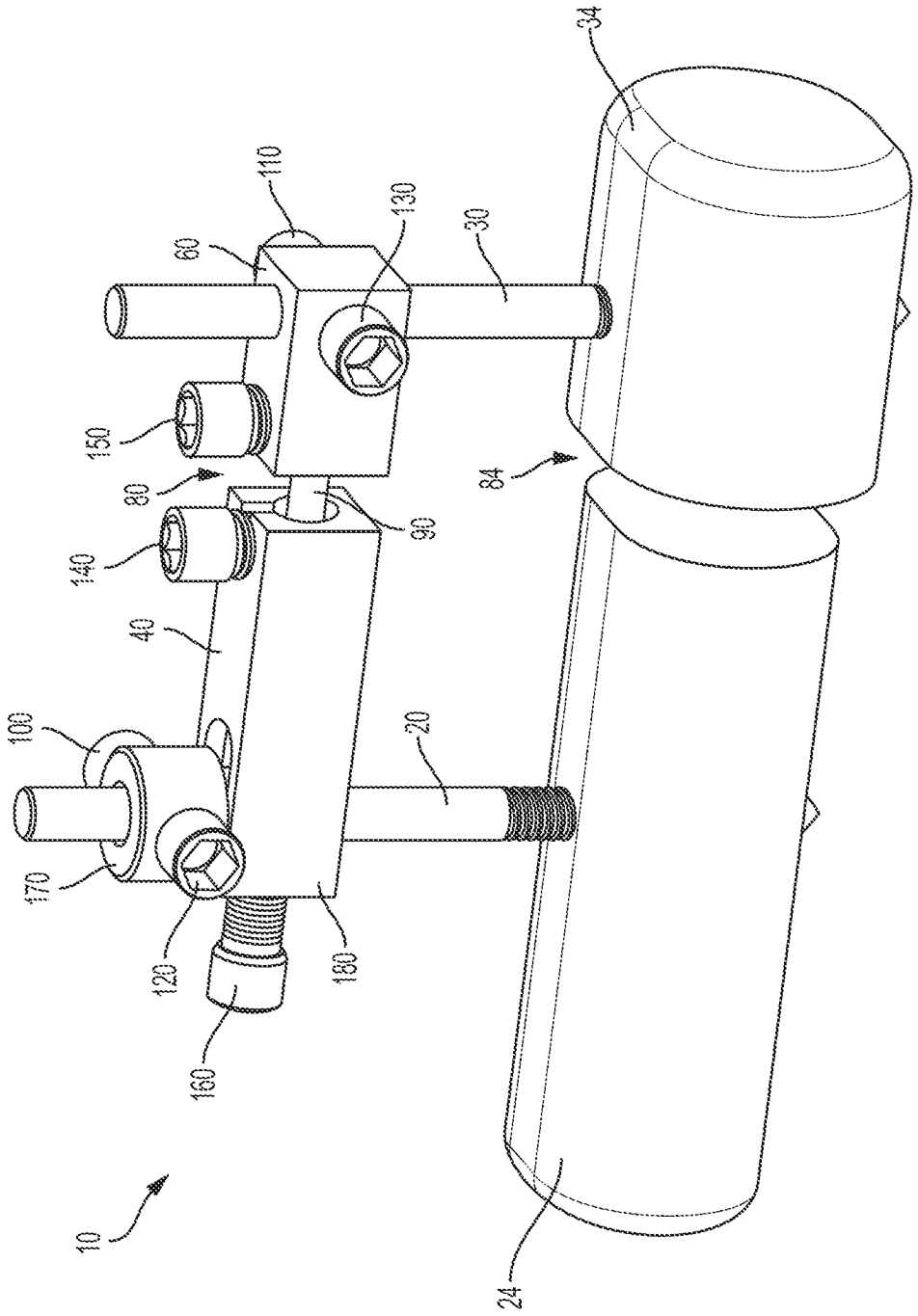


FIG. 1

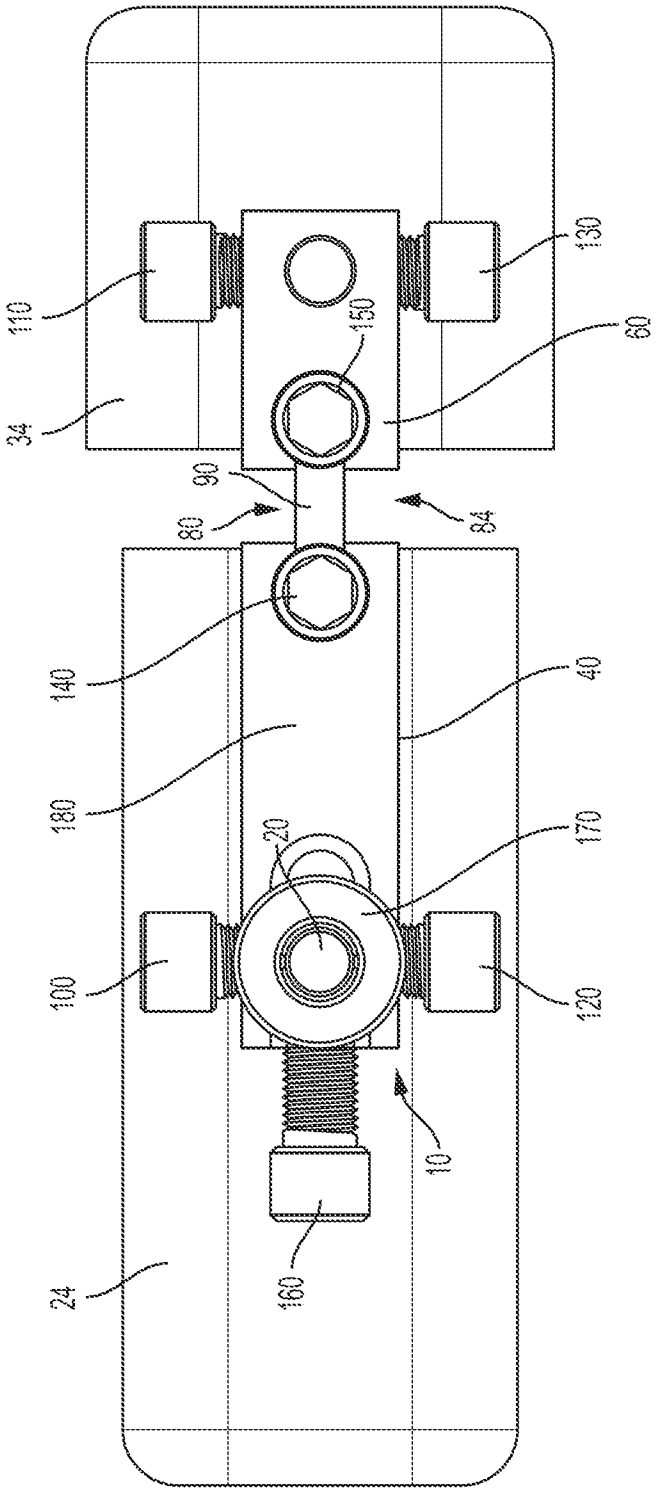


FIG. 2

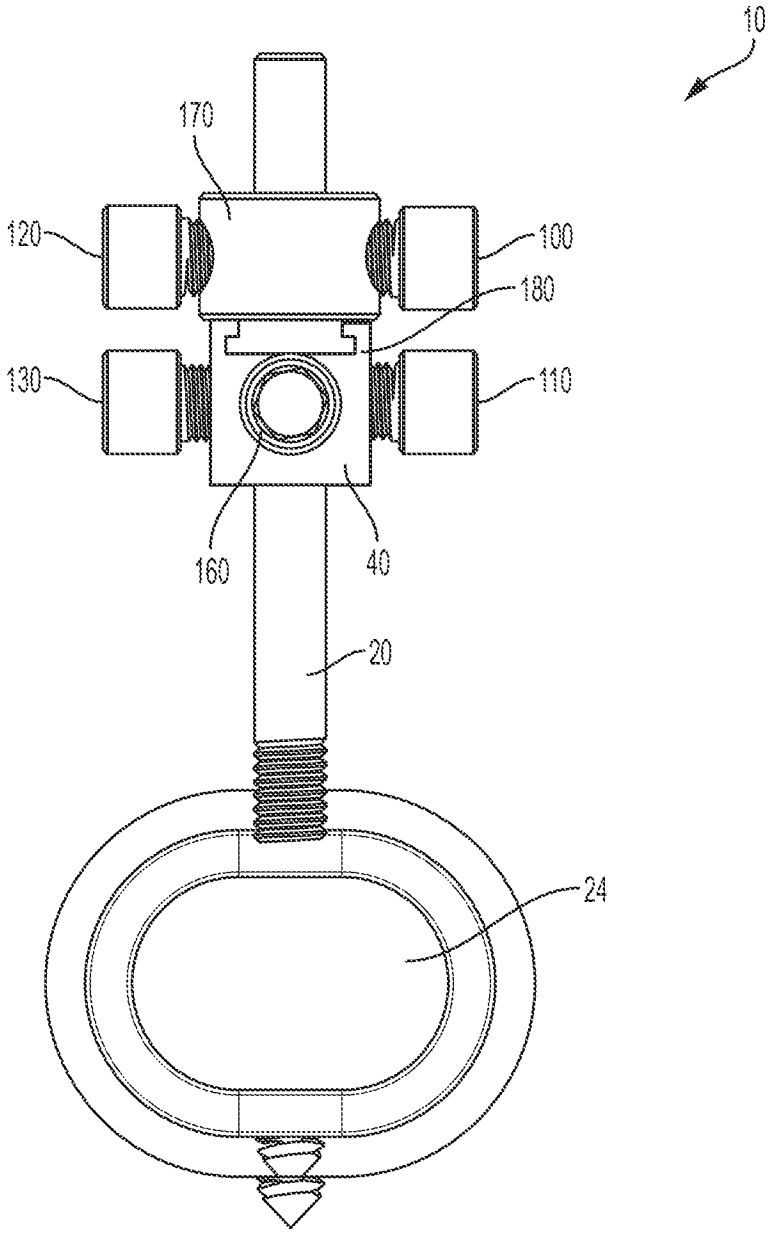


FIG. 3

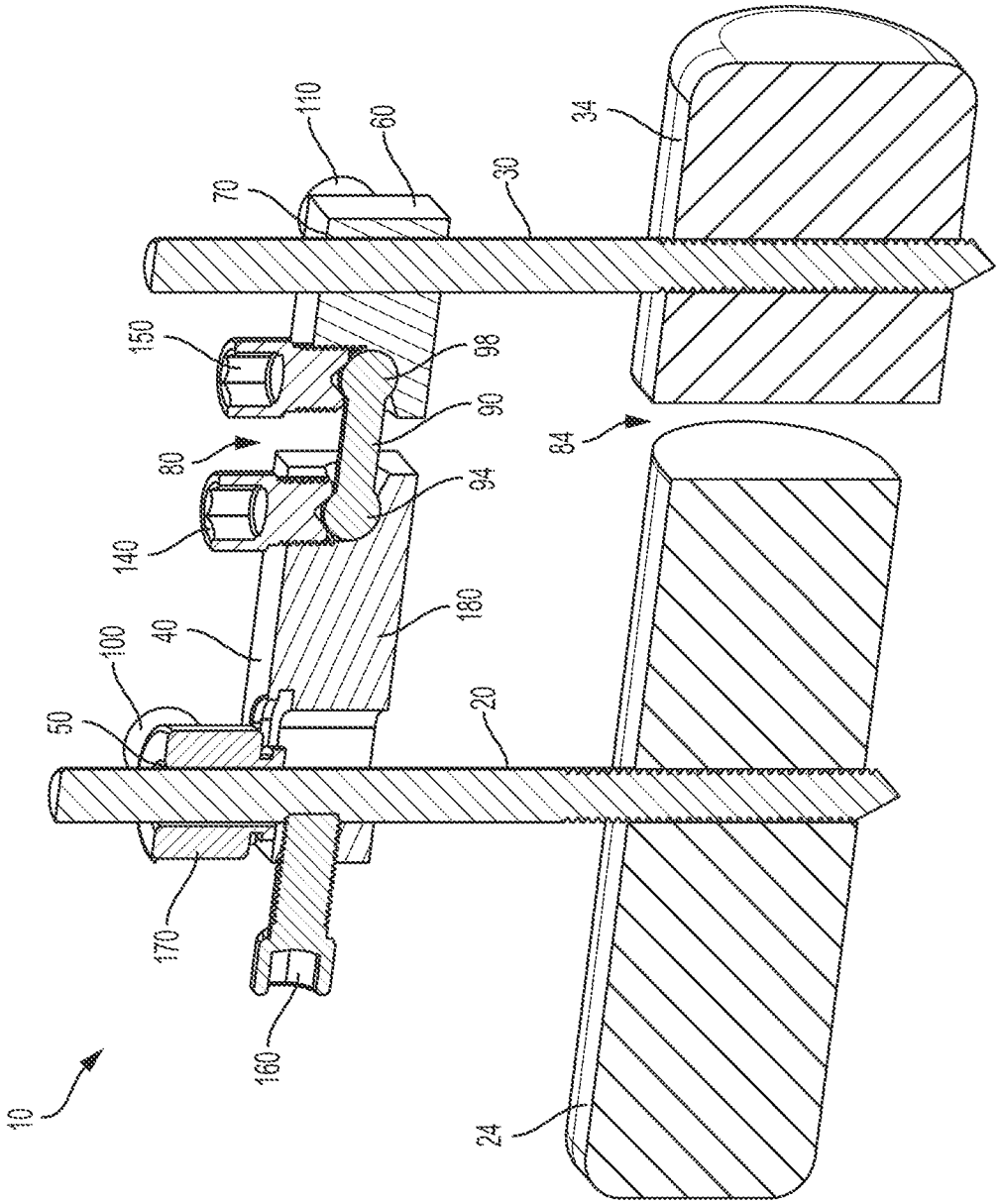


FIG. 4

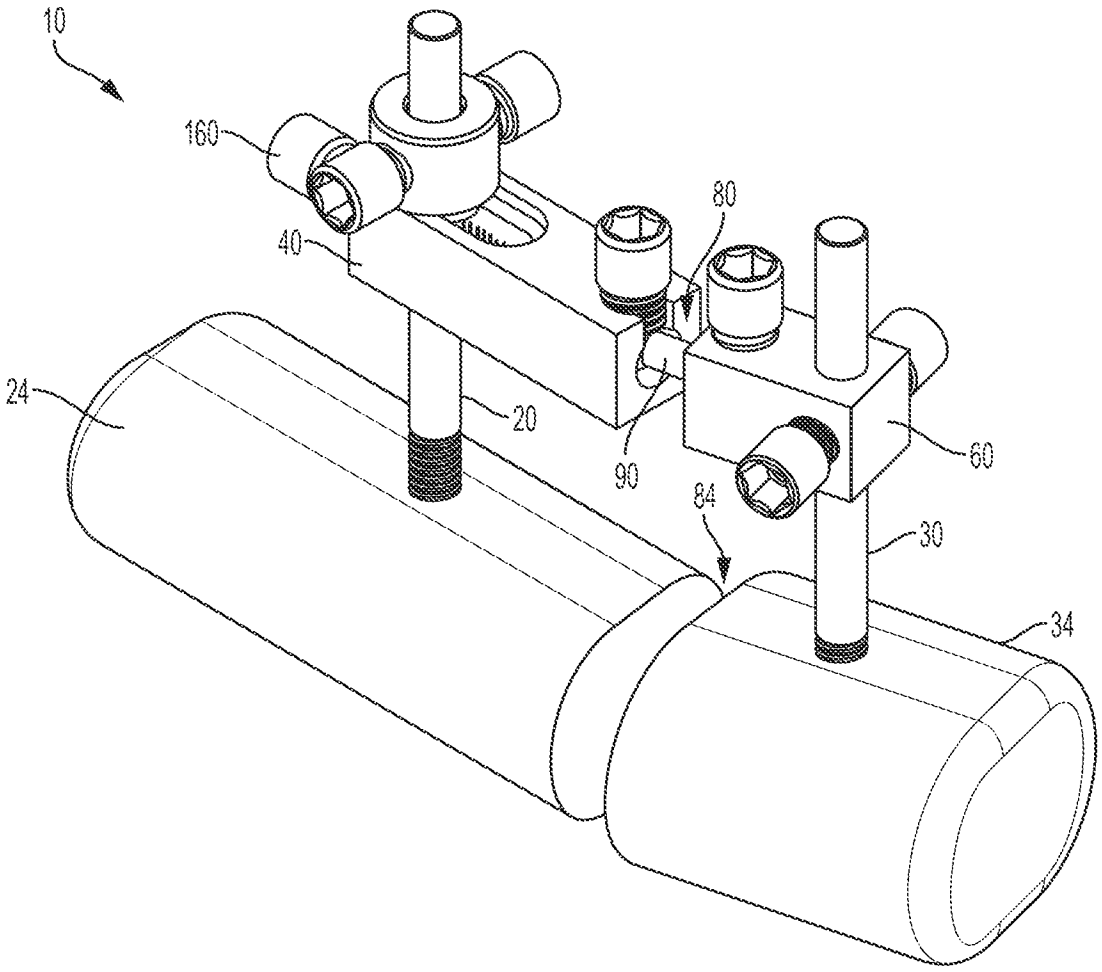


FIG. 5

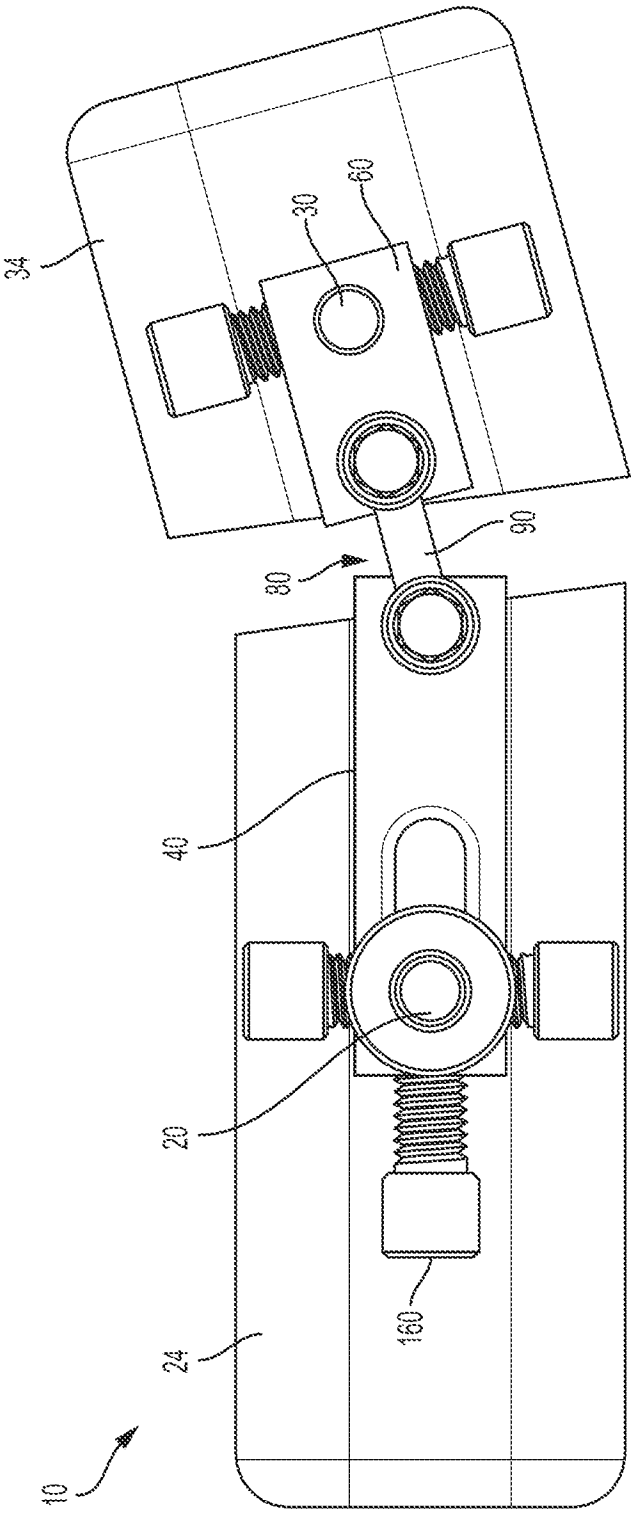


FIG. 6

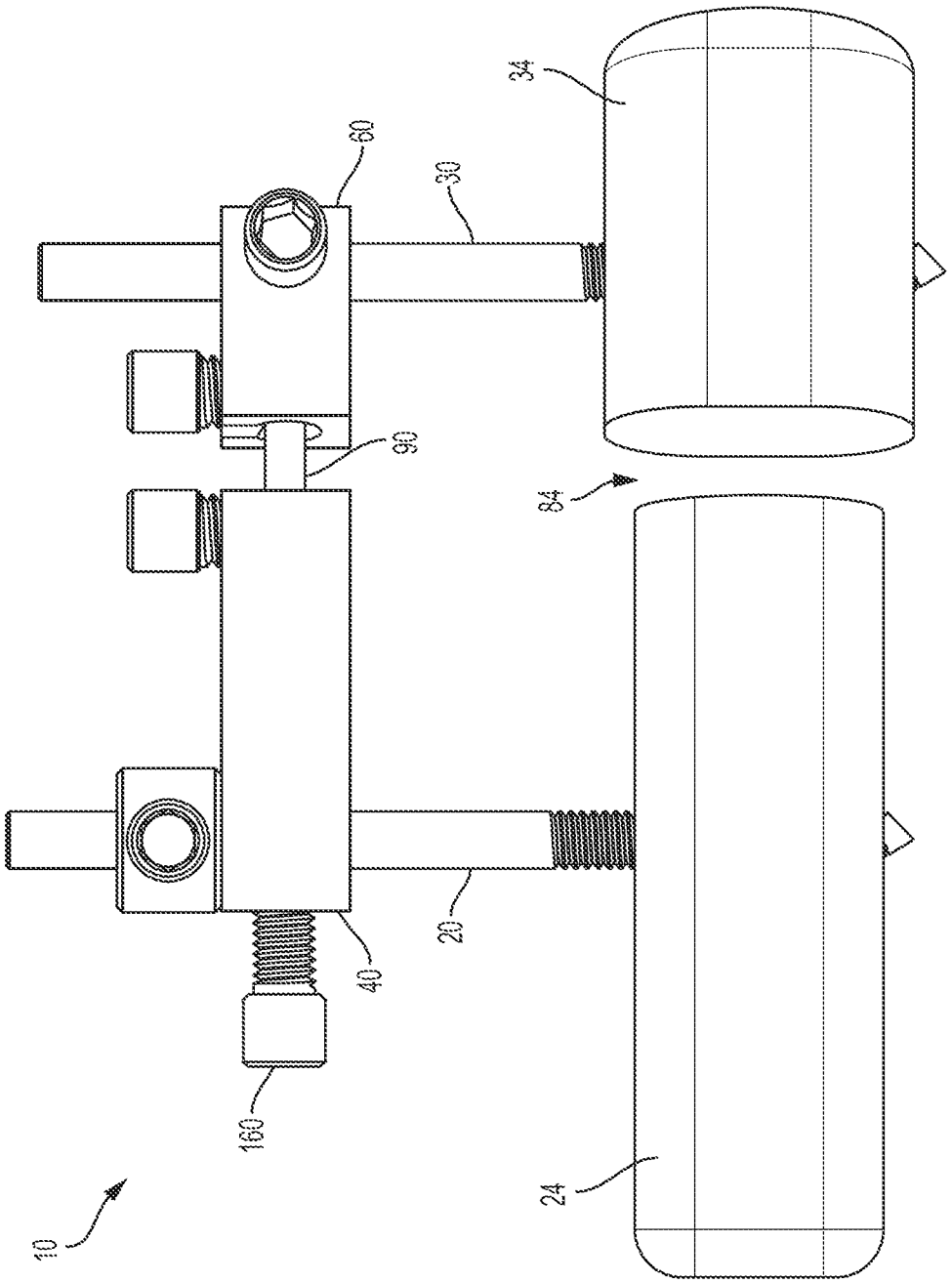


FIG. 7

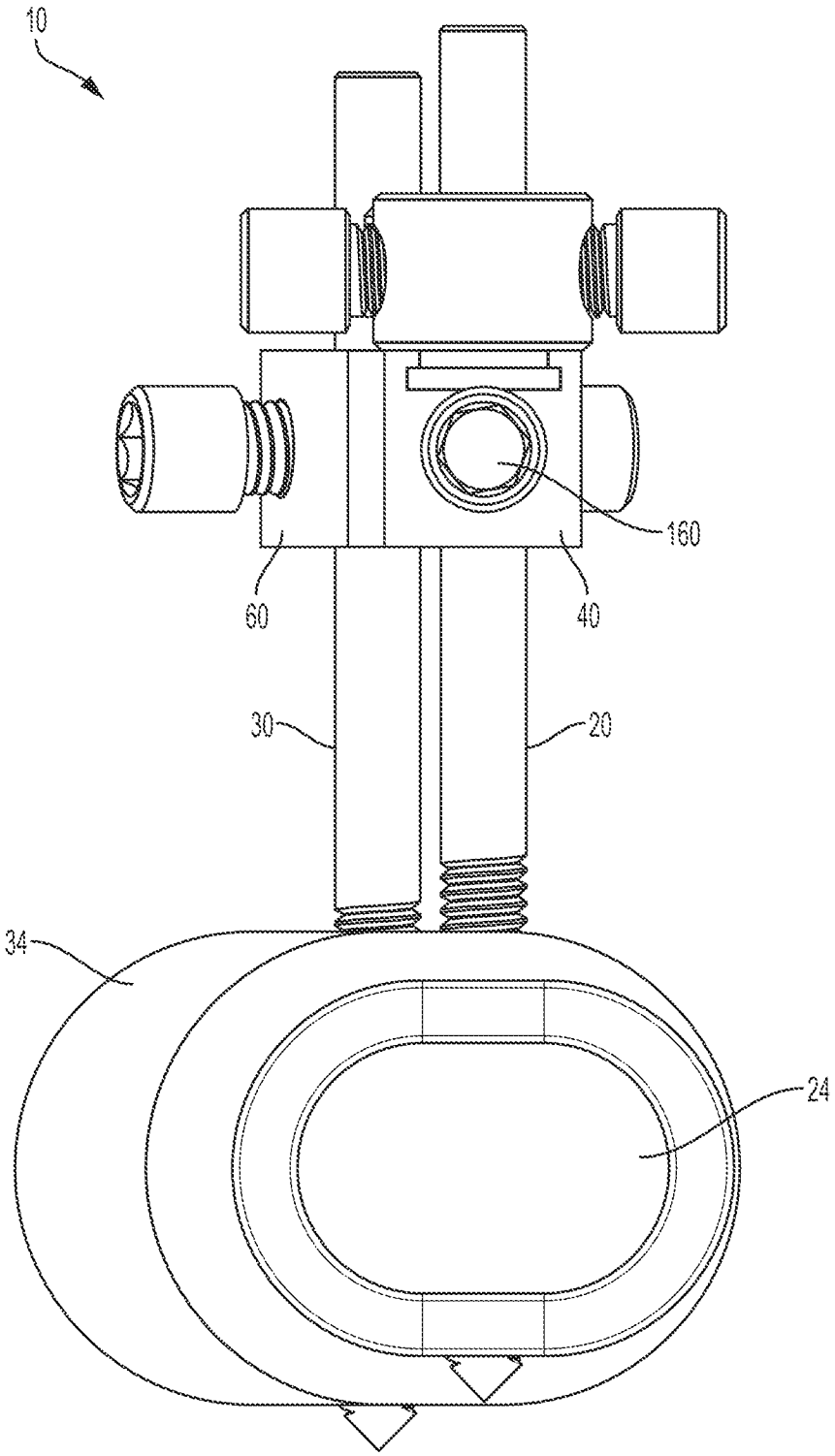


FIG. 8

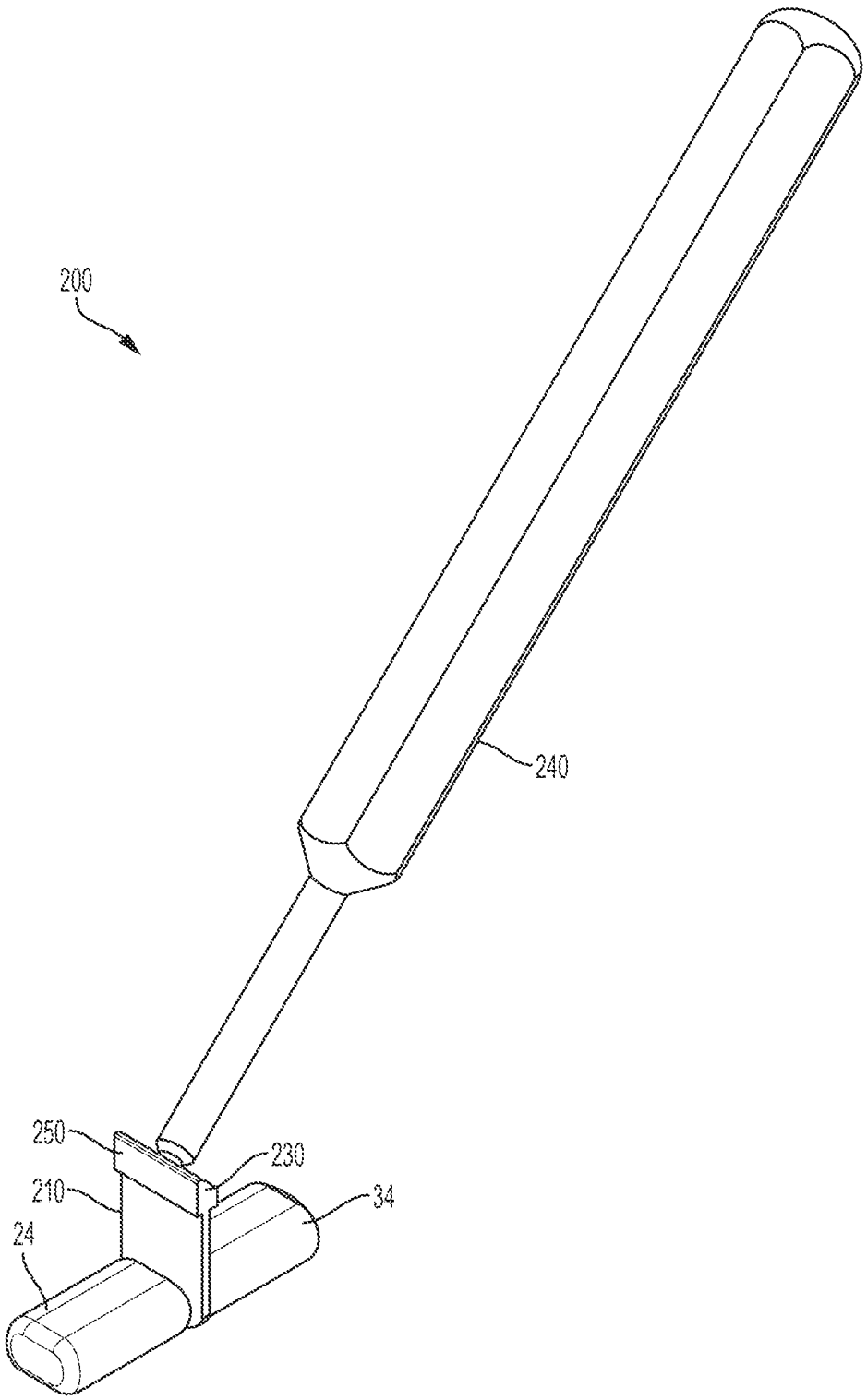


FIG. 9

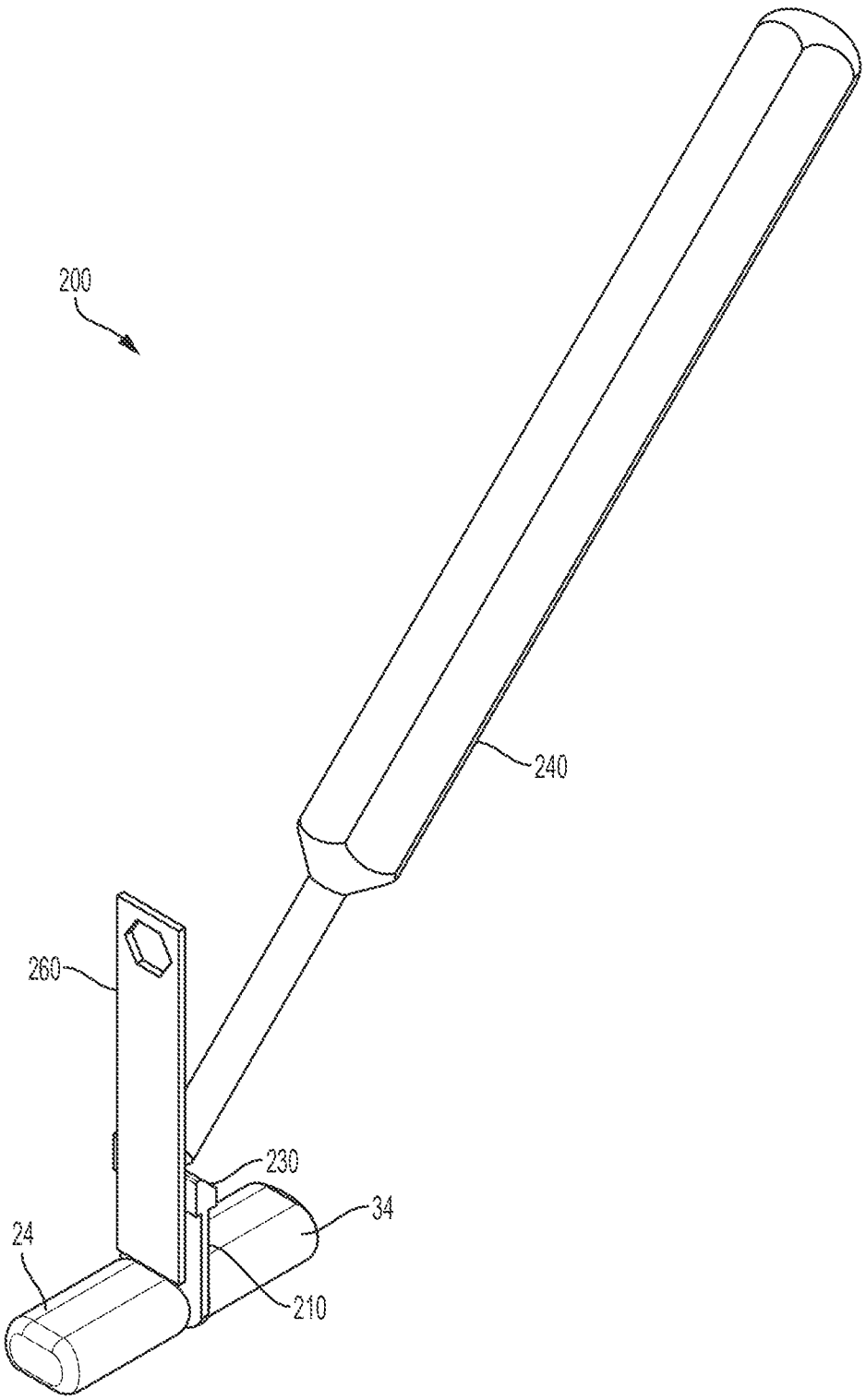


FIG. 10

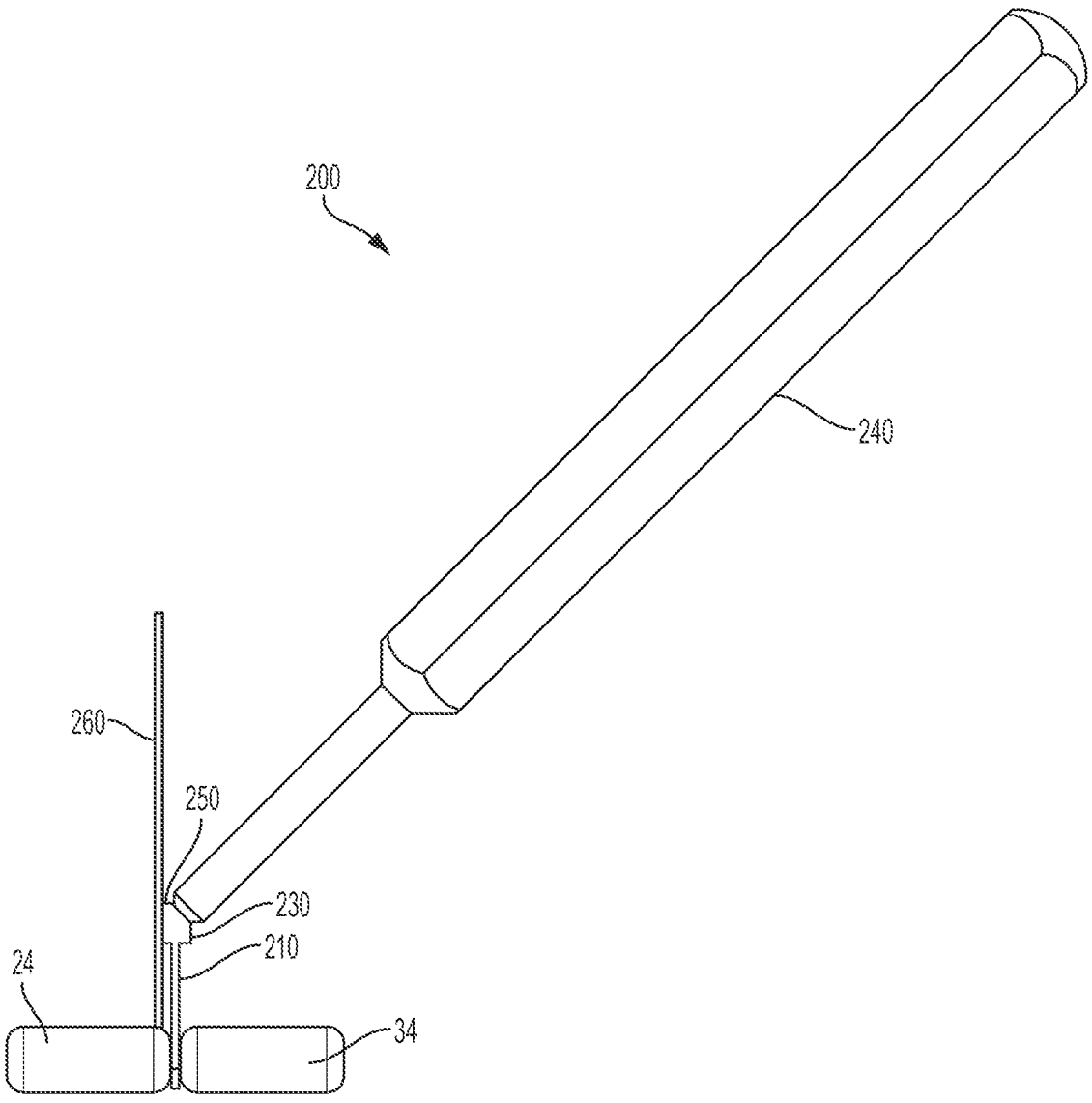


FIG. 11

PTO/AIA/82A (07-13)
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Application Number	Not Yet Assigned
Filing Date	Filed Herewith
First Named Inventor	Paul Dayton
Title	BONE POSITIONING AND CUTTING SYSTEM AND METHOD
Art Unit	Not Yet Assigned
Examiner Name	Not Yet Assigned
Attorney Docket Number	71212.4.1.USC7

SIGNATURE of Applicant or Patent Practitioner

Signature	/Paul J. LaVanway, Jr./	Date (Optional)	March 25, 2024
Name	Paul J. LaVanway, Jr.	Registration Number	64610
Title (if Applicant is a juristic entity)	Attorney		
Applicant Name (if Applicant is a juristic entity)	Treace Medical Concepts, Inc.		

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

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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

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☑ 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: 22859

OR

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Country					
Telephone		Email			

I am the Applicant (if the Applicant is a juristic entity, list the Applicant name in the box):

Treace Medical Concepts, Inc.

☐ 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	/John T. Treace/	Date (Optional)	10/19/16
Name	John T. Treace		
Title	Chief Executive Officer		

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.

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7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspections or an issued patent.
9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

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Examiner Initial*	Cite No	Patent Number	Kind Code[1]	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	3664022	A	1972-05-23	SMALL	
	2	4069824	A	1978-01-24	WEINSTOCK	
	3	4159716	A	1979-07-03	BORCHERS	
	4	4187840	A	1980-02-12	Watanabe	
	5	4335715	A	1982-06-22	Kirkley	
	6	4338927	A	1982-07-13	Volkov et al.	
	7	4349018	A	1982-09-14	Chambers	
	8	4409973	A	1983-10-18	Neufeld	

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	9	4440168	A	1984-04-03	Warren	
	10	4501268	A	1985-02-26	Comparetto	
	11	4502474	A	1985-03-05	COMPARETTO	
	12	4509511	A	1985-04-09	Neufeld	
	13	4565191	A	1986-01-21	Slocum	
	14	4570624	A	1986-02-18	Wu	
	15	4627425	A	1986-12-09	Reese	
	16	4628919	A	1986-12-16	Clyburn	
	17	4632102	A	1986-12-30	COMPARETTO	
	18	4664102	A	1987-05-12	Comparetto	
	19	4708133	A	1987-11-24	Comparetto	

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	20	4736737	A	1988-04-12	FARGIE et al.	
	21	4750481	A	1988-06-14	Reese	
	22	4757810	A	1988-07-19	Reese	
	23	4895141	A	1990-01-23	KOENEMAN et al.	
	24	4952214	A	1990-08-28	Comparetto	
	25	4959066	A	1990-09-25	DUNN et al.	
	26	4978347	A	1990-12-18	ILIZAROV	
	27	4988349	A	1991-01-29	PENNIG	
	28	4995875	A	1991-02-26	Coes	
	29	5021056	A	1991-06-04	Hofmann et al.	
	30	5035698	A	1991-07-30	Comparetto	

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	31	5042983	A	1991-08-27	Rayhack	
	32	5049149	A	1991-09-17	Schmidt	
	33	5053039	A	1991-10-01	Hofmann et al.	
	34	5078719	A	1992-01-07	Schreiber	
	35	5112334	A	1992-05-12	Alchermes et al.	
	36	5147364	A	1992-09-15	Comparetto	
	37	5176685	A	1993-01-05	Rayhack	
	38	5207676	A	1993-05-04	Canadell et al.	
	39	5246444	A	1993-09-21	Schreiber	
	40	5254119	A	1993-10-19	SCHREIBER	
	41	5312412	A	1994-05-17	WHIPPLE	

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	42	5358504	A	1994-10-25	Paley et al.	
	43	5364402	A	1994-11-15	Mumme et al.	
	44	5374271	A	1994-12-20	HWANG	
	45	5413579	A	1995-05-09	DU TOIT	
	46	H001706	H	1998-01-06	Mason	
	47	5449360	A	1995-09-12	SCHREIBER	
	48	5470335	A	1995-11-28	DU TOIT	
	49	5490854	A	1996-02-13	Fisher et al.	
	50	5529075	A	1996-06-25	CLARK	
	51	5540695	A	1996-07-30	LEVY	
	52	5578038	A	1996-11-26	Slocum	

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	53	5601565	A	1997-02-11	Huebner	
	54	5613969	A	1997-03-25	JENKINS JR	
	55	5620448	A	1997-04-15	PUDDU	
	56	5620442	A	1997-04-15	BAILEY et al.	
	57	5643270	A	1997-07-01	Combs	
	58	5667510	A	1997-09-16	COMBS	
	59	5722978	A	1998-03-03	Jenkins	
	60	5749875	A	1998-05-12	PUDDU	
	61	5779709	A	1998-07-14	Harris et al.	
	62	5788695	A	1998-08-04	RICHARDSON	
	63	5803924	A	1998-09-08	Oni et al.	

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
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	64	5810822	A	1998-09-22	MORTIER	
	65	5843085	A	1998-12-01	Graser	
	66	5893553	A	1999-04-13	PINKOUS	
	67	5911724	A	1999-06-15	Wehrli	
	68	5935128	A	1999-08-10	Carter et al.	
	69	5941877	A	1999-08-24	Viegas et al.	
	70	5951556	A	1999-09-14	FACCIOLI et al.	
	71	5980526	A	1999-11-09	Johnson et al.	
	72	5984931	A	1999-11-16	GREENFIELD	
	73	6007535	A	1999-12-28	RAYHACK et al.	
	74	6027504	A	2000-02-22	MCGUIRE	

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
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	75	6030391	A	2000-02-29	Brainard et al.	
	76	6162223	A	2000-12-19	Orsak et al.	
	77	6171309	B1	2001-01-09	Huebner	
	78	6203545	B1	2001-03-20	Stoffella	
	79	6248109	B1	2001-06-19	Stoffella	
	80	6391031	B1	2002-05-21	Toomey	
	81	6478799	B1	2002-11-12	Williamson	
	82	6511481	B2	2003-01-28	von Hoffmann et al.	
	83	6547793	B1	2003-04-15	McGuire	
	84	6676662	B1	2004-01-13	Bagga et al.	
	85	6719773	B1	2004-04-13	Boucher et al.	

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	86	6743233	B1	2004-06-01	Baldwin et al.	
	87	6755838	B2	2004-06-29	Trnka	
	88	6796986	B2	2004-09-28	Duffner	
	89	6859661	B2	2005-02-22	Tuke	
	90	7018383	B2	2006-03-28	McGuire	
	91	7033361	B2	2006-04-25	Collazo	
	92	7112204	B2	2006-09-26	Justin et al.	
	93	7182766	B1	2007-02-27	Mogul	
	94	7241298	B2	2007-07-10	Nemec et al.	
	95	7282054	B2	2007-10-16	Steffensmeier et al.	
	96	7377924	B2	2008-05-27	Raistrick et al.	

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	97	7465303	B2	2008-12-16	Riccione et al.	
	98	7540874	B2	2009-06-02	Trumble et al.	
	99	7572258	B2	2009-08-11	Stiernborg	
	100	7641660	B2	2010-01-05	Lakin et al.	
	101	D 610257	S	2010-02-16	Horton	
	102	7686811	B2	2010-03-30	Byrd et al.	
	103	7691108	B2	2010-04-06	Lavallee	
	104	7763026	B2	2010-07-27	Egger et al.	
	105	D 629900	S	2010-12-28	Fisher	
	106	7967823	B2	2011-06-28	Ammann et al.	
	107	7972338	B2	2011-07-05	O'Brien	

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	108	D 646389	S	2011-10-04	Claypool et al.	
	109	8057478	B2	2011-11-15	Kuczynski et al.	
	110	8062301	B2	2011-11-22	Ammann et al.	
	111	8080010	B2	2011-12-20	Schulz et al.	
	112	8083746	B2	2011-12-27	Novak	
	113	D 651316	S	2011-12-27	May et al.	
	114	D 651315	S	2011-12-27	Bertoni et al.	
	115	8123753	B2	2012-02-28	Poncet	
	116	8137406	B2	2012-03-20	Novak et al.	
	117	8147530	B2	2012-04-03	Strnad et al.	
	118	8167918	B2	2012-05-01	Strnad et al.	

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	119	8172848	B2	2012-05-08	Tomko et al.	
	120	8192441	B2	2012-06-05	Collazo	
	121	8197487	B2	2012-06-12	Poncet et al.	
	122	8231663	B2	2012-07-31	Kay et al.	
	123	8231623	B1	2012-07-31	Jordan	
	124	8236000	B2	2012-08-07	Ammann et al.	
	125	8246561	B1	2012-08-21	Agee et al.	
	126	D 666721	S	2012-09-04	Wright et al.	
	127	8262664	B2	2012-09-11	Justin et al.	
	128	8277459	B2	2012-10-02	Sand et al.	
	129	8282645	B2	2012-10-09	Lawrence et al.	

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	130	8282644	B2	2012-10-09	Edwards	
	131	8292966	B2	2012-10-23	Morton	
	132	8303596	B2	2012-11-06	Plassky et al.	
	133	8313492	B2	2012-11-20	Wong et al.	
	134	8323289	B2	2012-12-04	Re	
	135	8337503	B2	2012-12-25	Lian	
	136	8343159	B2	2013-01-01	Bennett	
	137	8377105	B2	2013-02-19	Buescher	
	138	8409209	B2	2013-04-02	Ammann et al.	
	139	D 679395	S	2013-04-02	Wright et al.	
	140	8435246	B2	2013-05-07	Fisher et al.	

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	141	8475462	B2	2013-07-02	Thomas et al.	
	142	8496662	B2	2013-07-30	Novak et al.	
	143	8523870	B2	2013-09-03	Green, II et al.	
	144	8529571	B2	2013-09-10	Horan et al.	
	145	8540777	B2	2013-09-24	Ammann et al.	
	146	8545508	B2	2013-10-01	Collazo	
	147	D 694884	S	2013-12-03	Mooradian et al.	
	148	D 695402	S	2013-12-10	Dacosta et al.	
	149	8652142	B2	2014-02-18	Geissler	
	150	8657820	B2	2014-02-25	Kubiak et al.	
	151	8672945	B2	2014-03-18	Lavallee et al.	

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	152	D 701303	S	2014-03-18	Cook	
	153	8696716	B2	2014-04-15	Kartalian et al.	
	154	8702715	B2	2014-04-22	Ammann et al.	
	155	8715363	B2	2014-05-06	Ratron et al.	
	156	8728084	B2	2014-05-20	Berelsman et al.	
	157	D 705929	S	2014-05-27	Frey	
	158	8758354	B2	2014-06-24	Habegger et al.	
	159	8764763	B2	2014-07-01	Wong et al.	
	160	8764760	B2	2014-07-01	Metzger et al.	
	161	8771279	B2	2014-07-08	Philippon et al.	
	162	8777948	B2	2014-07-15	Bernsteiner	

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	163	8784457	B2	2014-07-22	Graham	
	164	8784427	B2	2014-07-22	Fallin et al.	
	165	8795286	B2	2014-08-05	Sand et al.	
	166	8801727	B2	2014-08-12	Chan et al.	
	167	8808303	B2	2014-08-19	Stemniski et al.	
	168	8828012	B2	2014-09-09	May et al.	
	169	8080045	B2	2011-12-20	Wotton, III	
	170	10779867	B2	2020-09-22	Penzimer et al.	

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	1	20140249537	A1	2014-09-04	WONG et al.	

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	2	20020107519	A1	2002-08-08	Dixon et al.	
	3	20020165552	A1	2002-11-07	Duffner	
	4	20020198531	A1	2002-12-26	Millard et al.	
	5	20040010259	A1	2004-01-15	Keller et al.	
	6	20040039394	A1	2004-02-26	Conti et al.	
	7	20040097946	A1	2004-05-20	Dietzel et al.	
	8	20040138669	A1	2004-07-15	Horn	
	9	20050004676	A1	2005-01-06	Schon et al.	
	10	20050059978	A1	2005-03-17	Sherry et al.	
	11	20050070909	A1	2005-03-31	Egger et al.	
	12	20050075641	A1	2005-04-07	Singhatat et al.	

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	13	20050101961	A1	2005-05-12	Huebner et al.	
	14	20050149042	A1	2005-07-07	Metzger	
	15	20050228389	A1	2005-10-13	Stiernborg	
	16	20050251147	A1	2005-11-10	Novak	
	17	20050273112	A1	2005-12-08	McNamara	
	18	20060129163	A1	2006-06-15	McGuire	
	19	20060206044	A1	2006-09-14	Simon	
	20	20060217733	A1	2006-09-28	Plassky et al.	
	21	20060229621	A1	2006-10-12	Cadmus	
	22	20060241608	A1	2006-10-26	Myerson et al.	
	23	20060241607	A1	2006-10-26	Myerson et al.	

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	24	20060264961	A1	2006-11-23	Murray-Brown	
	25	20070010818	A1	2007-01-11	Stone et al.	
	26	20070123857	A1	2007-05-31	Deffenbaugh et al.	
	27	20070233138	A1	2007-10-04	Figueroa et al.	
	28	20070265634	A1	2007-11-15	WEINSTEIN	
	29	20070276383	A1	2007-11-29	Rayhack	
	30	20080009863	A1	2008-01-10	Bond et al.	
	31	20080015603	A1	2008-01-17	Collazo	
	32	20080039850	A1	2008-02-14	Rowley et al.	
	33	20080091197	A1	2008-04-17	Coughlin	
	34	20080140081	A1	2008-06-12	Heavener et al.	

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	35	20080147073	A1	2008-06-19	Ammann et al.	
	36	20140257509	A1	2014-09-11	Dacosta et al.	
	37	20080195215	A1	2008-08-14	Morton	
	38	20080208252	A1	2008-08-28	Holmes	
	39	20080262500	A1	2008-10-23	Collazo	
	40	20080269908	A1	2008-10-30	Warburton	
	41	20080288004	A1	2008-11-20	Schendel	
	42	20090036931	A1	2009-02-05	Pech et al.	
	43	20090036893	A1	2009-02-05	Kartalian et al.	
	44	20090054899	A1	2009-02-26	Ammann et al.	
	45	20090093849	A1	2009-04-09	Grabowski	

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	46	20090105767	A1	2009-04-23	Reiley	
	47	20090118733	A1	2009-05-07	Orsak et al.	
	48	20090198279	A1	2009-08-06	Zhang et al.	
	49	20090198244	A1	2009-08-06	Leibel	
	50	20090222047	A1	2009-09-03	Graham	
	51	20090254126	A1	2009-10-08	Orbay et al.	
	52	20090254092	A1	2009-10-08	ALBIOL LLORACH	
	53	20090287309	A1	2009-11-19	Walch et al.	
	54	20100069910	A1	2010-03-18	Hasselman	
	55	20100121334	A1	2010-05-13	Couture et al.	
	56	20100130981	A1	2010-05-27	Richards	

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	57	20100152782	A1	2010-06-17	Stone et al.	
	58	20100168799	A1	2010-07-01	Schumer	
	59	20100185245	A1	2010-07-22	Paul et al.	
	60	20100249779	A1	2010-09-30	Hotchkiss et al.	
	61	20100256687	A1	2010-10-07	Neufeld et al.	
	62	20100318088	A1	2010-12-16	Warne et al.	
	63	20100324556	A1	2010-12-23	Tyber et al.	
	64	20110009865	A1	2011-01-13	Orfaly	
	65	20110093084	A1	2011-04-21	Morton	
	66	20110118739	A1	2011-05-19	Tyber et al.	
	67	20110178524	A1	2011-07-21	Lawrence et al.	

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	68	20110245835	A1	2011-10-06	Dodds et al.	
	69	20110288550	A1	2011-11-24	Orbay et al.	
	70	20110301648	A1	2011-12-08	Lofthouse et al.	
	71	20120016426	A1	2012-01-19	Robinson	
	72	20120065689	A1	2012-03-15	Prasad et al.	
	73	20120078258	A1	2012-03-29	Lo et al.	
	74	20120123484	A1	2012-05-17	Lietz et al.	
	75	20120123420	A1	2012-05-17	Honiball	
	76	20120130383	A1	2012-05-24	Budoff	
	77	20120130382	A1	2012-05-24	Iannotti et al.	
	78	20120130376	A1	2012-05-24	Loring et al.	

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
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	Filing Date	
	First Named Inventor	Paul Dayton
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	79	20120185056	A1	2012-07-19	Warburton	
	80	20120184961	A1	2012-07-19	Johannaber	
	81	20120191199	A1	2012-07-26	Raemisch	
	82	20120239045	A1	2012-09-20	Li	
	83	20120253350	A1	2012-10-04	ANTHONY et al.	
	84	20120265301	A1	2012-10-18	Demers et al.	
	85	20120277745	A1	2012-11-01	LIZEE	
	86	20140257308	A1	2014-09-11	Johannaber	
	87	20130012949	A1	2013-01-10	Fallin et al.	
	88	20130035694	A1	2013-02-07	Grimm et al.	
	89	20130085499	A1	2013-04-04	Lian	

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	
	Filing Date	
	First Named Inventor	Paul Dayton
	Art Unit	
	Examiner Name	
	Attorney Docket Number	71212.4.1.USC7

	90	20140277214	A1	2014-09-18	Helenbolt et al.	
	91	20130131821	A1	2013-05-23	Cachia	
	92	20130150903	A1	2013-06-13	Vincent	
	93	20130158556	A1	2013-06-20	Jones et al.	
	94	20130165938	A1	2013-06-27	Chow et al.	
	95	20130165936	A1	2013-06-27	MYERS	
	96	20130172942	A1	2013-07-04	LEWIS et al.	
	97	20130184714	A1	2013-07-18	Kaneyama et al.	
	98	20130190766	A1	2013-07-25	Harris et al.	
	99	20130190765	A1	2013-07-25	Harris et al.	
	100	20130204259	A1	2013-08-08	Zajac	

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	
	Filing Date	
	First Named Inventor	Paul Dayton
	Art Unit	
	Examiner Name	
	Attorney Docket Number	71212.4.1.USC7

	101	20130226252	A1	2013-08-29	Mayer	
	102	20130226248	A1	2013-08-29	Hatch et al.	
	103	20130231668	A1	2013-09-05	Olsen et al.	
	104	20130237989	A1	2013-09-12	Bonutti	
	105	20130237987	A1	2013-09-12	Graham	
	106	20130267956	A1	2013-10-10	Terrill et al.	
	107	20130310836	A1	2013-11-21	Raub et al.	
	108	20130325076	A1	2013-12-05	Palmer et al.	
	109	20130325019	A1	2013-12-05	Thomas et al.	
	110	20130331845	A1	2013-12-12	HORAN et al.	
	111	20130338785	A1	2013-12-19	Wong	

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	
	Filing Date	
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	112	20140005672	A1	2014-01-02	Edwards et al.	
	113	20140025127	A1	2014-01-23	Richter	
	114	20140039561	A1	2014-02-06	Weiner et al.	
	115	20140039501	A1	2014-02-06	Schickendantz et al.	
	116	20140046387	A1	2014-02-13	Waizenegger	
	117	20140074101	A1	2014-03-13	Collazo	
	118	20140074099	A1	2014-03-13	Vigneron et al.	
	119	20140094924	A1	2014-04-03	Hacking et al.	
	120	20140094861	A1	2014-04-03	Fallin	
	121	20140135775	A1	2014-05-15	MAXSON et al.	
	122	20140163563	A1	2014-06-12	Reynolds et al.	

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	
	Filing Date	
	First Named Inventor	Paul Dayton
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	123	20140171953	A1	2014-06-19	GONZALVEZ et al.	
	124	20140180342	A1	2014-06-26	Lowery et al.	
	125	20140188139	A1	2014-07-03	Fallin et al.	
	126	20140194999	A1	2014-07-10	ORBAY et al.	
	127	20140194884	A1	2014-07-10	Martin et al.	
	128	20140207144	A1	2014-07-24	LEE et al.	
	129	20130085502	A1	2013-04-04	Harrold	

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	1	2009227957	AU	B2	2014-07-10	Boutin, et al.		☐
	2	2491824	CA	A1	2005-09-08	Grimm, et al.		☐

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
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	Filing Date	
	First Named Inventor	Paul Dayton
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	Attorney Docket Number	71212.4.1.USC7

	3	2854997	CA	A1	2013-05-16	Leslie, et al.		☐
	4	695846	CH	A5	2006-09-29	Roland, et al.		☐
	5	2930668	CN	Y	2007-08-08	Lin		☐
	6	201558162	CN	U	2010-08-25	Xiaojian, et al.		☐
	7	201572172	CN	U	2010-09-08	Xiaojian, et al.		☐
	8	201586060	CN	U	2010-09-22	Xiaojian, et al.		☐
	9	201912210	CN	U	2011-08-03	Xing, et al.		☐
	10	101237835	CN	B	2012-11-07	ARTHREX INC.		☐
	11	202801773	CN	U	2013-03-20	Tang, et al.		☐
	12	103462675	CN	A	2013-12-25	Tang, et al.		☐
	13	103505276	CN	A	2014-01-15	Wang, et al.		☐

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
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	First Named Inventor	Paul Dayton
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	14	203458450	CN	U	2014-03-05	Wang, et al.		☐
	15	203576647	CN	U	2014-05-07	Huang, et al.		☐
	16	102860860	CN	B	2014-05-21	Xia, et al.		☐
	17	104490460	CN	A	2015-04-08	Xu		☐
	18	104510523	CN	A	2015-04-15	Xu		☐
	19	104523327	CN	A	2015-04-22	Ma, et al.		☐
	20	104546102	CN	A	2015-04-29	Ma, et al.		☐
	21	204379413	CN	U	2015-06-10	Xu		☐
	22	204410951	CN	U	2015-06-24	Xu		☐
	23	204428145	CN	U	2015-07-01	Xu		☐
	24	204428144	CN	U	2015-07-01	Xu		☐

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	Application Number	
	Filing Date	
	First Named Inventor	Paul Dayton
	Art Unit	
	Examiner Name	
	Attorney Docket Number	71212.4.1.USC7

	25	204428143	CN	U	2015-07-01	Xu		☐
	26	204446081	CN	U	2015-07-08	Ma, et al.		☐
	27	202006010241	DE	U1	2007-03-29	RHEE		☐
	28	102007053058	DE	B3	2009-04-09	NORMED MEDIZIN TECHNIK VERTRIE		☐
	29	4134243	JP	B2	2008-08-20	Nishiyama, et al.		☐
	30	685206	EP	B1	2000-09-06	Ellis		☐
	31	1508316	EP	B1	2007-05-16	DEPUY FRANCE		☐
	32	1897509	EP	B1	2009-07-08	Arnould		☐
	33	2124772	EP	A1	2009-12-02	Richards		☐
	34	2124832	EP	B1	2012-08-08	Collins, et al.		☐
	35	2632349	EP	A1	2013-09-04	Iannotti, et al.		☐

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
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	First Named Inventor	Paul Dayton
	Art Unit	
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	Attorney Docket Number	71212.4.1.USC7

	36	2665428	EP	A1	2013-11-27	Johannaber		☐
	37	2742878	EP	A1	2014-06-18	Reynolds, et al.		☐
	38	2750617	EP	A1	2014-07-09	Gaudin		☐
	39	2849684	EP	A1	2015-03-25	Neal, et al.		☐
	40	2624764	EP	B1	2015-12-30	CERAMTEC GMBH		☐
	41	2362616	FR	A1	1978-03-24	Duyck		☐
	42	2764183	FR	B1	1999-11-05	Afriat, et al.		☐
	43	2953120	FR	B1	2012-01-20	HECHARD		☐
	44	3030221	FR	A1	2016-06-24	Boniface et al.		☐
	45	2154144	GB	A	1985-09-04	De Bastiani, et al.		☐
	46	2154143	GB	A	1985-09-04	De Bastiani, et al.		☐

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
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	First Named Inventor	Paul Dayton
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	47	2334214	GB	B	2003-01-22	STANLEY		☐
	48	2006158972	JP	A	2006-06-22	DEPUY PRODUCTS INC		☐
	49	2011092405	JP	A	2011-05-12	Sato		☐
	50	2011523889	JP	A	2011-08-25	Saravuia, et al.		☐

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	1	“Accu-Cut Osteotomy Guide System,” BioPro, Brochure, October 2018, 2 pages.	☐
	2	“Acumed Osteotomiesystem Operationstechnik,” Acumed, 2014, 19 pages (including 3 pages English translation).	☐
	3	ALBANO et al., "Biomechanical Study of Transcortical or Transtrabecular Bone Fixation of Patellar Tendon Graft wih Bioabsorbable Pins in ACL Reconstruction in Sheep," Revista Brasileira de Ortopedia (Rev Bras Ortop.) Vol. 47, No. 1, 2012, pp. 43-49.	☐
	4	ALVINE et al., “Peg and Dowel Fusion of the Proximal Interphalangeal Joint,” Foot & Ankle, Vol. 1, No. 2, 1980, pp. 90–94.	☐
	5	ANDERSON et al., "Uncemented STAR Total Ankle Prostheses," The Journal of Bone and Joint Surgery, Vol. 86(1, Suppl 2), September 2004, pp. 103-111, (Abstract Only).	☐

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	
	Filing Date	
	First Named Inventor	Paul Dayton
	Art Unit	
	Examiner Name	
	Attorney Docket Number	71212.4.1.USC7

	6	BEDNARZ et al., "Modified Lapidus Procedure for the Treatment of Hypermobile Hallux Valgus," Foot & Ankle International, Vol. 21, No. 10, October 2000, pp. 816–821.	☐
	7	BLOMER, "Knieendoprothetik – Herstellerische Probleme und technologische Entwicklungen," Orthopade, Vol. 29, 2000, pp. 688–696, including English Abstract on page 689.	☐
	8	BOUAICHA et al., "Fixation of Maximal Shift Scarf Osteotomy with Inside-Out Plating: Technique Tip," Foot & Ankle International, Vol. 32, No. 5, May 2011, pp. 567–569.	☐
	9	CARR et al., "Correctional Osteotomy for Metatarsus Primus Varus and Hallux Valgus," The Journal of Bone and Joint Surgery, Vol. 50-A, No. 7, October 1968, pp. 1353–1367.	☐
	10	COETZEE et al., "The Lapidus Procedure: A Prospective Cohort Outcome Study," Foot & Ankle International, Vol. 25, No. 8, August 2004, pp. 526–531.	☐
	11	DAYTON et al., "Is Our Current Paradigm for Evaluation and Management of the Bunion Deformity Flawed? A Discussion of Procedure Philosophy Relative to Anatomy," The Journal of Foot and Ankle Surgery, Vol. 54, 2015, pp. 102-111.	☐
	12	DAYTON et al., "Observed Changes in Radiographic Measurements of the First Ray after Frontal and Transverse Plane Rotation of the Hallux: Does the Hallux Drive the Metatarsal in a Bunion Deformity?," The Journal of Foot and Ankle Surgery, Vol. 53, 2014, pp. 584-587.	☐
	13	DAYTON et al., "Relationship Of Frontal Plane Rotation Of First Metatarsal To Proximal Articular Set Angle And Hallux Alignment In Patients Undergoing Tarsometatarsal Arthrodesis For Hallux Abducto Valgus: A Case Series And Critical Review Of The Literature," The Journal of Foot and Ankle Surgery, Vol. 52, No. 3, May/June 2013, pp. 348-354.	☐
	14	DAYTON et al., "Quantitative Analysis of the Degree of Frontal Rotation Required to Anatomically Align the First Metatarsal Phalangeal Joint During Modified Tarsal-Metatarsal Arthrodesis Without Capsular Balancing," The Journal of Foot and Ankle Surgery, 2015, pp. 1-6.	☐
	15	DE GEER et al., "A New Measure of Tibial Sesamoid Position in Hallux Valgus in Relation to the Coronal Rotation of the First Metatarsal in CT Scans," Foot and Ankle International, March 26, 2015, 9 pages.	☐
	16	DiDOMENICO et al., "Correction of Frontal Plane Rotation of Sesamoid Apparatus during the Lapidus Procedure: A Novel Approach," The Journal of Foot and Ankle Surgery, Vol. 53, 2014, pp. 248-251.	☐

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	
	Filing Date	
	First Named Inventor	Paul Dayton
	Art Unit	
	Examiner Name	
	Attorney Docket Number	71212.4.1.USC7

	17	DOBBE et al. "Patient-Tailored Plate For Bone Fixation And Accurate 3D Positioning In Corrective Osteotomy," Medical and Biological Engineering and Computing, Vol. 51, No. 1-2, February 2013, pp. 19-27, (Abstract Only).	☐
	18	DOTY et al., "Hallux valgus and hypermobility of the first ray: facts and fiction," International Orthopaedics, Vol. 37, 2013, pp. 1655-1660.	☐
	19	EBI Extra Small Rail Fixator, Biomet Trauma, retrieved December 19, 2014, from the Internet: <http:// footandanklefixation.com/product/biomet-trauma-ebi-extra-small-rail-fixator>, 7 pages.	☐
	20	International Patent Application No. PCT/US2016/018484, International Search Report and Written Opinion mailed June 30, 2016, 12 pages.	☐
	21	“Futura Forefoot Implant Arthroplasty Products,” Tornier, Inc., 2008, 14 pages.	☐
	22	GALLI et al., "Enhanced Lapidus Arthrodesis: Crossed Screw Technique With Middle Cuneiform Fixation Further Reduces Sagittal Mobility," The Journal of Foot & Ankle Surgery, Vol. 54, Vol. 3, May/June 2015, published online: November 21, 2014, pp. 437-440.	☐
	23	GARTHWAIT, "Accu-Cut System Facilitates Enhanced Precision," Podiatry Today, Vol. 18, No. 6, June 2005, 6 pages.	☐
	24	GONZALEZ DEL PINO et al., "Variable Angle Locking Intercarpal Fusion System for Four-Corner Arthrodesis: Indications and Surgical Technique,” Journal of Wrist Surgery, Vol. 1, No. 1, August 2012, pp. 73-78.	☐
	25	GOTTE, “Entwicklung eines Assistenzrobotersystems für die Knieendoprothetik,” Forschungsberichte, Technische Universitat Munchen, 165, 2002, 11 pages, including partial English Translation.	☐
	26	GREGG et al., “Plantar plate repair and Weil osteotomy for metatarsophalangeal joint instability,” Foot and Ankle Surgery, Vol. 13, 2007, pp. 116–121.	☐
	27	GRONDAL et al., "A Guide Plate for Accurate Positioning of First Metatarsophalangeal Joint during Fusion," Operative Orthopädie Und Traumatologie, Vol. 16, No. 2, 2004, pp. 167-178 (Abstract Only).	☐

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	
	Filing Date	
	First Named Inventor	Paul Dayton
	Art Unit	
	Examiner Name	
	Attorney Docket Number	71212.4.1.USC7

	28	"HAT-TRICK Lesser Toe Repair System," Smith & Nephew, Brochure, August 2014, 12 pages.	☐
	29	"HAT-TRICK Lesser Toe Repair System, Foot and Ankle Technique Guide, Metatarsal Shortening Osteotomy Surgical Technique," Smith & Nephew, 2014, 16 pages.	☐
	30	HETHERINGTON et al., "Evaluation of surgical experience and the use of an osteotomy guide on the apical angle of an Austin osteotomy," The Foot, Vol. 18, 2008, pp. 159–164.	☐
	31	HIRAO et al., "Computer assisted planning and custom-made surgical guide for malunited pronation deformity after first metatarsophalangeal joint arthrodesis in rheumatoid arthritis: A case report," Computer Aided Surgery, Vol. 19, Nos. 1–3, 2014, pp. 13–19.	☐
	32	"Hoffmann II Compact External Fixation System," Stryker, Brochure, Literature Number 5075-1-500, 2006, 12 pages.	☐
	33	"Hoffmann II Micro Lengthener," Stryker, Operative Technique, Literature Number 5075-2-002, 2008, 12 pages.	☐
	34	"Hoffmann Small System External Fixator Orthopedic Instruments," Stryker, retrieved December 19, 2014, from the Internet: <http://www.alibaba.com/product-detail/Stryker-Hoffmann-Small-System-External-Fixator_1438850129.html>, 3 pages.	☐
	35	MORTIER et al., "Axial Rotation of the First Metatarsal Head in a Normal Population and Hallux Valgus Patients," Orthopaedics and Traumatology: Surgery and Research, Vol. 98, 2012, pp. 677-683.	☐
	36	KIM et al., "A New Measure of Tibial Sesamoid Position in Hallux Valgus in Relation to the Coronal Rotation of the First Metatarsal in CT Scans," Foot and Ankle International, Vol. 36, No. 8, 2015, pp. 944-952.	☐
	37	"Lag Screw Target Bow," Stryker Leibinger GmbH & Co. KG, Germany 2004, 8 pages.	☐
	38	LAPIDUS, "The Author's Bunion Operation From 1931 to 1959," Clinical Orthopaedics, Vol. 16, 1960, pp. 119-135.	☐

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	
	Filing Date	
	First Named Inventor	Paul Dayton
	Art Unit	
	Examiner Name	
	Attorney Docket Number	71212.4.1.USC7

	39	LIESKE et al., “Implantation einer Sprunggelenktotalendo-prothese vom Typ Salto 2,” Operative Orthopädie und Traumatologie, Vol. 26, No. 4, 2014, pp. 401–413, including English Abstract on page 403.	☐
	40	MAC (Multi Axial Correction) Fixation System, Biomet Trauma, retrieved December 19, 2014, from the Internet: <http://footandanklefixation.com/product/biomet-trauma-mac-multi-axial-correction-fixation-system>, 7 pages.	☐
	41	MAGIN, “Computernavigierter Gelenkersatz am Knie mit dem Orthopilot,” Operative Orthopädie und Traumatologie, Vol. 22, No. 1, 2010, pp. 63-80, including English Abstract on page 64.	☐
	42	MAGIN, “Die belastungsstabile Lapidus-Arthrodese bei Hallux-valgus-Deformität mittels IVP-Plattenfixateur (V-TEK-System),” Operative Orthopädie und Traumatologie, Vol. 26, No. 2, 2014, pp. 184–195, including English Abstract on page 186.	☐
	43	Michelangelo Bunion System, Surgical Technique, Instratek Incorporated, publication date unknown, 4 pages.	☐
	44	Mini Joint Distractor, Arthrex, retrieved December 19, 2014, from the Internet: <http://www.arthrex.com/foot-ankle/mini-joint-distractor/products>, 2 pages.	☐
	45	MiniRail System, Small Bone Innovations, Surgical Technique, 2010, 24 pages.	☐
	46	MIYAKE et al., “Three-Dimensional Corrective Osteotomy for Malunited Diaphyseal Forearm Fractures Using Custom-Made Surgical Guides Based on Computer Simulation,” JBJS Essential Surgical Techniques, Vol. 2, No. 4, 2012, 11 pages.	☐
	47	Modular Rail System: External Fixator, Smith & Nephew, Surgical Technique, 2013, 44 pages.	☐
	48	MONNICH et al., "A Hand Guided Robotic Planning System for Laser Osteotomy in Surgery," World Congress on Medical Physics and Biomedical Engineering Vol. 25/6: Surgery, Nimimal Invasive Interventions, Endoscopy and Image Guided Therapy, September 7-12, 2009, pages 59-62, (Abstract Only).	☐
	49	MOORE et al., "Effect Of Ankle Flexion Angle On Axial Alignment Of Total Ankle Replacement," Foot and Ankle International, Vol. 31, No. 12, December 2010, pp. 1093-1098, (Abstract Only).	☐

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	
	Filing Date	
	First Named Inventor	Paul Dayton
	Art Unit	
	Examiner Name	
	Attorney Docket Number	71212.4.1.USC7

	50	YASUDA et al., "Proximal Supination Osteotomy of the First Metatarsal for Hallux Valgus," Foot and Ankle International, Vol. 36, No. 6, June 2015, pp. 696-704.	☐

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Signature	/Paul J. LaVanway, Jr./	Date (YYYY-MM-DD)	2024-03-25
Name/Print	Paul J. LaVanway, Jr.	Registration Number	64610

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Application Number: 18615875 Document Date: 03/25/2024

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