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Application Number	
Filing Date	
First Named Inventor	Jason Watson
Title	Fixation Base and Guides for Dental Prosthesis Installation
Art Unit	
Examiner Name	
Attorney Docket Number	J.WAT-003

SIGNATURE of Applicant or Patent Practitioner

Signature	/James A. Italia/	Date	10/17/2021
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Registration Number	56,549		

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*Total of 1 forms are submitted.

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59259

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- ☐ Legal Representative of a Deceased or Legally Incapacitated Inventor
- ☐ Assignee or Person to Whom the Inventor is Under an Obligation to Assign
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SIGNATURE of Applicant for Patent

Signature	/Jason Watson/	Date	10/17/2021
Name	Jason Watson	Telephone	818-973-2720
Title and Company	Applicant/Inventor		

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Electronic Patent Application Fee Transmittal				
Application Number:				
Filing Date:				
Title of Invention:		Fixation Base and Guides for Dental Prosthesis Installation		
First Named Inventor/Applicant Name:		Jason Watson		
Filer:		James Anthony Italia		
Attorney Docket Number:		J.WAT-003		
Filed as Small Entity				
Filing Fees for Utility under 35 USC 111(a)				
Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Basic Filing:				
UTILITY FILING FEE (ELECTRONIC FILING)	4011	1	80	80
UTILITY SEARCH FEE	2111	1	350	350
UTILITY EXAMINATION FEE	2311	1	400	400
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				
Miscellaneous:				
Total in USD (\$)				830

Electronic Acknowledgement Receipt

EFS ID:	44048390
Application Number:	17503359
International Application Number:	
Confirmation Number:	4207
Title of Invention:	Fixation Base and Guides for Dental Prosthesis Installation
First Named Inventor/Applicant Name:	Jason Watson
Customer Number:	59259
Filer:	James Anthony Italia
Filer Authorized By:	
Attorney Docket Number:	J.WAT-003
Receipt Date:	18-OCT-2021
Filing Date:	
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Payment was successfully received in RAM	\$830
RAM confirmation Number	E20210H120171334
Deposit Account	
Authorized User	

The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows:

File Listing:					
Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1		FixationBaseNPPACont.pdf	129092	yes	24
			0fd682e94dcfeab63667a8d7581013cc247d6aa7		
	Multipart Description/PDF files in .zip description				
	Document Description		Start	End	
	Specification		1	18	
	Claims		19	23	
	Abstract		24	24	
Warnings:					
Information:					
2	Drawings-only black and white line drawings	FIGS1thru12Z.pdf	2664987	no	19
			6d0839d5be9600d50b7927257512a59c0d9c3bdb5		
Warnings:					
Information:					
3	Oath or Declaration filed	Declaration.pdf	210668	no	3
			48c1c4acfd6c5db7e3d1d45d63f52dccc245a13e		
Warnings:					
Information:					
4	Application Data Sheet	ADS.pdf	1565774	no	7
			3f8ce7a3f78d4a5b52e6c628f5b43378f3d05ee7		
Warnings:					
Information:					
5	Power of Attorney	POAjson.pdf	213474	no	3
			04d8114527e54008d82c35c37f7d78684cb3fc6		

3DDX Exhibit 1002 Page 7 of 243

Warnings:					
Information:					
6	Fee Worksheet (SB06)	fee-info.pdf	44060	no	2
			1e745404e6bc2e67f851fa2183a2db0a04d9ff04		
Warnings:					
Information:					
Total Files Size (in bytes):			4828055		
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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

A Non-Provisional Patent Application for:

Fixation Base and Guides for Dental Prosthesis Installation

Invented by:

Jason Watson

CROSS-REFERENCE TO RELATED APPLICATIONS

This is a continuation application of Application Serial No. 15/984,309, which has a filing date of May 18, 2018 and claims priority to Application Serial Number 62/508,377, filed May 18, 2017, the contents of both applications are incorporated herein by this reference.

FIELD OF THE INVENTION

The present invention relates to method and apparatus for installing a prefabricated dental prosthesis in the mouth of a patient.

BACKGROUND OF THE INVENTION

For some dental patients, a multi-tooth prosthesis must be installed in a jaw. While multi-tooth prostheses have been developed for anchorage via implants, existing methods and apparatuses for accomplishing such installations are complex, and require considerable time for completion.

SUMMARY OF THE INVENTION

The present invention improves on prior art prosthesis installations by providing a

method enabling installation of a multi-tooth prosthesis anchored in implants. The entire procedure can be completed in one session at a dental practitioner. The resulting installation is usable shortly after the procedure has been completed.

The procedure is based on geometric dental guides and a prosthesis all of which are designed around images taken of the patient anatomy. A first tool is attachable to the jawbone, and provides geometrically correct reference points for subsequent operations. The first tool, called a fixation base hereinafter, locates other important geometric dental guides, and remains in place on the dental anatomy for most of the procedure. Installation of the fixation base may be accomplished in conjunction with a second tool, called a mouthpiece hereinafter. The mouthpiece is formed to more of the maxillary or mandibular structure than that contacted by the fixation base from the images, and assists in appropriately setting the fixation base in appropriate location. The mouthpiece may be removed after installation of the fixation base.

With only the fixation base installed, undesired teeth, previously installed dental fixtures, and obstructive body tissues are removed from the work site. Exposed maxillary or mandibular bone is then recontoured by abrasive removal of tissue. The fixation base may be formed with a guide surface to guide a powered reciprocating abrading tool. Alternatively, a separate guide may be provided.

A third dental guide, hereinafter called an abutment guide base, may then be installed to the fixation base. The abutment guide base has holes in abutment sites, and is used to confirm appropriate preparation of the maxillary or mandibular bone tissue. The

abutment guide base may then be removed.

Using a fourth tool, a drill guide installed to the fixation base, holes for implants are drilled into the exposed and recontoured bone. Implants are installed in the drilled holes. The drill guide may then be removed, leaving the fixation base in place.

The abutment guide base is installed to the fixation base, and abutments are installed. The abutment guide base has notches appropriately located to index each abutment for appropriate angular orientation on its associated implant.

Copings are then installed using the abutments. The prefabricated prosthesis is then installed over the copings. A settable resin is then applied to bond the copings to the prosthesis. The prosthesis, now integrated with the copings, is removed so that the abutment guide base and fixation base may be removed.

Appropriate restorative steps for the patient's anatomy are then performed, such as suturing the gums.

The prosthesis is then installed for use. A resinous filler material is applied to fill recesses, e.g., gaps between the prosthesis and copings exposed on rearwardly facing surfaces of the prosthesis. The filler is cured and appropriately sanded smooth.

The above steps are summarized, and do not include minor conventional steps such as irrigation. Once the steps are completed, the installation is complete, and may be used by the patient.

The present invention provides improved elements and arrangements thereof by apparatus for the purposes described which is inexpensive, dependable, and fully

effective in accomplishing its intended purposes.

These and other objects of the present invention will become readily apparent upon further review of the following specification and drawings.

BRIEF DESCRIPTION OF THE DRAWINGS

Various objects, features, and attendant advantages of the present invention will become more fully appreciated as the same becomes better understood when considered in conjunction with the accompanying drawings, in which like reference characters designate the same or similar parts throughout the several views, and wherein:

Fig. 1 is an environmental plan view of a fixation base used to install a dental prosthesis, according to at least one aspect of the invention;

Fig. 2 is a front view of maxillary and mandibular prostheses, shown with apparatus of the invention attached thereto, and fixed to models of maxillary and mandibular jawbones;

Fig. 3 is an enlarged detail view of a portion of the fixation base of Fig. 1;

Fig. 4 is a plan view of the fixation base of Fig. 1, shown attached to a mouthpiece;

Fig. 5A is a plan view of a drill guide attached to the fixation base (the latter first shown in Fig. 1);

Fig. 5B corresponds to Fig. 5A, but shows the drill guide and fixation base as installed in an actual patient;

Fig. 6 is a plan view of an abutment guide, to be attached to the fixation base of

Fig. 1;

Fig. 7 is a plan view of a bone reduction guide next to the fixation base of Fig. 1;

Fig. 8 is an environmental plan view of the fixation base of Fig. 1 installed to actual patient anatomy;

Fig. 9 is an environmental plan view of an abutment guide in use on an actual patient;

Fig. 10 is an environmental front view of the fixation base of Fig. 1, installed on a patient during fitting of a prosthesis over installed copings;

Fig. 11 is an environmental plan view of a prosthesis and implants against a patient, with the fixation base of Fig. 1 installed;

Fig. 12A is a view showing an exemplary embodiment of the fixation base with mouthpiece guide attached thereto;

Fig. 12B is a view showing the fixation base with mouthpiece guide of Fig. 12A starting to be placed on a patient's teeth;

Fig. 12C a view showing the fixation base with mouthpiece guide of Fig. 12A properly fitted on a patient's teeth and with holes drilled and hammered in insertion pins;

Fig. 12D a view showing the fixation base once secured having the mouthpiece guide removed by unlocking the pins and removing the mouthpiece guide;

Fig. 12E a view showing teeth being removed;

Fig. 12F a view showing bone being removed using the fixation base with an integrated bone reduction guide so that bone is flush with the fixation base;

Fig. 12G is a view showing the drill guide being attached to the fixation base;

Fig. 12H is another view showing the drill guide attached to the fixation base;

Fig. 12I is a view showing holes being drilled and setting implants, with the location, depth, and angles being managed through the drill guide and drill kit;

Fig. 12J is a view showing the drill guide removed and the abutment guide being attached to the fixation base;

Fig. 12K is a view showing the abutment Guide mounted to the fixation base via locking pins;

Fig. 12L is a view showing the abutments being attached to implants via holes in the abutment guide;

Fig. 12M is a view showing a notch in the hole where attachment screws are located to ensure proper positioning of the abutments;

Fig. 12N is a view showing copings being attached to abutments;

Fig. 12O is a view showing test fitment of the prosthesis and then removal;

Fig. 12P is a view showing the prosthesis mounted to the abutment jib, and screwing in the prosthesis to the abutments via the copings;

Fig. 12Q is a view showing inserting epoxy to fuse the prosthesis to the copings;

Fig. 12R is a view showing unscrewing the prosthesis from the abutments;

Fig. 12S is another view showing the prosthesis being removed from the abutments;

Fig. 12T is a view showing epoxy fusing the copings to the prosthesis;

Fig. 12U is a view showing the abutment guide being removed from the fixation base;

Fig. 12V is another view showing the abutment guide being removed from the fixation base;

Fig. 12W is a view showing the abutments properly set and the fixation base being removed;

Fig. 12X is a view showing the fixation base removed and with the gums being sutured together around the abutments;

Fig. 12Y is a view showing the prosthesis being reinserted and mounted to the abutments via screws through the copings; and,

Fig. 12Z is a view showing the prosthesis being mounted.

DETAILED DESCRIPTION

Referring first to Fig. 1, according to at least one aspect of the invention, there is shown apparatus for installing a dental prosthesis 10 (see Fig. 2) to a maxillary or mandibular jaw bone (see Figs 10 and 11) of a patient 14 (Fig. 5B) in a single session, using implants 16 (see Fig. 11). The apparatus may comprise a fixation base 100 for providing an attachment surface for other apparatus used to orient implants 16, abutments 18 (Fig. 9), copings 20, and dental prosthesis 10 during an installation procedure.

Fixation base 100 may further comprise a generally arcuate base member 102 having a front surface 104 bearing a plurality of fasteners 112, a rear surface 108 configured and dimensioned to fit flushly against a maxillary or mandibular bone structure of the patient,

and a horizontal surface 110 bearing first attachment elements 106 for engagement of a first dental guide 122 (see Fig. 4) usable with fixation base 100, and wherein fixation base 100 is non-anatomical.

Fixation base 100 is usable with either the mandibular or maxillary jaw bone, as seen in Fig. 2, which uses artificial models 22 of jawbones. Hence, orientation of fixation base 100 changes with use. Description herein will focus on maxillary use, it being understood that the same principles apply for mandibular use. With discussion directed to maxillary use, orientational terms will assume that the head of the patient is facing forwardly in a normal position that would occur with the patient standing straight on his or her legs. Alternatively stated, it is assumed for purposes of discussion that the maxillary jawbone is above the novel apparatus. Therefore, orientational terms such as vertical, horizontal, forwardly, and rearwardly must be understood to provide semantic basis for purposes of description, and do not limit the invention or its component parts in any particular way.

Fixation base 100 provides not only an attachment surface for other apparatus, but also locates the other apparatus precisely for the dental procedure. Fasteners 112 may be nails, for example. Close fitting holes are drilled into the maxillary jawbone to receive fasteners 112. First attachment elements 106 may comprise pins, threaded bolts, or other manually removable fasteners, and are made to cooperate with corresponding openings in the other apparatus to be mounted on fixation base 100. Fixation base 100 is non-anatomical, being fabricated from a metal, metal alloy, or other strong material. Fixation

base 100 may be fabricated for example by three dimensionally printing using a chromium cobalt alloy.

Unless otherwise indicated, the terms "first", "second", etc., are used herein merely as labels, and are not intended to impose ordinal, positional, or hierarchical requirements on the items to which these terms refer. Moreover, reference to, e.g., a "second" item does not either require or preclude the existence of, e.g., a "first" or lower-numbered item, and/or, e.g., a "third" or higher-numbered item.

In one example of the invention, fixation base 100 comprises a plurality of bosses 114 (see Fig. 1) extending radially from the front surface, including bores 116 (see Fig. 3) for receiving and aligning first attachment elements 106. Fixation base 100 may also comprise a plurality of slots 118 for accepting tabs (not shown) of the first dental guide 122. Bosses 114 provide effective guidance surface for attachment elements 106, while minimizing mass of fixation base 100. This characteristic enables the dental practitioner to view the work site more effectively than would be the case if fixation base 100 were larger, thereby obscuring the work site.

Although fixation base 100 is utilized by itself, properly locating fixation base 100 will likely require an additional guide component. To this end, and referring especially to Fig. 4, the apparatus may further comprise first dental guide 122, wherein first dental guide 122 is a mouthpiece configured and dimensioned to surround teeth (not shown) of the patient, and to releasably attach to fixation base 100. First dental guide 122 may comprise a plurality of tabs (not shown, but similar to tabs 140, Fig. 6) corresponding in

configuration to slots 118 (Fig. 1) extending toward and fitting closely with slots 118 of fixation base 100. First dental guide 122 engages fixation base 100 by interfit between slots 118 of fixation base 100 and the tabs of first dental guide 122. The purpose of first dental guide 122 is to assist in locating fixation base 100 with sufficient precision to assure successful installation of dental prosthesis 10. Therefore, first dental guide 122 is used when installing fixation base 100 in the mouth, but is removed thereafter and plays no further role. Subsequently used dental guides use tabs corresponding to those of first dental guide 122, in the same way, and to the same end, that of precisely locating the subsequently used dental guides prior to fixing the latter using attachment elements 106.

The apparatus may further comprise a second dental guide 124, wherein second dental guide 124 is a drill guide for guiding drilling of holes for implants 16. The drill guide is attachable to fixation base 100 in a position wherein the drill guide is in vertical registry with the maxillary or mandibular jaw bone. The drill guide may include a seating feature cooperating with attachment elements 106 of fixation base 100, and a plurality of generally vertical bores 126 corresponding in location to and in axial registry with intended implant sites. The recited structure both pins second dental guide 124 securely to fixation base 100, and also properly orients vertical bores 126 relative to bone tissue, to assure appropriate orientation of implant holes drilled into the jaw. Second dental guide 124 may include stops (not separately shown) within bores 126, to prevent excessive penetration of drills into bone tissue. These stops may comprise e.g. shoulders interfering with the drill.

Referring particularly to Fig. 5A, the drill guide may be made from a metal or metallic alloy, and comprises a support bar 128 attachable to fixation base 100 (via attachment elements 106), one boss 130 for each one of vertical bores 126, bosses 130 attached to support bar 128 by arms 132 such that voids 134 exist between bosses 130 and support bar 128. Voids 134 enable direct observation of patient anatomy and insertion of irrigation and evacuation apparatus.

With reference to Fig. 6, the apparatus may further comprise a third dental guide 136. Third dental guide 136 is an abutment guide base including bores 138 sized and oriented to receive abutments 18 and guide abutments 18 for placement against implants 16. The abutment guide base is attachable to fixation base 100 in a position wherein bores are in vertical registry with the maxillary or mandibular jaw bone and implants 16 after installation of the latter.

In summary, apparatus of the invention may include fixation base 100, serving as a foundation for supporting subsequently used guides. Fixation base 100 may also have one edge or surface formed for use as a guide when removing bone tissue, as will be described hereinafter. As an alternative to forming one edge or surface of a guide, the apparatus may include a separate bone reduction guide 142 (Fig. 7). Bone reduction guide 142 has attachment structure cooperating with slots 118 and attachment elements 106 of fixation guide 100, and a surface against which an appropriate bone removal tool (not shown) may be moved while abrading bone tissue.

The apparatus may include first dental guide 122 to properly locate fixation base

100, second dental guide 124 as a drill guide, and third dental guide 136 to place abutments and to visually check alignments.

Exemplary methods of using the above apparatus to install multi-tooth dental prosthesis 10 will now be set forth.

A method of installing multi-tooth dental prosthesis 10 (e.g., as shown in Fig. 2) in a mouth of a patient may comprise obtaining anatomical data from the mouth of the patient; and from the obtained data, designing and fabricating dental prosthesis 10, fixation base 100 to serve as a mounting jig for other dental guides, an abutment guide base (third dental guide 136) to assure appropriate location of subsequently installed implants and abutments, and a drill guide (second dental guide 124) to assure appropriate location and orientation of holes to be drilled for implants 16.

The method may include installing fixation base 100 to maxillary or mandibular bone tissue of the patient; removing at least one of natural teeth, dental fixtures, and obstructive mouth tissues (none of these is shown) from the work site, to expose an underside of the maxillary or mandibular bone tissue.

The method may comprise recontouring the bone tissue (by bone removal); drilling implant holes into the recontoured bone tissue, using the drill guide attached to fixation base 100; installing implants 16; removing the drill guide (second dental guide 124); installing abutments 18, and using the abutment guide base (third dental guide 136) attached to fixation base 100.

The method may include installing copings 20 to abutments 18; installing dental

prosthesis 10 over copings 20; bonding copings 20 to dental prosthesis 10; removing dental prosthesis 10, the abutment guide base (third dental guide 136) and fixation base 100; and permanently installing dental prosthesis 10 to abutments 18.

Anatomical data may be obtained via CT scans or other imagery techniques. From these images, one of skill in the dental arts may design a suitable prosthesis, and the apparatus described above.

The above is a description of a simplified or basic method. In the basic method, medically advisable procedures and steps such as irrigation are ignored to avoid obscuring the novel method. The basic method may be enhanced with the following additional steps.

The method may further comprise, after installing fixation base 100 to maxillary or mandibular bone tissue of the patient, cutting back gum tissue to expose forwardly facing surfaces of the bone tissue. This enables solid seating of fixation base 100 against relatively rigid anatomical features, so that geometric integrity is preserved when relying on fixation base 100 to locate other guides.

In the method, installing fixation base 100 to maxillary or mandibular bone tissue of the patient may further comprise drilling holes into the exposed forwardly facing surfaces of the bone tissue, and driving fasteners through fixation base 100 into the drilled holes, to secure fixation base 100 to the maxillary or mandibular bone. Using driven fasteners such as nails provides a relatively expeditious yet robust way of securing fixation base 100 to the bone tissue.

The method may further comprise designing and fabricating a mouthpiece (first dental guide 122, Fig. 4) from the obtained data of the mouth of the patient, wherein the mouthpiece complements fixation base 100 by conforming to some surfaces of the mouth of the patient not covered by fixation base 100. The method may further comprise using the mouthpiece to assist in locating fixation base 100 appropriately when installing fixation base 100 to maxillary or mandibular bone tissue of the patient, and removing the mouthpiece after installing fixation base 100 to the maxillary or mandibular bone tissue. As stated previously, including the mouthpiece enhances accuracy and geometric integrity of the installation, when compared to placing and relying solely on fixation base 100. It also enables fixation base 100 to be of minimal bulk, thereby affording better viewing of the procedure by the dental personnel.

In the method recontouring the bone tissue may comprise using a preformed surface on fixation base 100 to guide a bone removal tool (not shown). In Fig. 8, fixation base 100 includes a surface formed to guide the bone removal tool. As may be seen in this view of actual patient anatomy, bulk of fixation base 100 is not excessive, and reduced bone tissue remains in full view to the dental practitioner.

Referring to Fig. 7, in the method, recontouring the bone tissue may comprise using a bone removal guide 142 separate from fixation base 100 to guide a bone removal tool. Bone removal guide 142 may accommodate a revision to the desired contours, which revision may possibly not be reflected in or possible with fixation base 100. It may be, for example, that fixation base 100 was formed outside of specified geometric

parameters. In this situation, fixation base 100 may nonetheless still be utilized.

In the method, installing abutments 18 may include adjusting the abutments to appropriate angular orientations relative to a central axis of associated implants 16 using pre-established indicators in the abutment guide base. Referring to Figs. 6 and 9, a bore 138 for an abutment 18 may include a notch 144 serving as an indicator for appropriate angular or rotational orientation of abutment 18. In Fig. 9, a tool such as a small screwdriver occupies notch 144 while another tool rotates abutment 18 appropriately.

In the method, installing dental prosthesis 10 over copings 20 and bonding copings 20 to dental prosthesis 10 may further comprise applying a blocking material to seal holes in the dental prosthesis for receiving abutments 18, and applying a settable resin spanning copings 20 and dental prosthesis 10. The settable resin seals gaps that would otherwise exist between copings 20 and dental prosthesis 10. This solidifies dental prosthesis 10 and copings 20 as a single component, and may discourage deposits of food and resultant growth of bacterial colonies.

The method of may further comprise, after removing dental prosthesis 10 after bonding copings 20 to dental prosthesis 10 and removing dental prosthesis 10, the abutment guide base (third dental guide 136, Fig. 6), and fixation base 100, verifying geometric orientations of attachment points for dental prosthesis 10. Fig. 10 shows a test fitment of dental prosthesis 10 in an actual patient after removal of third dental guide 136, although fixation base 100 has been left in place. Verification of attachment points may prevent a faulty installation going unnoticed until after the patient has left the dental

office.

The method may further comprise, after removing dental prosthesis 10, the abutment guide base (third dental guide 136, Fig. 6), the fixation base 100, and prior to permanently installing dental prosthesis 10 to abutments 18, suturing gums of the patient in positions against the dental prosthesis. This reestablishes protections provided by gum tissue.

In the method, permanently installing the dental prosthesis may further comprise screwing dental prosthesis 10 to implants 10 or to abutments 18. While the latter is conventional, screwing dental prosthesis 10 in place to one or the other allows for subsequent removal, should that become necessary. In this context, permanent installation refers to ability of the patient to use the newly installed dental prosthesis 10 without further professional attention by the dental practitioner.

In the method, permanently installing dental prosthesis 10 may further comprise applying a filler material to fill recesses in a rearwardly facing surface of dental prosthesis 10. This may improve esthetics of the installation, and may eliminate places for food to lodge and bacteria to grow. Ordinarily, applied filler material is smoothed after curing, such as by sanding.

Figs. 12A-12Z show step by step details of the aforementioned method of the invention. Fig. 12A is a view showing an exemplary embodiment of the fixation base 100 with mouthpiece guide 122 attached thereto. Fig. 12B is a view showing the fixation base 100 with mouthpiece guide 122 of Fig. 12A starting to be placed on a patient's teeth. Fig.

12C a view showing the fixation base 100 with mouthpiece guide 122 of Fig. 12A properly fitted on a patient's teeth and with holes drilled and hammered in insertion pins 112. Fig. 12D a view showing the fixation base 100 once secured having the mouthpiece guide 122 removed by unlocking the pins 106 and removing the mouthpiece guide 122. Fig. 12E a view showing teeth being removed. Fig. 12F a view showing bone being removed using the fixation base 100 with an integrated bone reduction guide so that bone is flush with the fixation base 100. Fig. 12G is a view showing the drill guide 124 being attached to the fixation base 100 and Fig. 12H is another view showing the drill guide 124 attached to the fixation base 100. Fig. 12I is a view showing holes being drilled and setting implants, with the location, depth, and angles being managed through the drill guide 124 and drill kit (not shown). Fig. 12J is a view showing the drill guide 124 and the abutment guide (also sometimes called abutment jig) 136 being attached to the fixation base 100, and Fig. 12K is a view showing the abutment guide 136 mounted to the fixation base 100 via locking pins 106. Fig. 12L is a view showing the abutments 18 being attached to implants 16 via holes 160 in the abutment guide 136. Fig. 12M is a view showing a notch 144 in the hole where attachment screws are located to ensure proper positioning of the abutments. Fig. 12N is a view showing copings 20 being attached to abutments 18. Fig. 12O is a view showing test fitment of the prosthesis 10 and then removal. Fig. 12P is a view showing the prosthesis 10 mounted to the abutment guide 136 and screwing in the prosthesis 10 to the abutments via the copings 20. Fig. 12Q is a view showing inserting epoxy to fuse the prosthesis 10 to the copings 20. Fig.

12R is a view showing unscrewing the prosthesis 10 from the abutments 18. Fig. 12S is another view showing the prosthesis 10 being removed from the abutments 18. Fig. 12T is a view showing epoxy fusing the copings 20 to the prosthesis 10. Fig. 12U and 12V are views showing the abutment guide 136 being removed from the fixation base 100. Fig. 12W is a view showing the abutments 18 properly set and the fixation base removed. Fig. 12X is a view showing the fixation base removed and with the gums being sutured together around the abutments 18. Fig. 12Y is a view showing the prosthesis 10 being reinserted and mounted to the abutments 18 via screws through the copings 20. Lastly, Fig. 12Z is a view showing the prosthesis 10 being mounted. While the present invention has been described in connection with what is considered the most practical and preferred embodiment, it is to be understood that the present invention is not to be limited to the disclosed arrangements, but is intended to cover various arrangements which are included within the spirit and scope of the broadest possible interpretation of the appended claims so as to encompass all modifications and equivalent arrangements which are possible.

While the present invention has been described in connection with what is considered the most practical and preferred embodiment, it is to be understood that the present invention is not to be limited to the disclosed arrangements, but is intended to cover various arrangements which are included within the spirit and scope of the broadest possible interpretation of the appended claims so as to encompass all modifications and equivalent arrangements which are possible.

CLAIMS

I claim:

1. A method of installing a multi-tooth dental prosthesis in a maxillary or mandibular position in a mouth of a patient, the method comprising:

providing a dental prosthesis for the maxillary or mandibular positioning in the patient's mouth,

utilizing a fixation base to serve as a mounting jig for a plurality of other dental guides comprising a first dental guide, a second dental guide, and a third dental guide, wherein the fixation base comprises a generally arcuate shape with a front surface that has a plurality of openings through which fasteners can be passed, a rear surface, and a horizontal surface bearing first attachment elements for engagement of the dental guides used in the prosthesis installation;

utilizing the first dental guide, wherein the first dental guide is a mouthpiece that attaches to the fixation base and is used to assure appropriate location to attach the fixation base to the maxillary or mandibular bone tissue of said patient;

installing the fixation base to the maxillary or mandibular bone tissue of said patient;

removing the mouthpiece from the installed fixation base;

removing at least one of natural teeth, dental fixtures, and obstructive mouth tissues from the work site, to expose an underside of the maxillary or mandibular bone tissue;

recontouring the bone tissue;

utilizing the second dental guide, wherein the second dental guide is a drill guide that attaches to the installed fixation base to assure appropriate location and orientation of holes to be drilled for the subsequently installed implants;

drilling the implant holes in the recontoured bone tissue using the drill guide attached to the fixation base;

removing the drill guide from the installed fixation base;

utilizing the third dental guide, wherein the third dental guide is an abutment guide base that attaches to the installed fixation base to assure appropriate location for the subsequently installed abutments;

installing the abutments, using the abutment guide base attached to the fixation base;
and,

installing said dental prosthesis to the abutments.

2. The method of claim 1, wherein installing the fixation base to maxillary or mandibular bone tissue of the patient further comprises:

drilling holes into the exposed forwardly facing surfaces of the bone tissue through the plurality of openings in the fixation base, and

driving fasteners through the fixation base into the drilled holes, to secure the fixation base to the maxillary or mandibular bone.

3. The method of claim 1, wherein the step of recontouring the bone tissue comprises using a preformed surface on the installed fixation base to assure proper recontouring of the bone tissue.

4. The method of claim 1, wherein the step of recontouring the bone tissue comprises utilizing a fourth guide apparatus, wherein the fourth guide apparatus is a bone reduction guide that attaches to the installed fixation base to assure proper recontouring of the bone tissue.

5. The method of claim 1, wherein installing the abutments includes adjusting the abutments to appropriate angular orientations relative to a central axis of associated implants using pre-established indicators in the abutment guide base.

6. An apparatus for installing a dental prosthesis to maxillary or mandibular jaw bone of a patient, the apparatus comprising:

a fixation base for providing an attachment surface for a dental guide used during a dental prosthesis installation procedure, the fixation base further comprising a generally arcuate base member with a front surface that includes a plurality of openings through which fasteners can be passed, a rear surface, a horizontal surface, and manually releasable attachment elements for attachment of a dental guide used during a prosthesis installation to the fixation base.

7. The apparatus of claim 6, wherein the manually releasable attachment elements of the fixation base includes:

a plurality of slots in said horizontal surface of said fixation base for accepting tabs located on the dental guide; and

bores and bosses extending radially from the front surface of said fixation base.

8. The apparatus of claim 6, further comprising a first dental guide, wherein the first dental guide is a mouthpiece configured and dimensioned to surround teeth of the patient and to releasably attach to the fixation base and to be removed after the fixation base is affixed to the maxillary or mandibular bone structure of a patient.

9. The apparatus of claim 6, wherein the manually releasable attachment elements of the fixation base includes a plurality of slots in the horizontal surface of said base member of the fixation base, wherein the dental guide includes a plurality of tabs extending toward and fitting closely with the slots of the fixation base, whereby the dental guide engages the fixation base by interfit between the slots of the fixation base and the tabs of the guide apparatus.

10. The apparatus of claim 6, further comprising a second dental guide, wherein the second dental guide is a drill guide for guiding drilling of holes for the implants, the drill guide attachable to the fixation base in a position wherein the drill guide is in vertical registry with the maxillary or mandibular jaw bone, the drill guide including a seating feature cooperating with the attachment elements of the fixation base, and a plurality of generally vertical bores corresponding in location to and in axial registry with intended implant sites.

11. The apparatus of claim 10, wherein the drill guide is made from a metal or metallic alloy, and comprises a support bar attachable to the fixation base, a plurality of bosses with one boss for each one of the vertical bores, the bosses located rearwardly of the support bar and attached to the support bar by arms such that voids exist between the bosses and the support bar, the voids enabling direct observation of patient anatomy and insertion of irrigation and evacuation apparatus.

12. The apparatus of claim 6, further comprising a third dental guide, wherein the third dental guide is an abutment guide base including:

bores sized and oriented to receive abutments and guide the abutments for placement against the implants, and wherein

the abutment guide base is attachable to the fixation base in a position wherein the bores are in vertical registry with the maxillary or mandibular jaw bone and the implants.

13. A method of installing a fixation base in a maxillary or mandibular position in a mouth of a patient, the method comprising:

obtaining anatomical data of at least some of the surfaces of the maxillary or mandibular portion of the mouth of the patient;

utilizing a fixation base, wherein the fixation base comprises a generally arcuate shape with a front surface that has a plurality of openings through which fasteners can be passed through, a rear surface, and attachment elements;

utilizing a mouthpiece generated at least in part from the obtained anatomical data;

attaching the mouthpiece to the fixation base using said attachment elements;

installing the mouthpiece onto at least some surfaces of the maxillary or mandibular portion of the mouth of the patient to assist in positioning the fixation base appropriately prior to installing the fixation base to maxillary or mandibular bone tissue of the patient;

installing the fixation base to the maxillary or mandibular portions of the patient using fasteners through said plurality of openings in said front surface of the fixation base; and

detaching the mouthpiece from the fixation base using said attachment elements.

ABSTRACT

Apparatus and method for installing a multi-tooth dental prosthesis in one session are shown and described. A first tool attaches to the jawbone, and serves as a foundation for subsequently used guides. Existing teeth and dental fixtures are removed, and the bone tissue is removed to accommodate the prosthesis. Subsequently, a drill guide is used to drill implant holes. An abutment guide is then used to place abutments. Copings are then installed. Next, the prosthesis may be installed and cemented to the copings. A resinous filler material may be applied to fill gaps and holes in and between the copings and the prosthesis, and is sanded smooth.

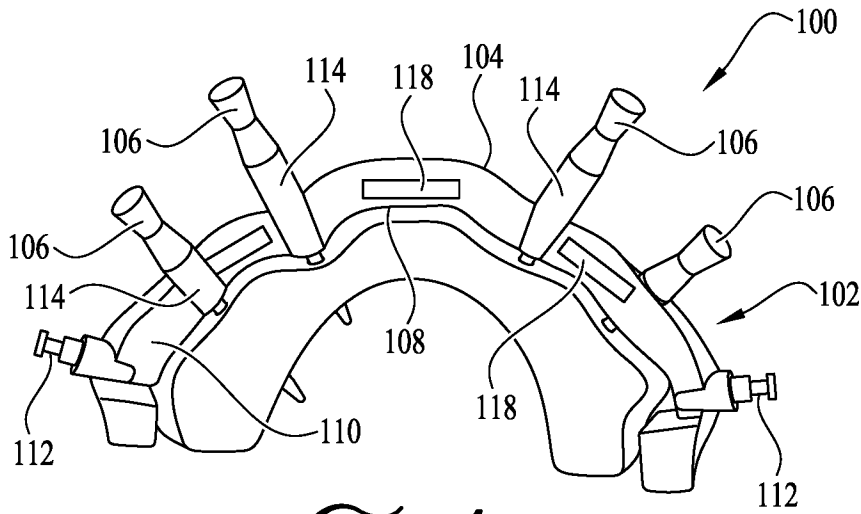


Fig. 1

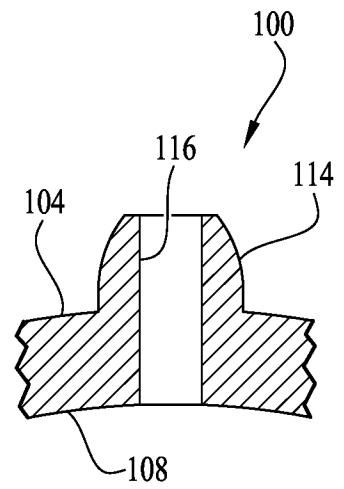


Fig. 3

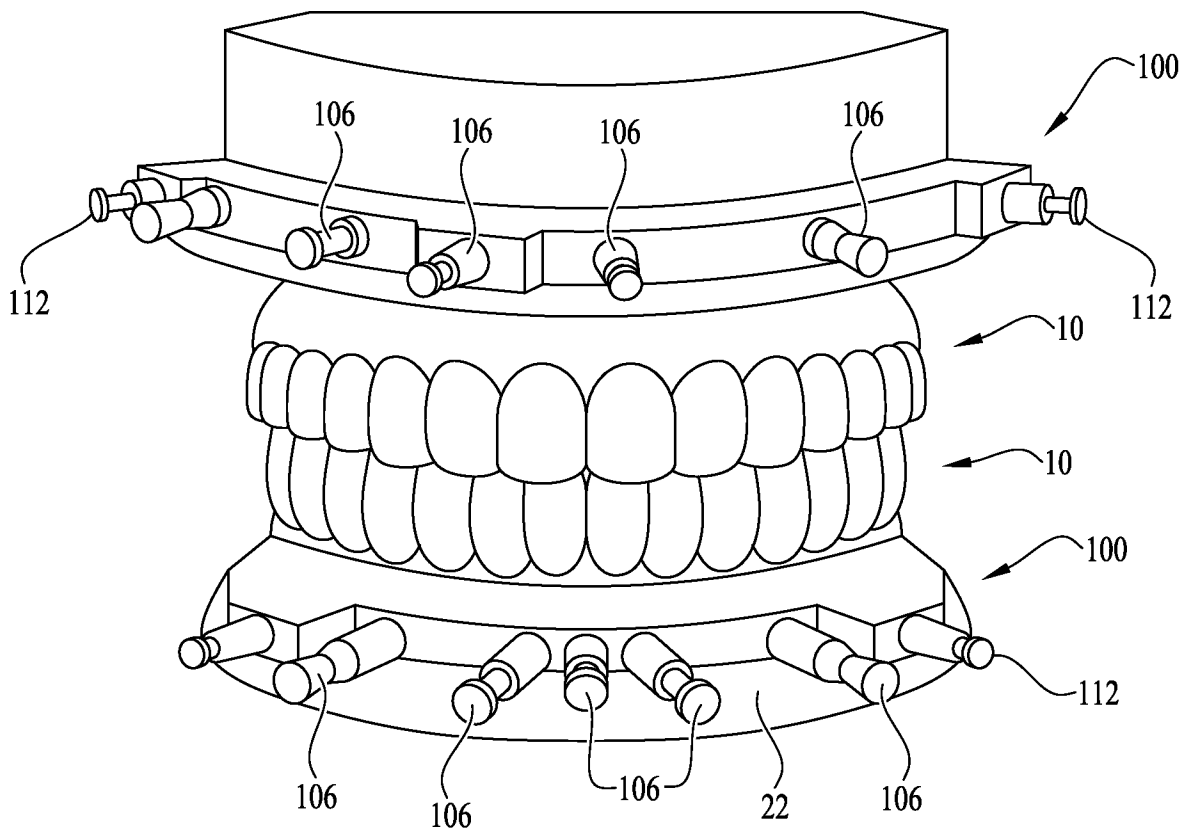


Fig. 2

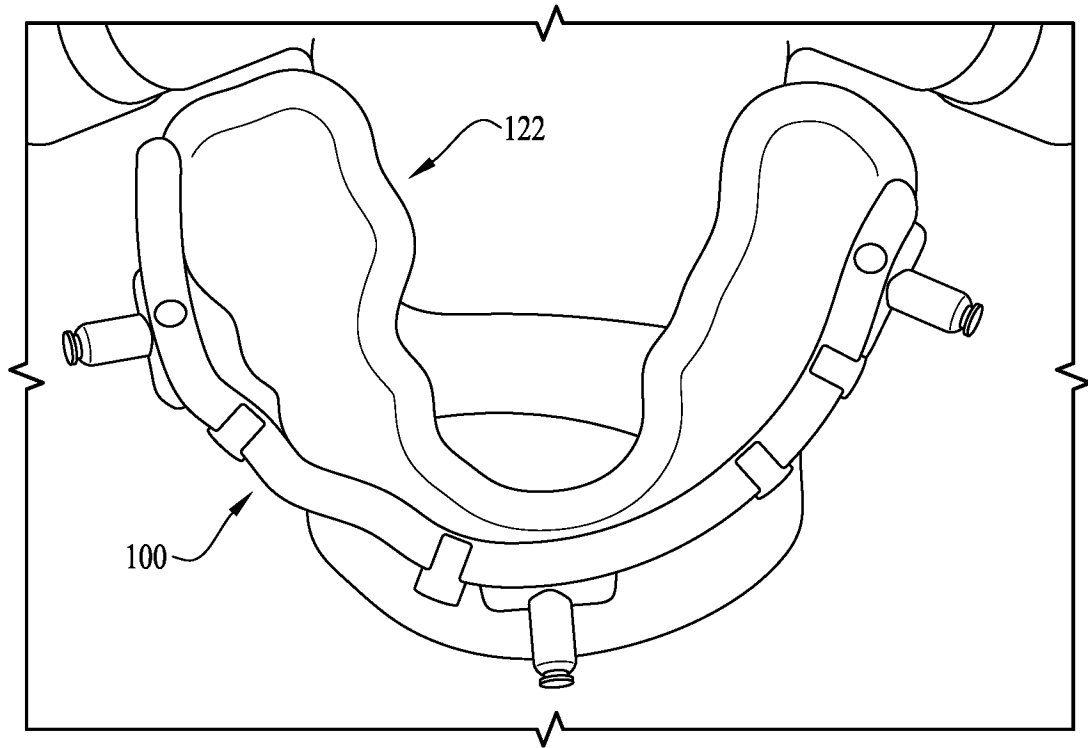


FIG. 4

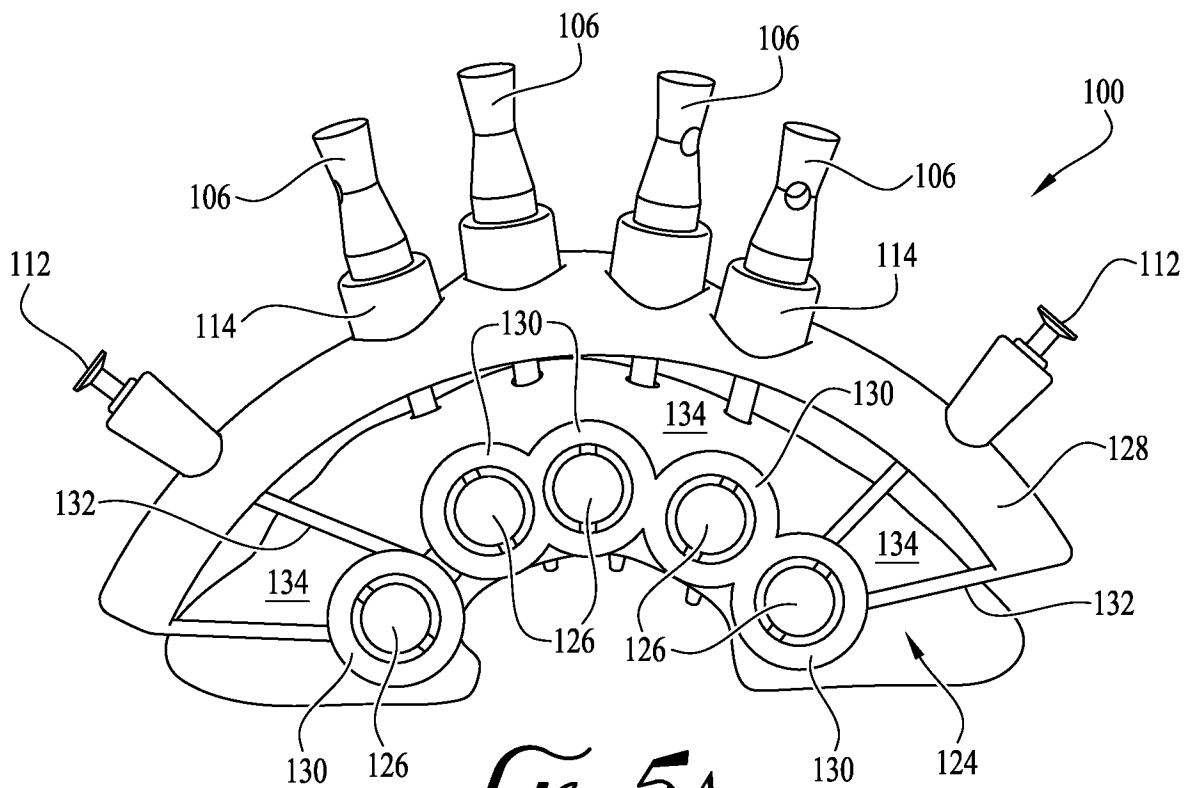


FIG. 5A

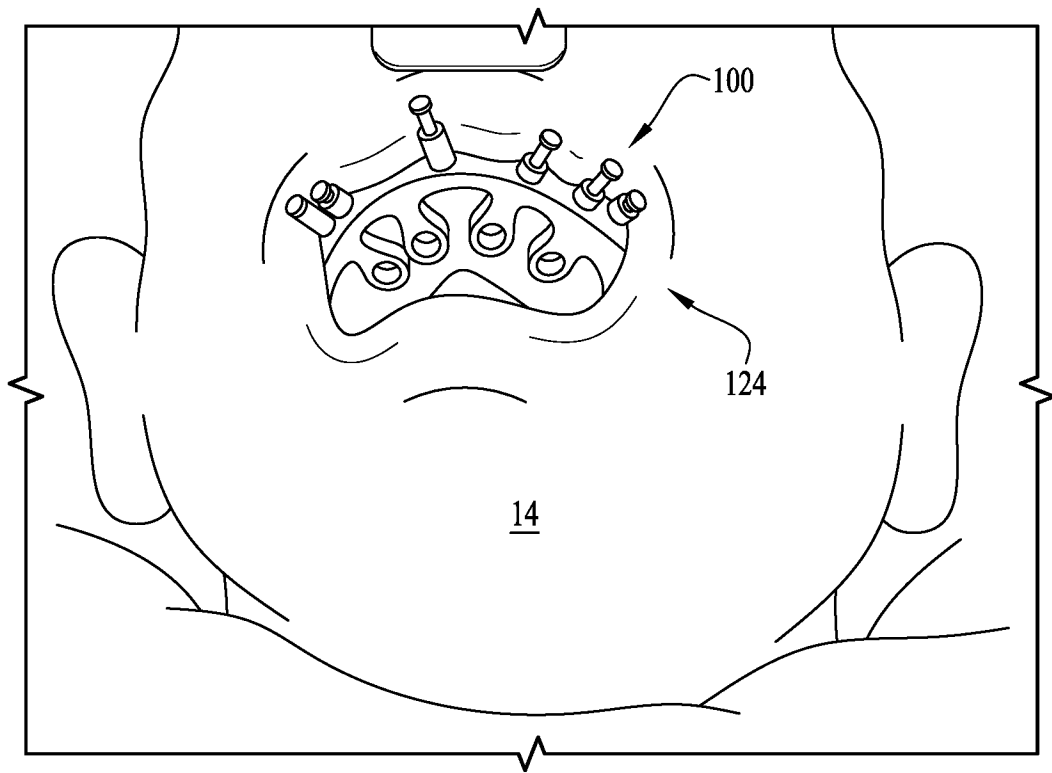


FIG. 5B

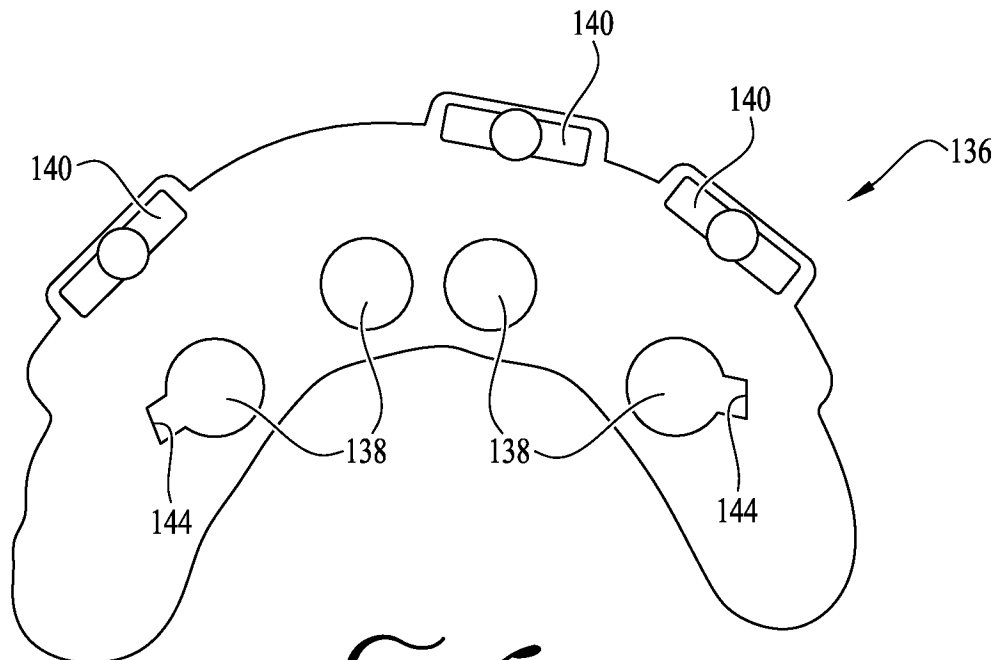
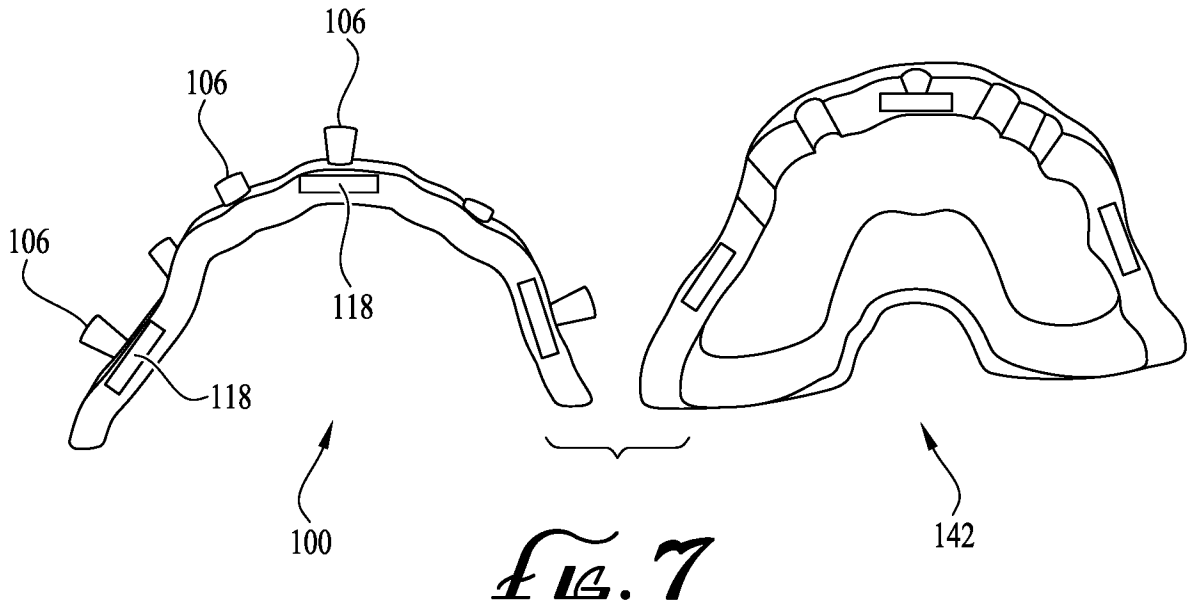
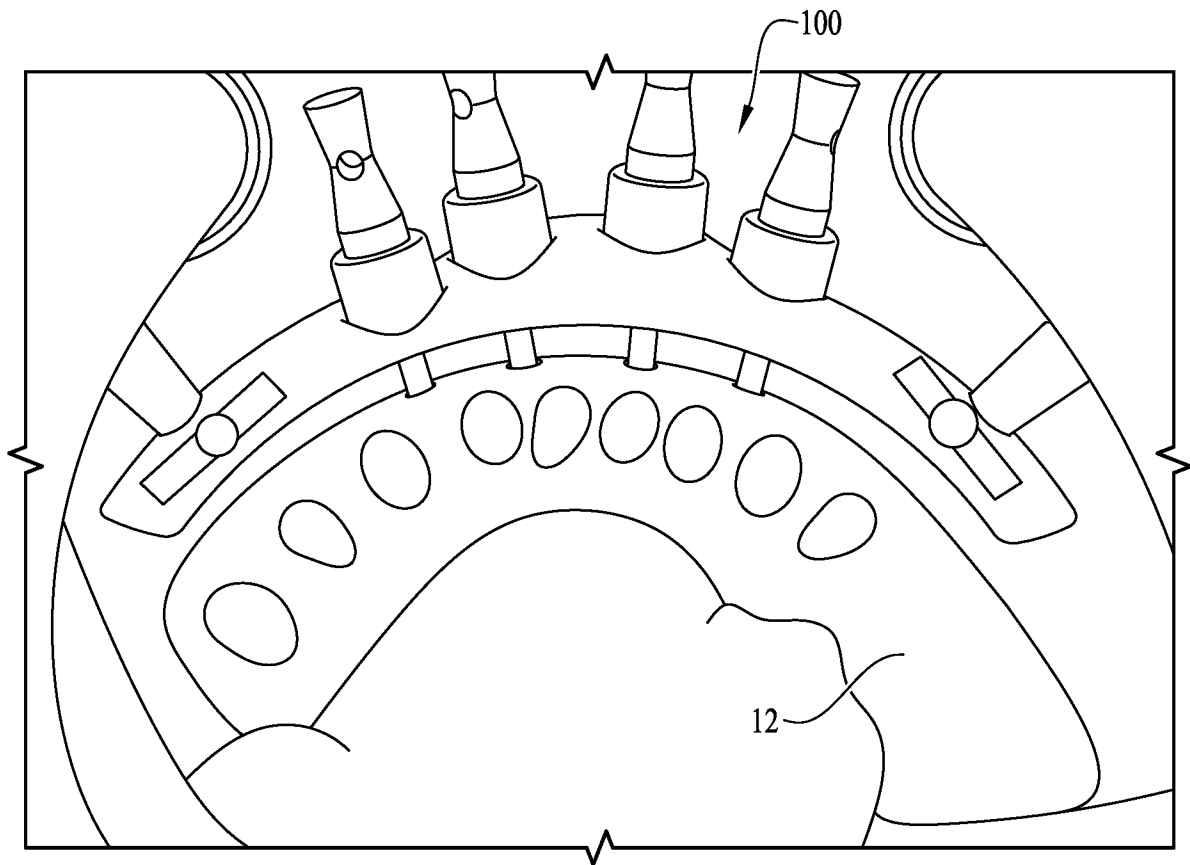


FIG. 6



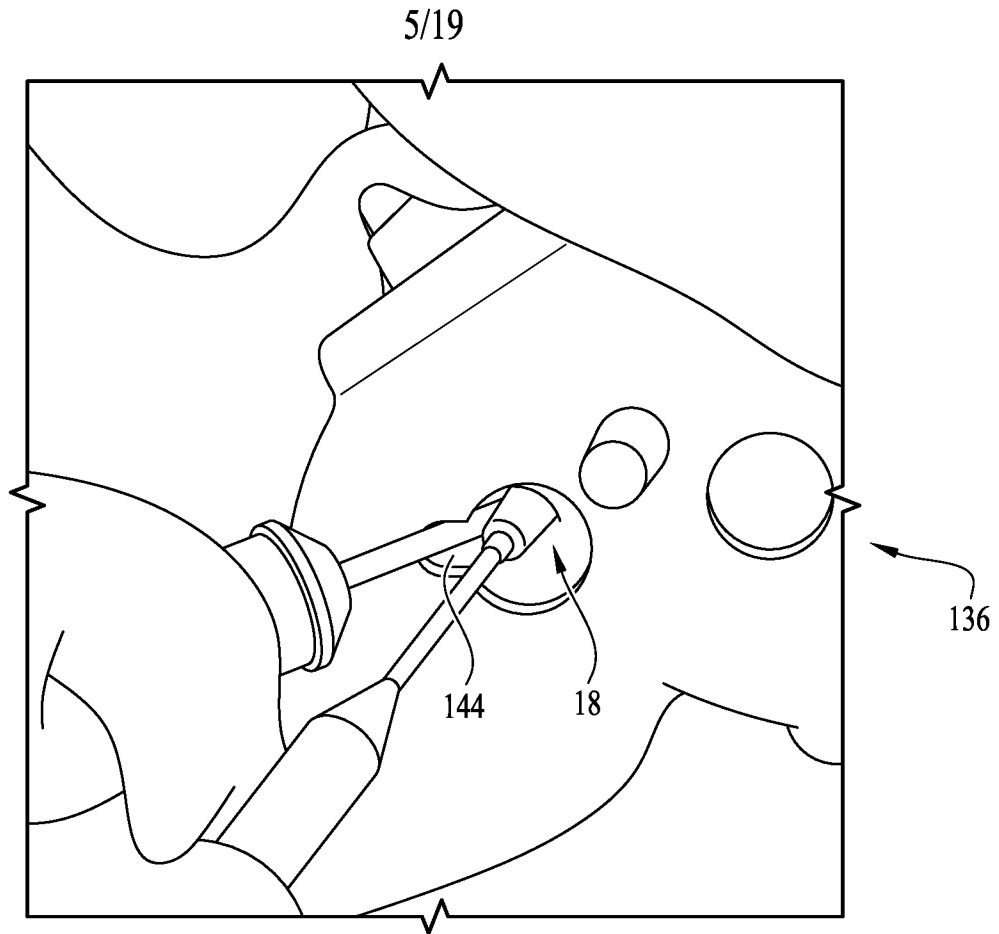


Fig. 9

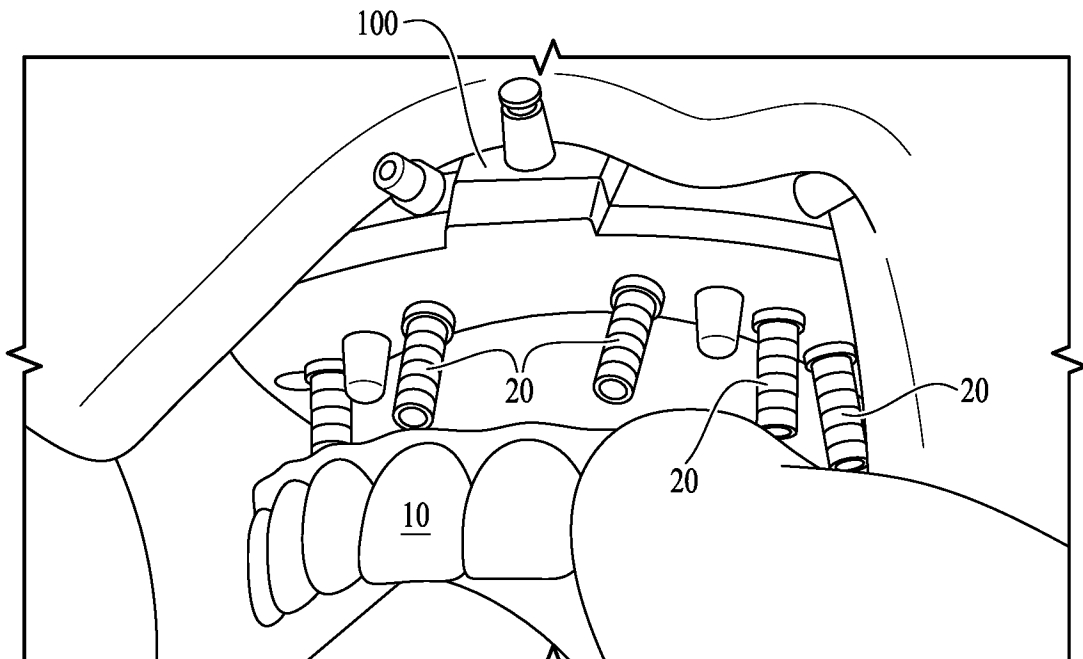
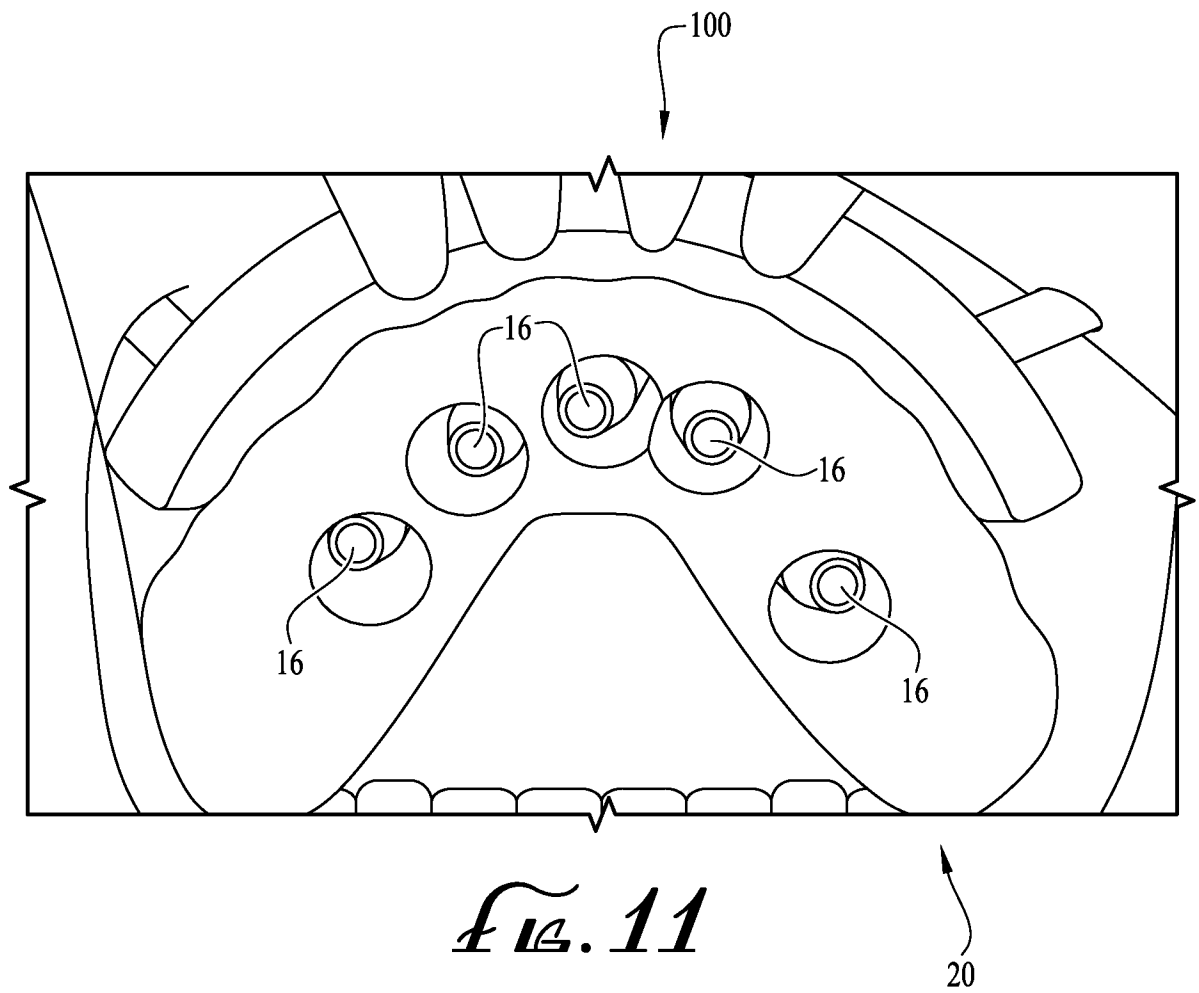


Fig. 10



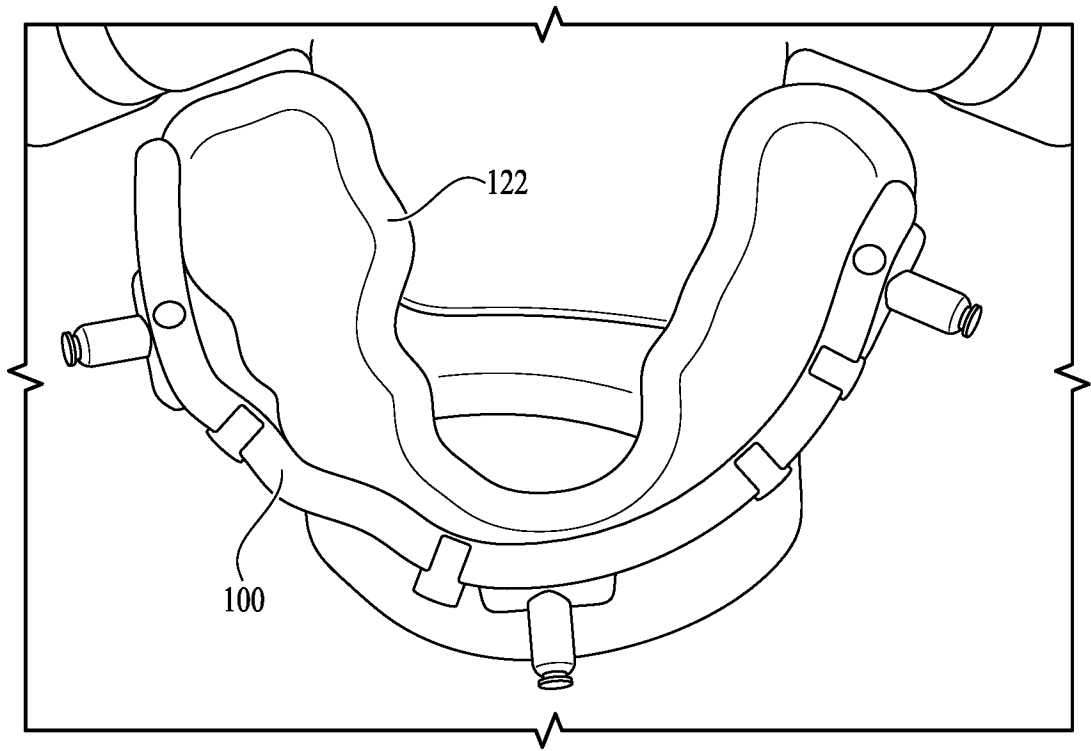


FIG. 12A

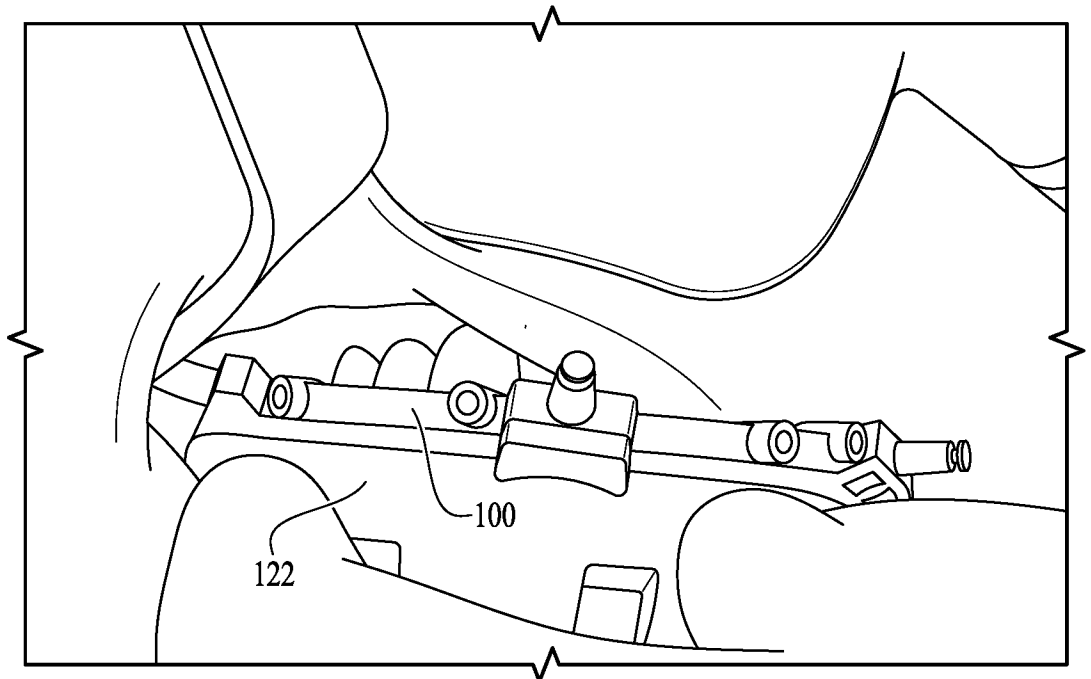


FIG. 12B

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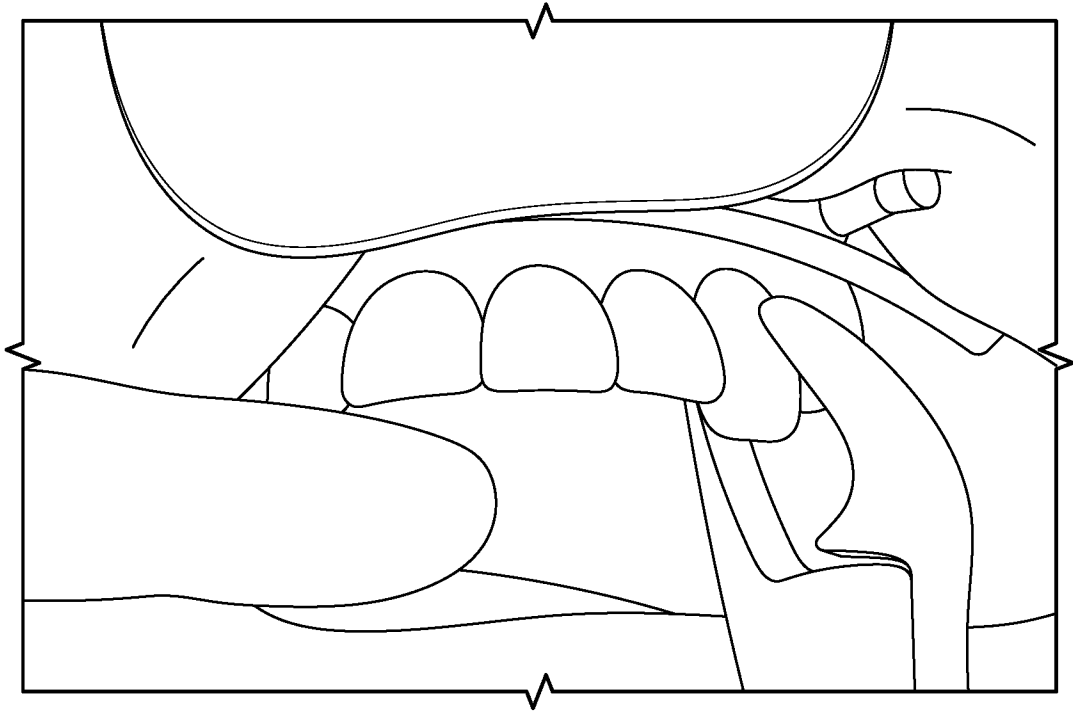


Fig. 12E

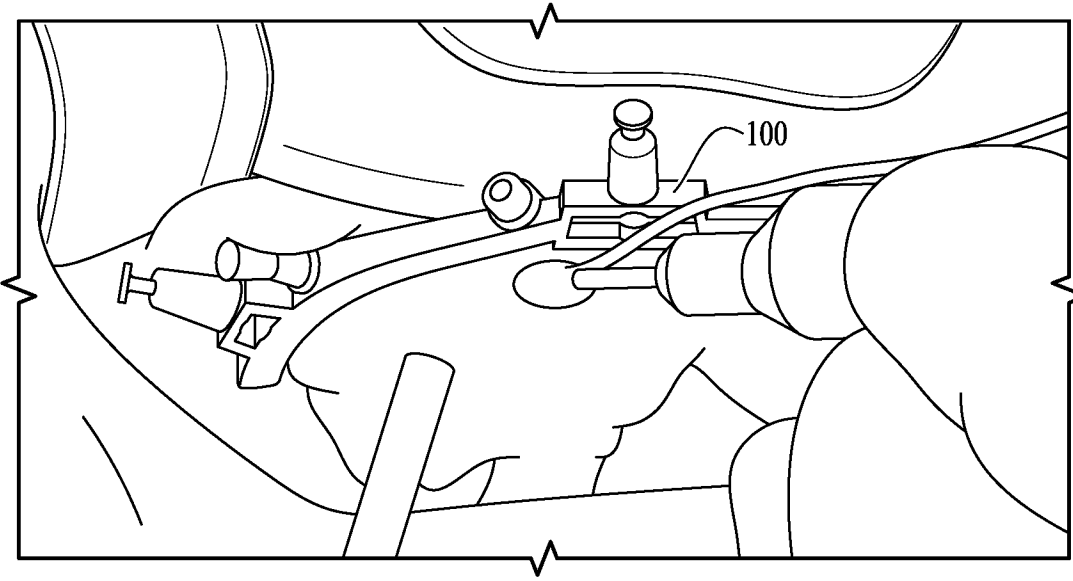


Fig. 12F

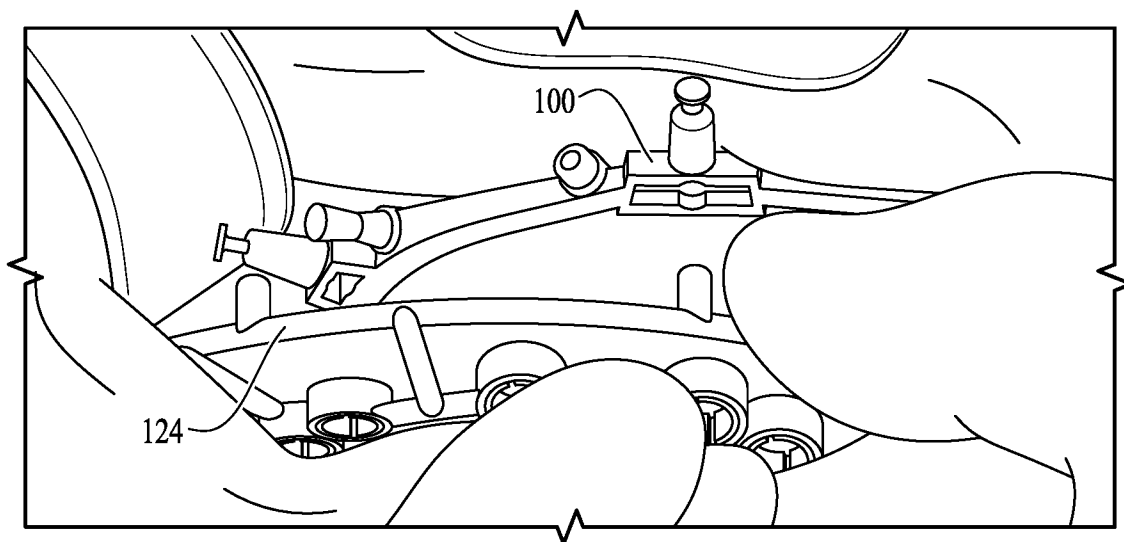


Fig. 12G

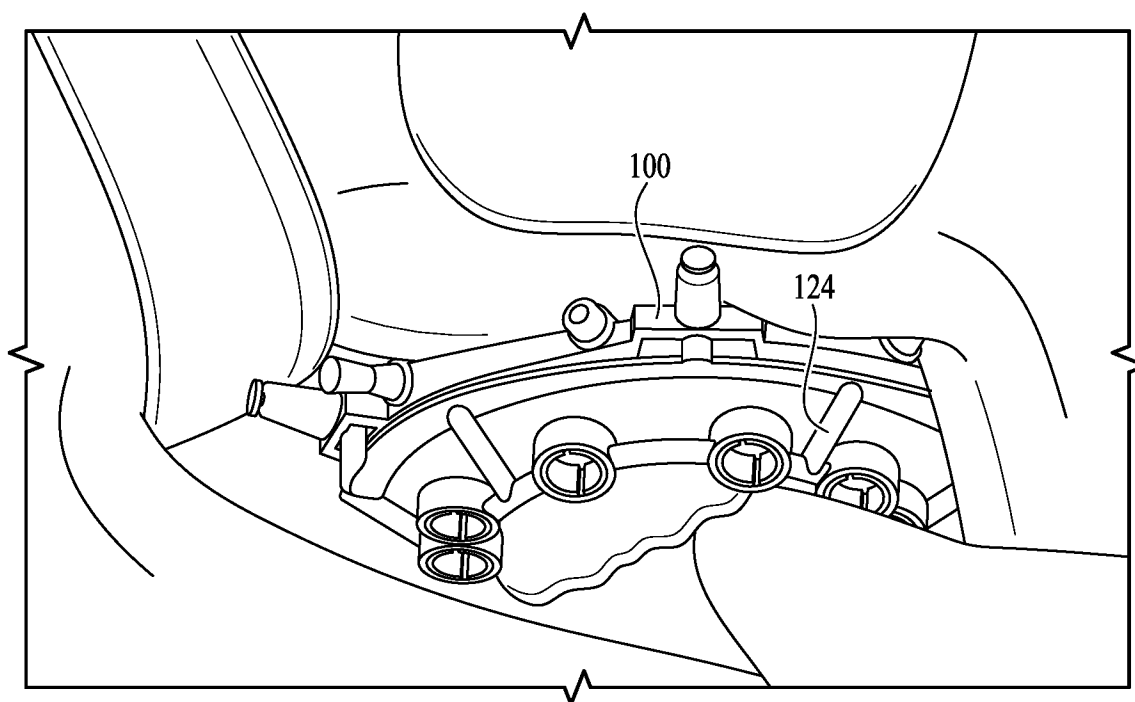


Fig. 12H

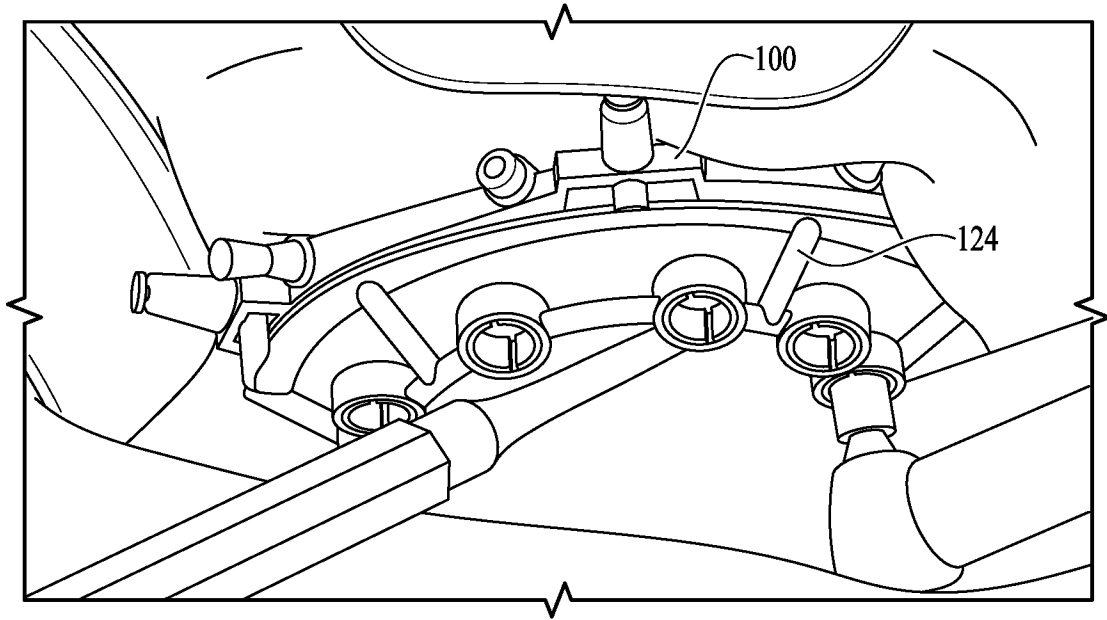


Fig. 12I

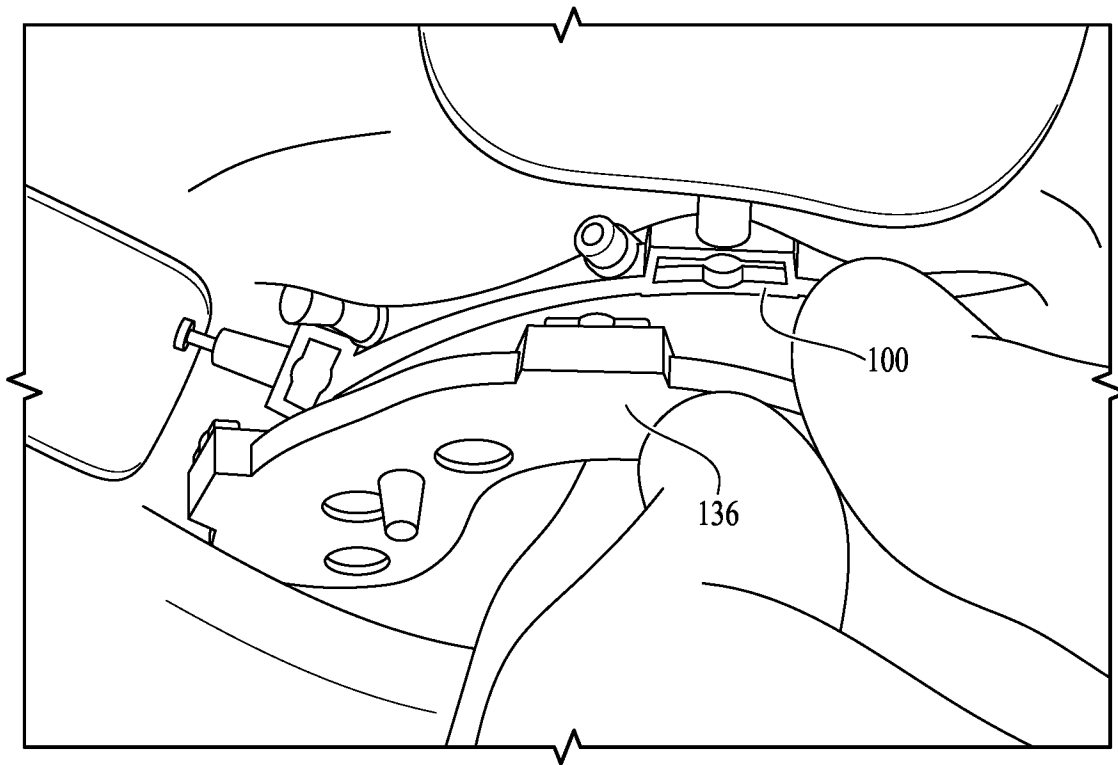


Fig. 12J

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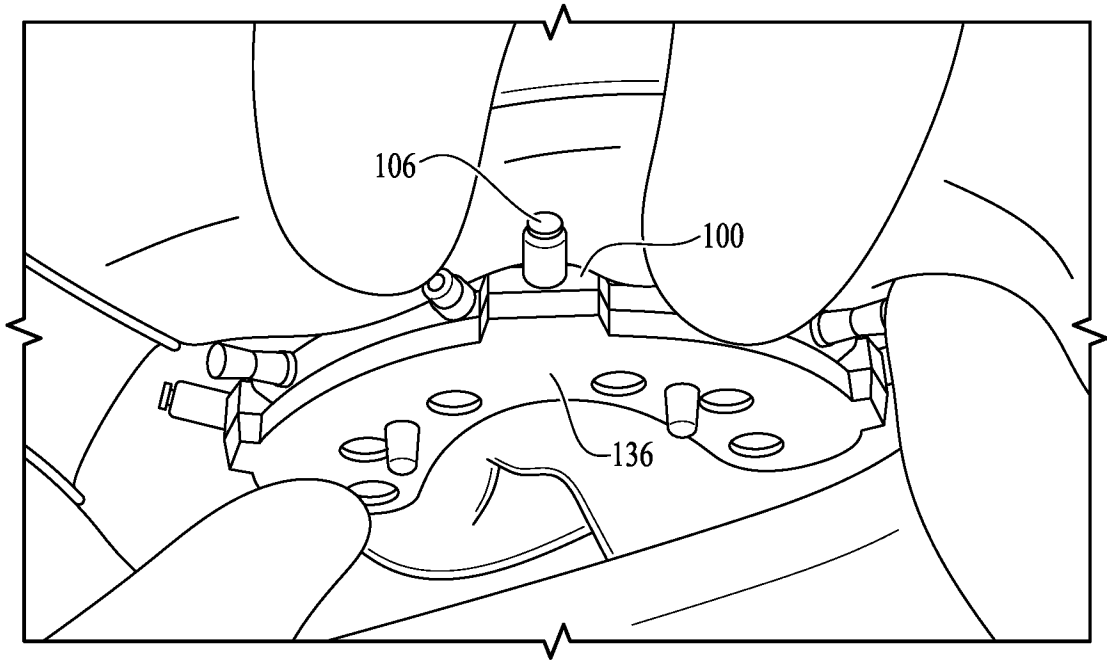


Fig. 12K

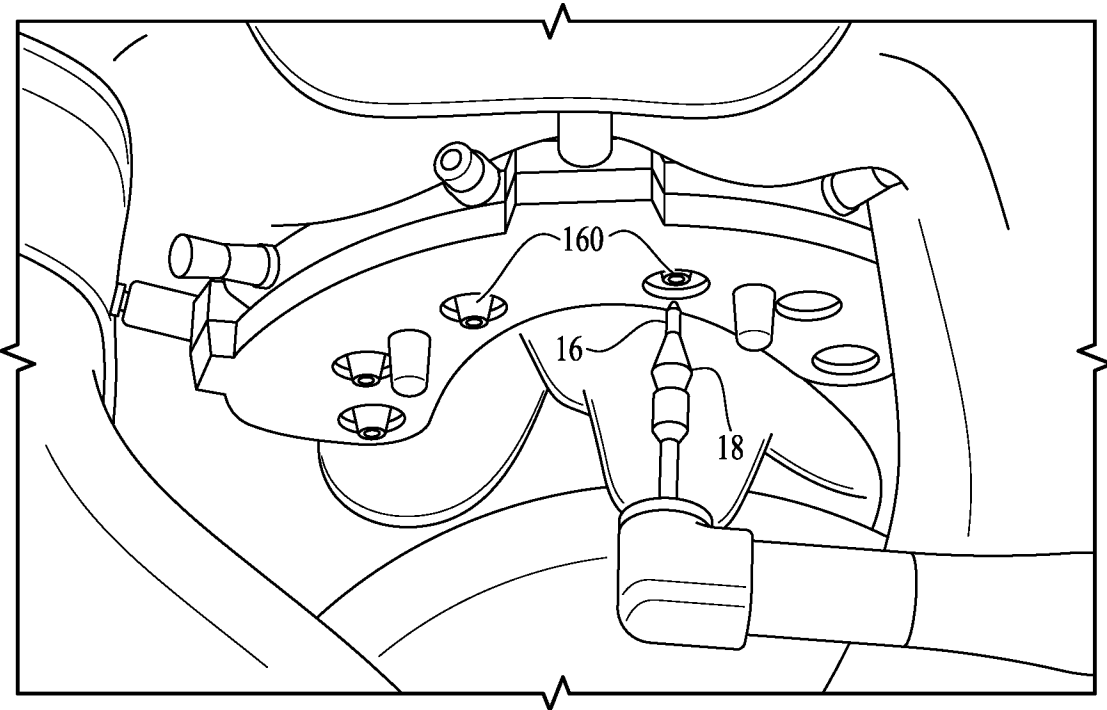


Fig. 12L

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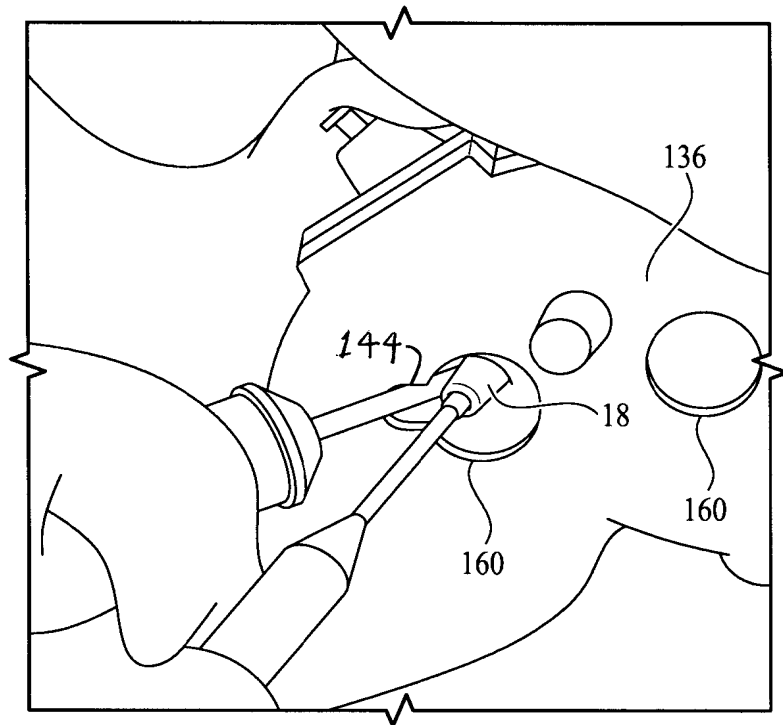


Fig. 12M

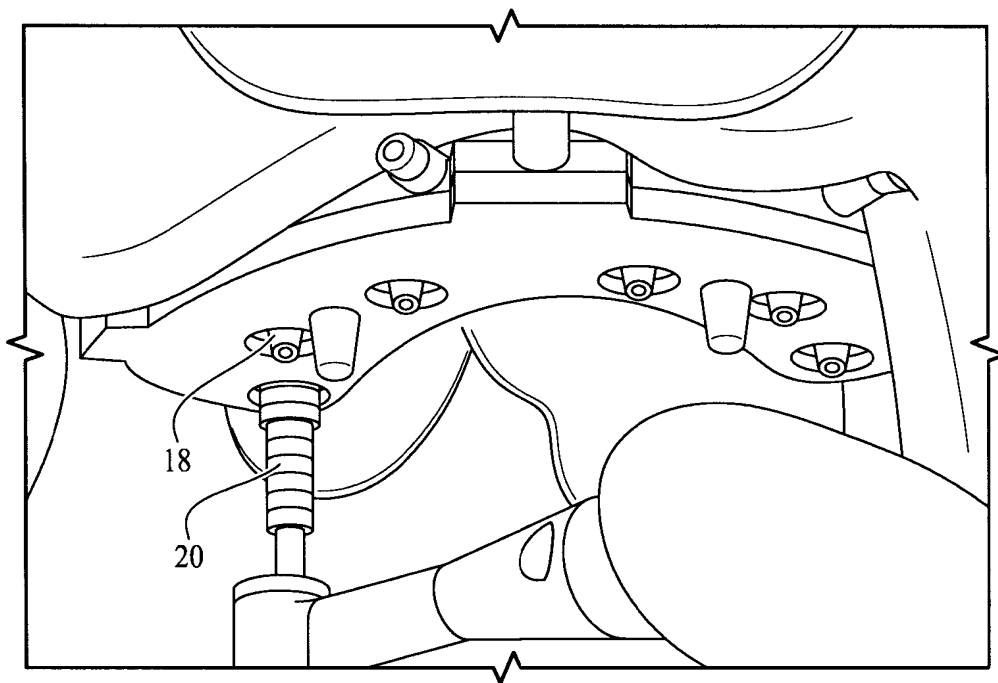


Fig. 12N

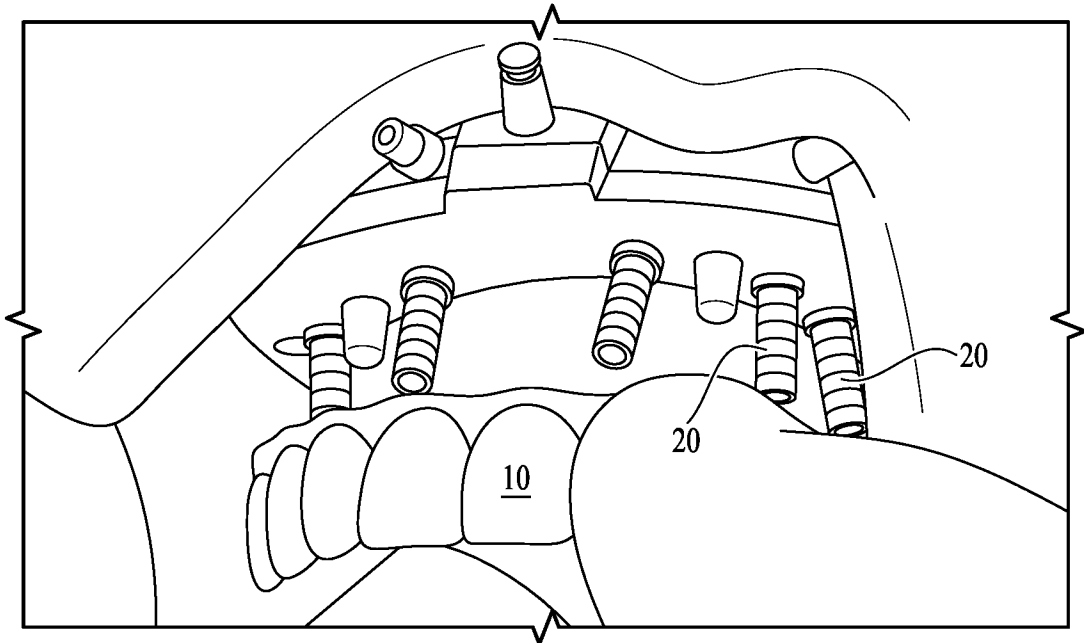


Fig. 120

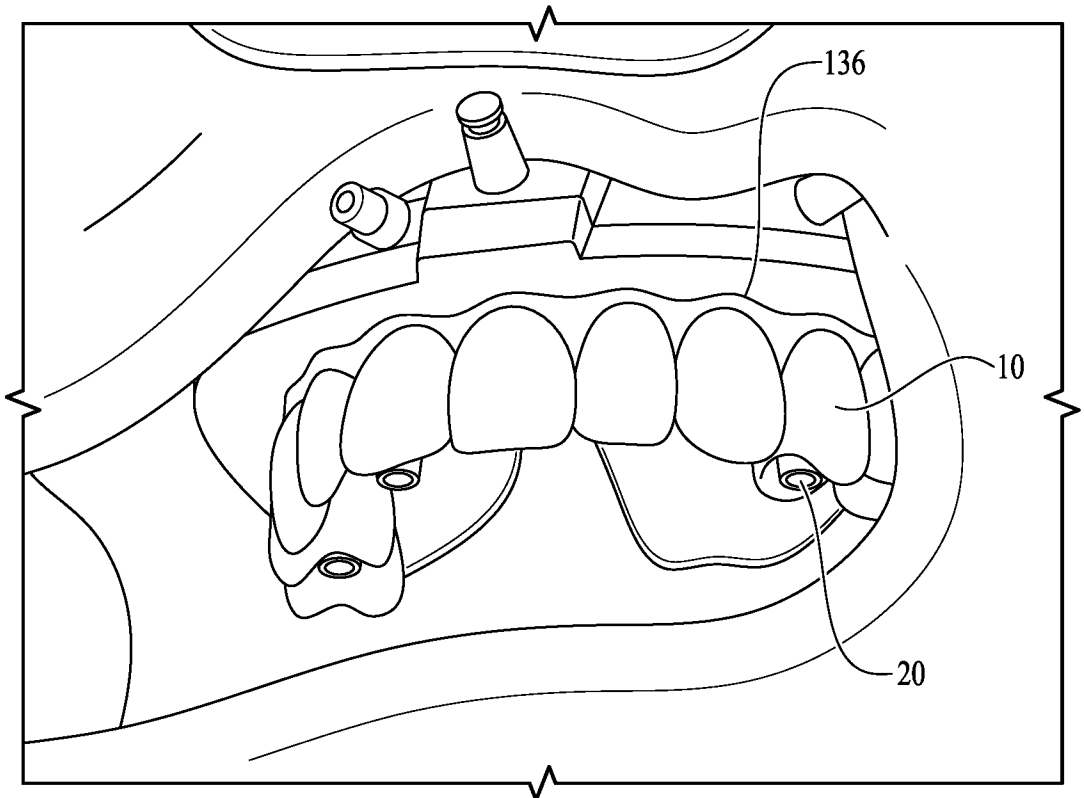


Fig. 12P

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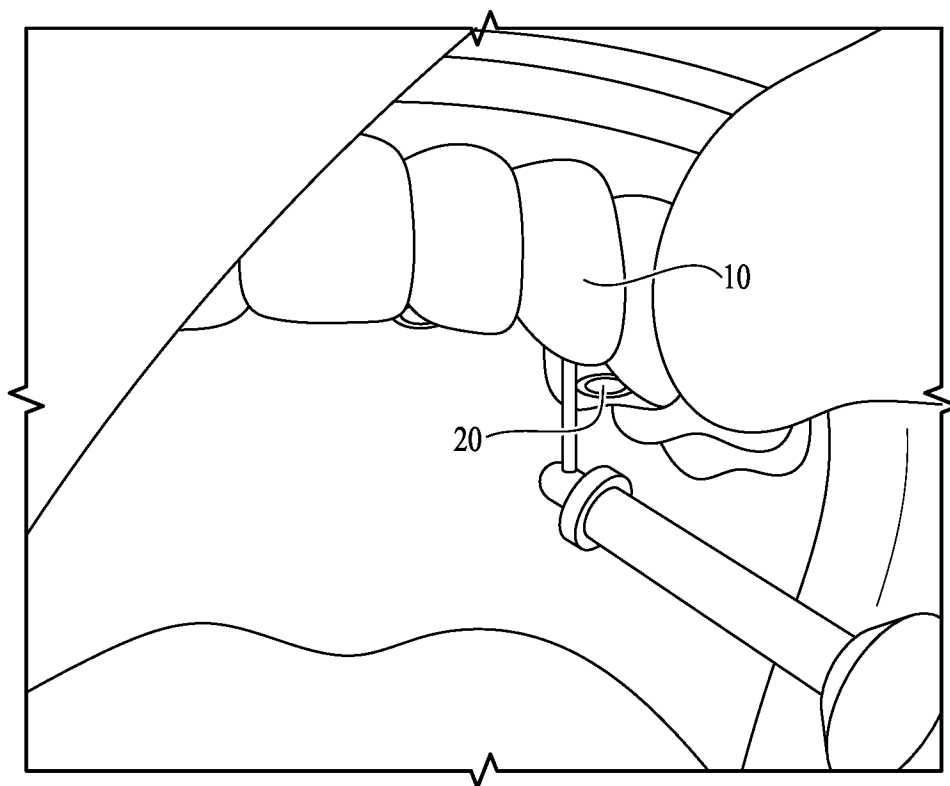


Fig. 12Q

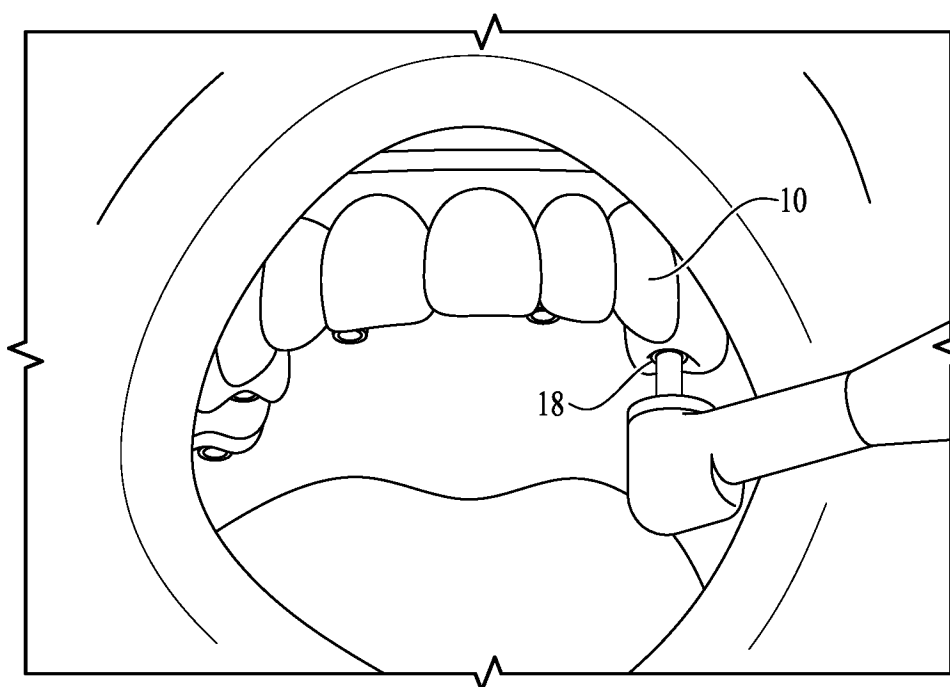


Fig. 12R

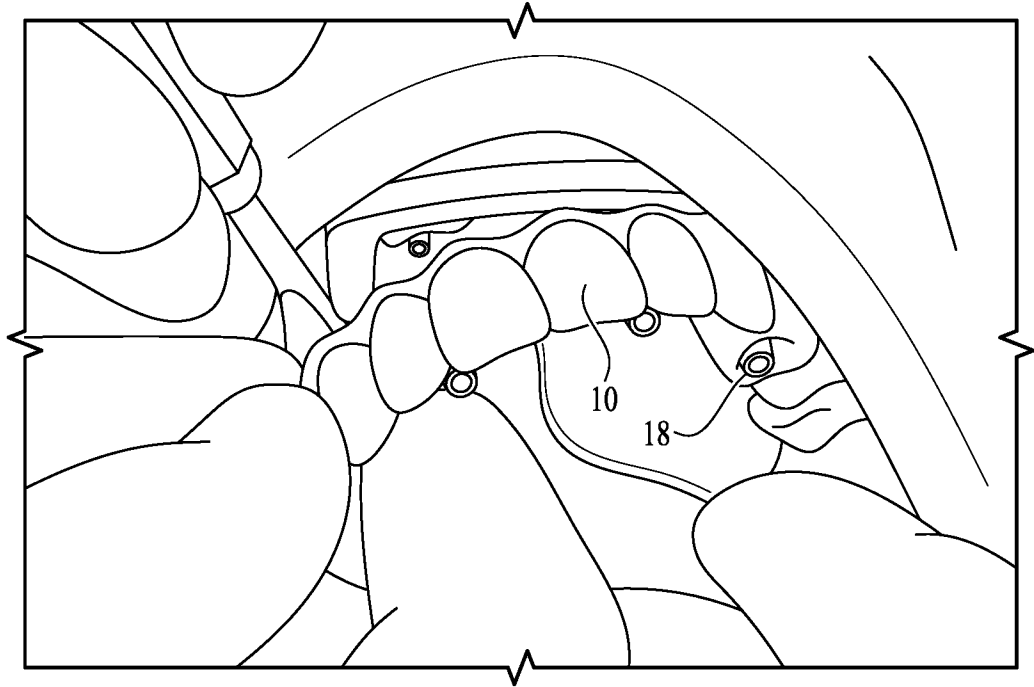


Fig. 12s

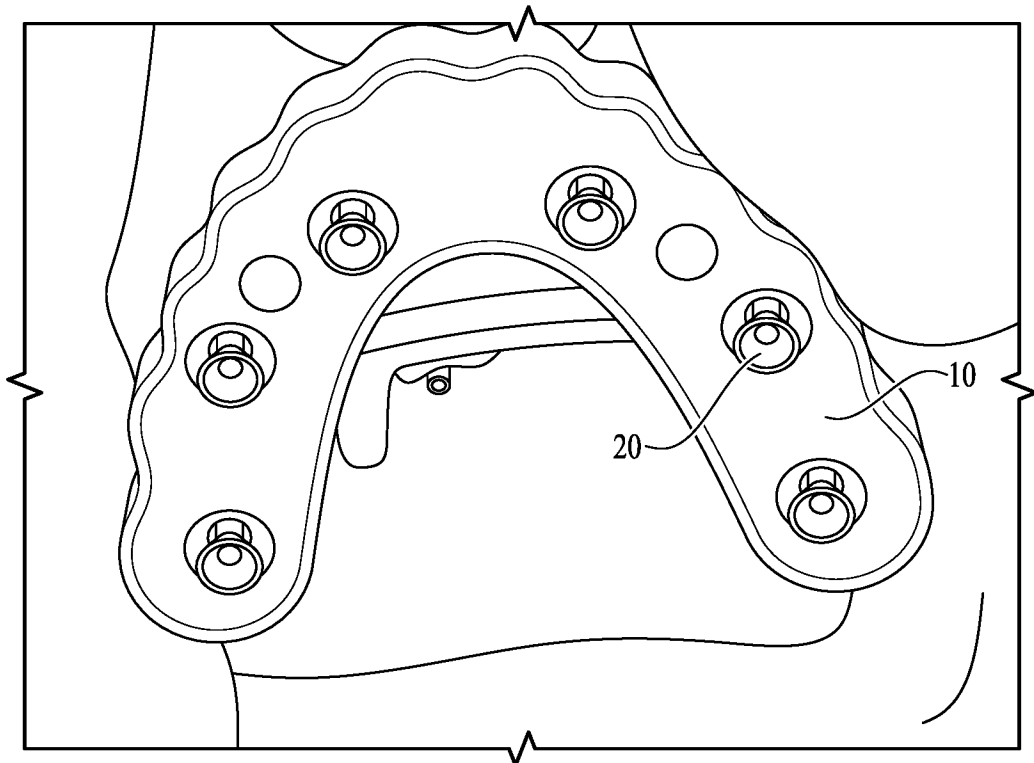


Fig. 12T

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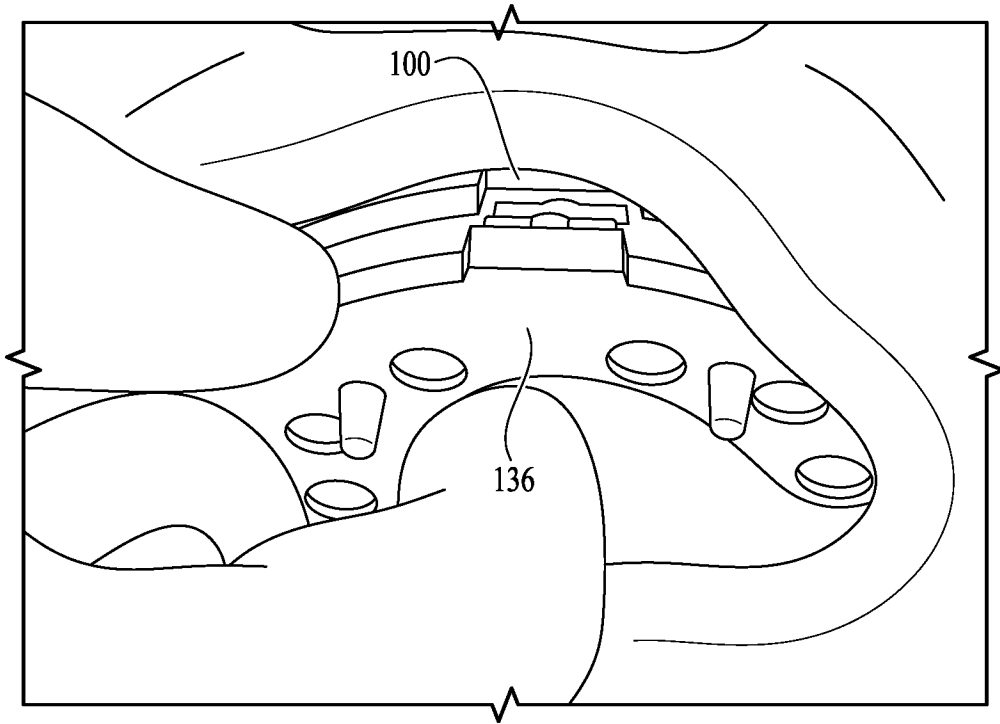


Fig. 12U

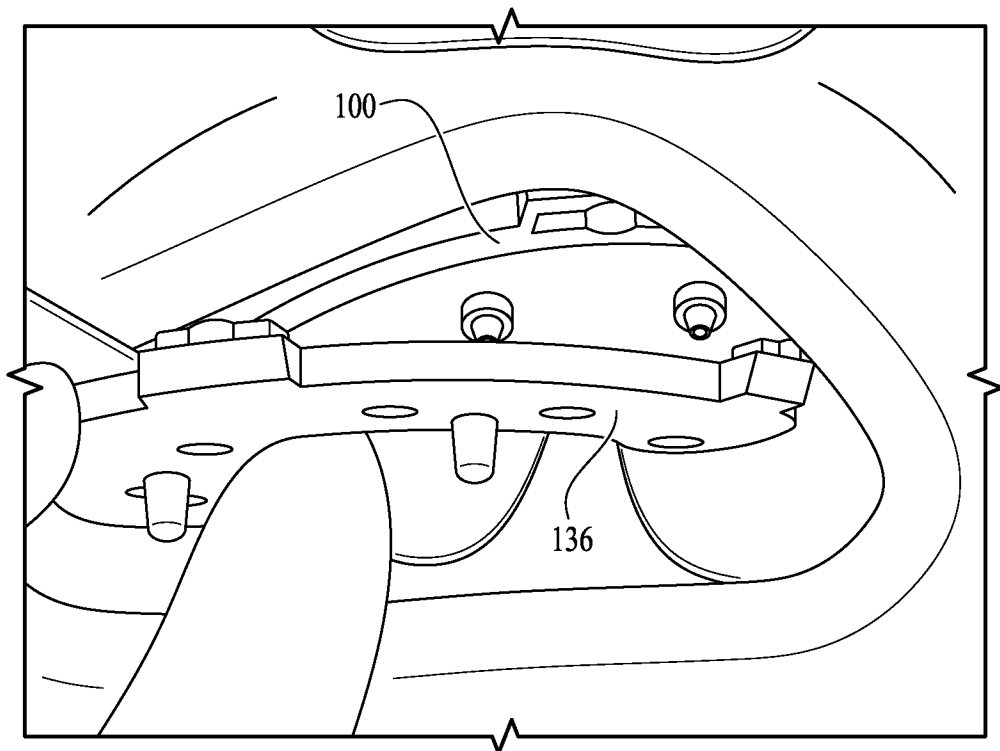


Fig. 12V

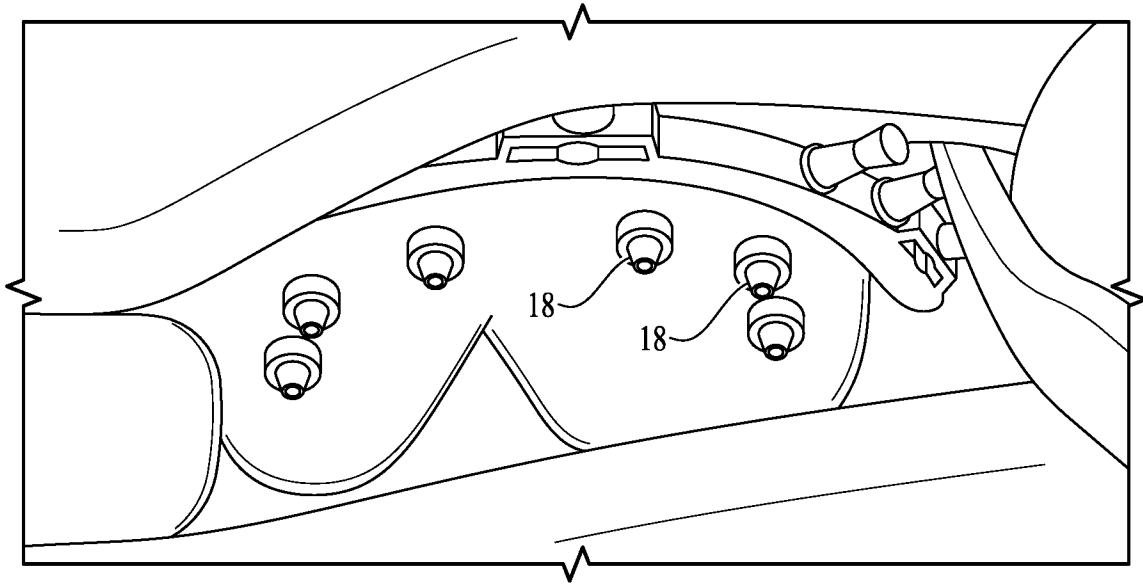


FIG. 12W

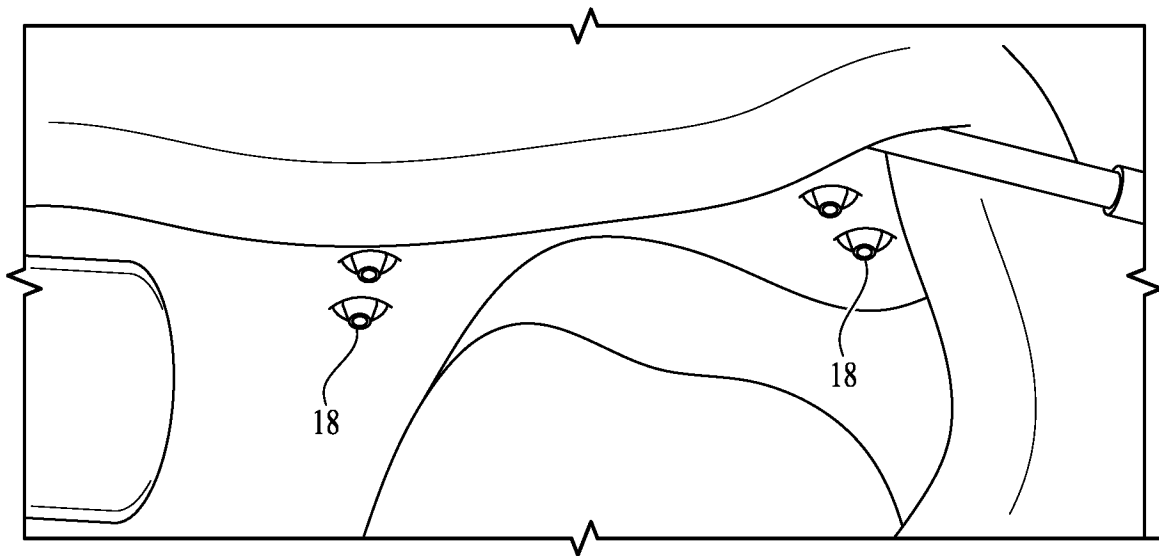


FIG. 12X

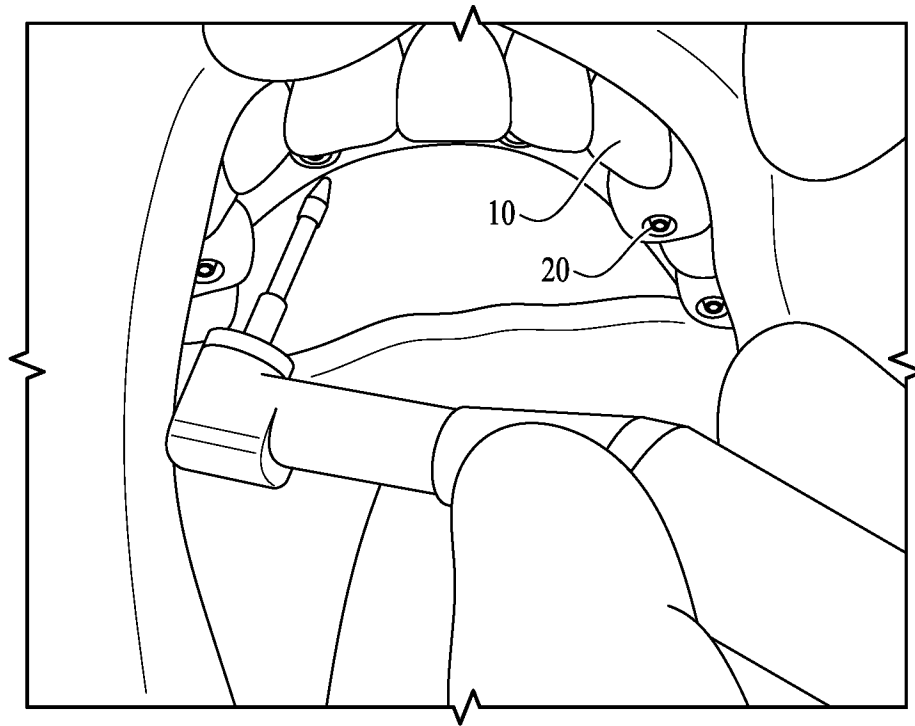


Fig. 12Y

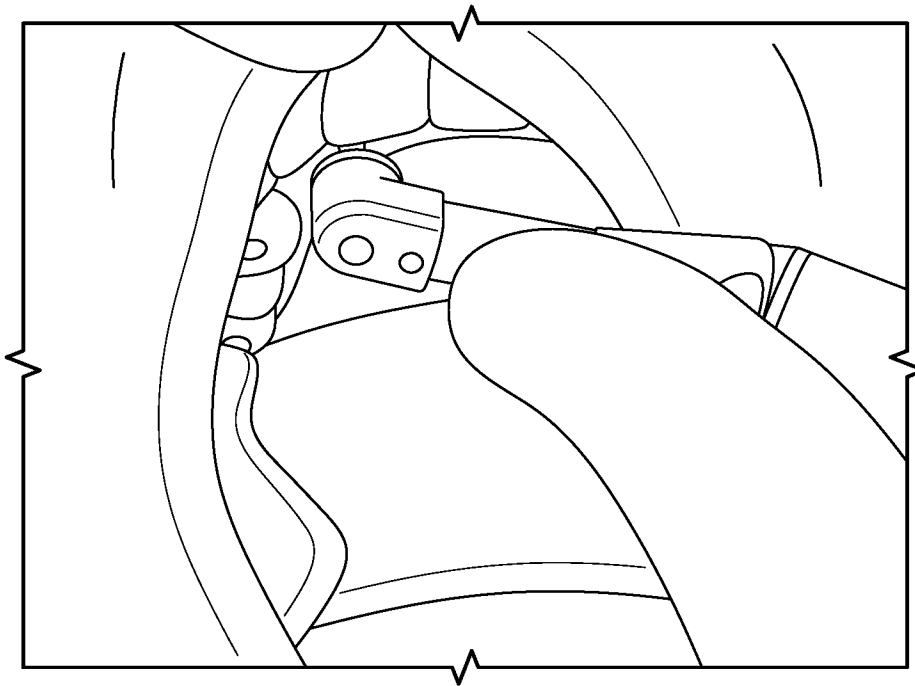


Fig. 12Z

DECLARATION FOR UTILITY OR DESIGN PATENT APPLICATION (37 CFR 1.63) ☐ Declaration Submitted With Initial Filing OR ☐ Declaration Submitted After Initial Filing (surcharge (37 CFR 1.16(f)) required)		Attorney Docket Number	J.WAT-003
		First Named Inventor	Jason Watson
		COMPLETE IF KNOWN	
		Application Number	
		Filing Date	
		Art Unit	
		Examiner Name	

Fixation Base and Guides for Dental Prosthesis Installation

(Title of the Invention)

As a below named inventor, I hereby declare that:

This declaration is directed to:



The attached application,

OR



United States Application Number or PCT International application number _____
filed on _____.

The above-identified application was made or authorized to be made by me.

I believe 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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[Page 1 of 2]

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Jason Watson			
Inventor's Signature		Date (Optional)	
/Jason Watson /		10/17/2021	
Residence: City	State	Country	
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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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1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether disclosure of these records is required by the Freedom of Information Act.
2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspection or an issued patent.
9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

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	J.WAT-003
		Application Number	
Title of Invention	Fixation Base and Guides for Dental Prosthesis Installation		
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	<input type="button" value="Remove"/>			
Legal Name					
Prefix	Given Name	Middle Name	Family Name	Suffix	
	Jason		Watson		
Residence Information (Select One) • US Residency Non US Residency Active US Military Service					
City	La Canada	State/Province	CA	Country of Residence	US
Mailing Address of Inventor:					
Address 1	4933 Ocean View Boulevard				
Address 2					
City	La Canada	State/Province	CA		
Postal Code	91214	Country	US		
All Inventors Must Be Listed - Additional Inventor Information blocks may be generated within this form by selecting the Add button.					

Correspondence Information:

Enter either Customer Number or complete the Correspondence Information section below. For further information see 37 CFR 1.33(a).			
☐ An Address is being provided for the correspondence Information of this application.			
Customer Number	59259		
Email Address	italia@italiaip.com	<input type="button" value="Add Email"/>	<input type="button" value="Remove Email"/>

Application Information:

Title of the Invention	Fixation Base and Guides for Dental Prosthesis Installation		
Attorney Docket Number	J.WAT-003	Small Entity Status Claimed	☒
Application Type	Nonprovisional		
Subject Matter	Utility		
Total Number of Drawing Sheets (if any)	19	Suggested Figure for Publication (if any)	1

Filing By Reference :

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	J.WAT-003
		Application Number	
Title of Invention	Fixation Base and Guides for Dental Prosthesis Installation		

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	59259		

Domestic Benefit/National Stage Information:

This section allows for the applicant to either claim benefit under 35 U.S.C. 119(e), 120, 121, or 365(c) or indicate National Stage entry from a PCT application. Providing this 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 blank.

Prior Application Status	Pending	Remove	
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)
	Continuation of	15984309	2018-05-18
Prior Application Status	Expired	Remove	
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)
15984309	Claims benefit of provisional	62508377	2017-05-18

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

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	J.WAT-003
		Application Number	
Title of Invention	Fixation Base and Guides for Dental Prosthesis Installation		

Foreign Priority Information:

This section allows for the applicant to claim priority to a foreign application. Providing this information in the application data sheet constitutes the claim for priority as required by 35 U.S.C. 119(b) and 37 CFR 1.55(d). 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(h)(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.

Authorization to Permit Access:

☒ Authorization to Permit Access to the Instant Application by the Participating Offices
--

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	J.WAT-003
		Application Number	
Title of Invention	Fixation Base and Guides for Dental Prosthesis Installation		

If 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 World Intellectual Property Office (WIPO), and any other intellectual property offices in which a foreign application claiming priority to the instant patent application is filed access to the instant patent application. See 37 CFR 1.14(c) and (h). This box should not be checked if the applicant does not wish the EPO, JPO, KIPO, WIPO, or other intellectual property office in which a foreign application claiming priority to the instant patent application is filed to have access to the instant patent application.

In accordance with 37 CFR 1.14(h)(3), access will be provided to a copy of the instant patent application with respect to: 1) the instant patent application-as-filed; 2) any foreign application to which the instant patent application claims priority under 35 U.S.C. 119(a)-(d) if a copy of the foreign application that satisfies the certified copy requirement of 37 CFR 1.55 has been filed in the instant patent application; and 3) any U.S. application-as-filed from which benefit is sought in the instant patent application.

In accordance with 37 CFR 1.14(c), access may be provided to information concerning the date of filing this Authorization.

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
<p>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.</p>		
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:		
<div style="border: 1px solid black; height: 20px; width: 100%;"></div>		
Name of the Deceased or Legally Incapacitated Inventor : <div style="border: 1px solid black; height: 20px; width: 100%;"></div>		
If the Applicant is an Organization check here. ☐		

Prefix	Given Name	Middle Name	Family Name	Suffix
<div style="border: 1px solid black; height: 20px; width: 100%;"></div>	<div style="border: 1px solid black; height: 20px; width: 100%;"></div>	<div style="border: 1px solid black; height: 20px; width: 100%;"></div>	<div style="border: 1px solid black; height: 20px; width: 100%;"></div>	<div style="border: 1px solid black; height: 20px; width: 100%;"></div>

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	J.WAT-003
		Application Number	
Title of Invention	Fixation Base and Guides for Dental Prosthesis Installation		

Mailing Address Information For Applicant:			
Address 1			
Address 2			
City		State/Province	
Country ⁱ		Postal Code	
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.

Assignee	1			
Complete this section if assignee information, including non-applicant assignee information, is desired to be included on the patent application publication. An assignee-applicant identified in the "Applicant Information" section will appear on the patent application publication as an applicant. For an assignee-applicant, complete this section only if identification as an assignee is also desired on the patent application publication.				
Remove				
If the Assignee or Non-Applicant Assignee is an Organization check here. ☐				
Prefix	Given Name	Middle Name	Family Name	Suffix

Mailing Address Information For Assignee including Non-Applicant Assignee:				
Address 1				
Address 2				
City		State/Province		
Country ⁱ		Postal Code		
Phone Number		Fax Number		
Email Address				
Additional Assignee or Non-Applicant Assignee Data may be generated within this form by selecting the Add button. Add				

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	J.WAT-003
		Application Number	
Title of Invention	Fixation Base and Guides for Dental Prosthesis Installation		

Signature:

Remove

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

Signature	/James A. Italia/			Date (YYYY-MM-DD)	2021-10-17
First Name	James A.	Last Name	Italia	Registration Number	56549

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

Add

This collection of information is required by 37 CFR 1.76. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 23 minutes to complete, including gathering, preparing, and submitting the completed application data sheet form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

Privacy Act Statement

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

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

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether the Freedom of Information Act requires disclosure of these records.
2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent 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.

PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875						Application or Docket Number 17/503,359				
APPLICATION AS FILED - PART I										
(Column 1)		(Column 2)		SMALL ENTITY		OR OTHER THAN SMALL ENTITY				
FOR	NUMBER FILED	NUMBER EXTRA	RATE(\$)	FEE(\$)		RATE(\$)	FEE(\$)			
BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A	N/A	80		N/A				
SEARCH FEE (37 CFR 1.16(k), (l), or (m))	N/A	N/A	N/A	350		N/A				
EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A	N/A	400		N/A				
TOTAL CLAIMS (37 CFR 1.16(j))	13	minus 20 = *	x 50 =	0.00	OR					
INDEPENDENT CLAIMS (37 CFR 1.16(h))	3	minus 3 = *	x 240 =	0.00						
APPLICATION SIZE FEE (37 CFR 1.16(s))	If the specification and drawings exceed 100 sheets of paper, the application size fee due is \$310 (\$155 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).			0.00						
MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))				0.00						
* If the difference in column 1 is less than zero, enter "0" in column 2.			TOTAL	830		TOTAL				
APPLICATION AS AMENDED - PART II										
(Column 1)		(Column 2)		(Column 3)		SMALL ENTITY		OR OTHER THAN SMALL ENTITY		
AMENDMENT A		CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE(\$)	ADDITIONAL FEE(\$)		RATE(\$)	ADDITIONAL FEE(\$)
	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))							OR		
	FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))							OR		
						TOTAL ADD'L FEE		OR	TOTAL ADD'L FEE	
AMENDMENT B		CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE(\$)	ADDITIONAL FEE(\$)		RATE(\$)	ADDITIONAL FEE(\$)
	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))							OR		
	FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))							OR		
						TOTAL ADD'L FEE		OR	TOTAL ADD'L FEE	
* If the entry in column 1 is less than the entry in column 2, write "0" in column 3. ** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20". *** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3". The "Highest Number Previously Paid For" (Total or Independent) is the highest found in the appropriate box in column 1.										



UNITED STATES PATENT AND TRADEMARK OFFICE

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

APPLICATION NUMBER	FILING or 371(c) DATE	GRP ART UNIT	FIL FEE REC'D	ATTY. DOCKET NO	TOT CLAIMS	IND CLAIMS
17/503,359	10/18/2021	3775	830	J.WAT-003	13	3

CONFIRMATION NO. 4207

FILING RECEIPT



0000000129384831

59259
ITALIA IP
3500 WEST OLIVE AVE.
SUITE 300
BURBANK, CA 91505

Date Mailed: 10/28/2021

Receipt is acknowledged of this non-provisional utility patent application. The application will be taken up for examination in due course. Applicant will be notified as to the results of the examination. Any correspondence concerning the application must include the following identification information: the U.S. APPLICATION NUMBER, FILING DATE, NAME OF FIRST INVENTOR, and TITLE OF INVENTION. Fees transmitted by check or draft are subject to collection.

Please verify the accuracy of the data presented on this receipt. If an error is noted on this Filing Receipt, please submit a written request for a corrected Filing Receipt, including a properly marked-up ADS showing the changes with strike-through for deletions and underlining for additions. If you received a "Notice to File Missing Parts" or other Notice requiring a response for this application, please submit any request for correction to this Filing Receipt with your reply to the Notice. When the USPTO processes the reply to the Notice, the USPTO will generate another Filing Receipt incorporating the requested corrections provided that the request is grantable.

Inventor(s)

Jason Watson, La Canada, CA;

Applicant(s)

Jason Watson, La Canada, CA;

Power of Attorney: The patent practitioners associated with Customer Number 59259

Domestic Priority data as claimed by applicant

This application is a CON of 15/984,309 05/18/2018 PAT 11173016
which claims benefit of 62/508,377 05/18/2017

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: No

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: 10/26/2021

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US 17/503,359**

Projected Publication Date: 02/03/2022

Non-Publication Request: No

Early Publication Request: No

**** SMALL ENTITY ****

Title

Fixation Base and Guides for Dental Prosthesis Installation

Preliminary Class

606

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

PROTECTING YOUR INVENTION OUTSIDE THE UNITED STATES

Since the rights granted by a U.S. patent extend only throughout the territory of the United States and have no effect in a foreign country, an inventor who wishes patent protection in another country must apply for a patent in a specific country or in regional patent offices. Applicants may wish to consider the filing of an international application under the Patent Cooperation Treaty (PCT). An international (PCT) application generally has the same effect as a regular national patent application in each PCT-member country. The PCT process **simplifies** the filing of patent applications on the same invention in member countries, but **does not result** in a grant of "an international patent" and does not eliminate the need of applicants to file additional documents and fees in countries where patent protection is desired.

Almost every country has its own patent law, and a person desiring a patent in a particular country must make an application for patent in that country in accordance with its particular laws. Since the laws of many countries differ in various respects from the patent law of the United States, applicants are advised to seek guidance from specific foreign countries to ensure that patent rights are not lost prematurely.

Applicants also are advised that in the case of inventions made in the United States, the Director of the USPTO must issue a license before applicants can apply for a patent in a foreign country. The filing of a U.S. patent application serves as a request for a foreign filing license. The application's filing receipt contains further information and guidance as to the status of applicant's license for foreign filing.

Applicants may wish to consult the USPTO booklet, "General Information Concerning Patents" (specifically, the section entitled "Treaties and Foreign Patents") for more information on timeframes and deadlines for filing foreign patent applications. The guide is available either by contacting the USPTO Contact Center at 800-786-9199, or it can be viewed on the USPTO website at <http://www.uspto.gov/web/offices/pac/doc/general/index.html>.

For information on preventing theft of your intellectual property (patents, trademarks and copyrights), you may wish to consult the U.S. Government website, <http://www.stopfakes.gov>. Part of a Department of Commerce initiative, this website includes self-help "toolkits" giving innovators guidance on how to protect intellectual property in specific countries such as China, Korea and Mexico. For questions regarding patent enforcement issues, applicants may call the U.S. Government hotline at 1-866-999-HALT (1-866-999-4258).

LICENSE FOR FOREIGN FILING UNDER
Title 35, United States Code, Section 184
Title 37, Code of Federal Regulations, 5.11 & 5.15

GRANTED

The applicant has been granted a license under 35 U.S.C. 184, if the phrase "IF REQUIRED, FOREIGN FILING LICENSE GRANTED" followed by a date appears on this form. Such licenses are issued in all applications where the conditions for issuance of a license have been met, regardless of whether or not a license may be required as set forth in 37 CFR 5.15. The scope and limitations of this license are set forth in 37 CFR 5.15(a) unless an earlier license has been issued under 37 CFR 5.15(b). The license is subject to revocation upon written notification. The date indicated is the effective date of the license, unless an earlier license of similar scope has been granted under 37 CFR 5.13 or 5.14.

This license is to be retained by the licensee and may be used at any time on or after the effective date thereof unless it is revoked. This license is automatically transferred to any related applications(s) filed under 37 CFR 1.53(d). This license is not retroactive.

The grant of a license does not in any way lessen the responsibility of a licensee for the security of the subject matter as imposed by any Government contract or the provisions of existing laws relating to espionage and the national security or the export of technical data. Licensees should apprise themselves of current regulations especially with respect to certain countries, of other agencies, particularly the Office of Defense Trade Controls, Department of State (with respect to Arms, Munitions and Implements of War (22 CFR 121-128)); the Bureau of Industry and Security, Department of Commerce (15 CFR parts 730-774); the Office of Foreign Assets Control, Department of Treasury (31 CFR Parts 500+) and the Department of Energy.

NOT GRANTED

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APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
17/503,359	10/18/2021	Jason Watson	J.WAT-003

CONFIRMATION NO. 4207

PUBLICATION NOTICE



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59259
ITALIA IP
3500 WEST OLIVE AVE.
SUITE 300
BURBANK, CA 91505

Title: Fixation Base and Guides for Dental Prosthesis Installation

Publication No. US-2022-0031431-A1

Publication Date: 02/03/2022

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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PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875	Application or Docket Number 17/503,359	Filing Date 10/18/2021	☐ To be Mailed
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ENTITY: ☐ LARGE ☒ SMALL ☐ MICRO

APPLICATION AS FILED - PART I

FOR	(Column 1) NUMBER FILED	(Column 2) NUMBER EXTRA	RATE (\$)	FEE (\$)
☐ BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A	N/A	
☐ SEARCH FEE (37 CFR 1.16(k), (i), or (m))	N/A	N/A	N/A	
☐ EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A	N/A	
TOTAL CLAIMS (37 CFR 1.16(i))	minus 20 = *		x \$50 =	
INDEPENDENT CLAIMS (37 CFR 1.16(h))	minus 3 = *		x \$240 =	
☐ 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)		RATE (\$)	ADDITIONAL FEE (\$)
AMENDMENT	02/11/2022	CLAIMS REMAINING AFTER AMENDMENT	HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA			
	Total (37 CFR 1.16(i))	* 18 Minus	** 20	= 0		x \$50 =	0
	Independent (37 CFR 1.16(h))	* 3 Minus	*** 3	= 0		x \$240 =	0
	☐ Application Size Fee (37 CFR 1.16(s))						
☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))							
					TOTAL ADD'L FEE		0
AMENDMENT		CLAIMS REMAINING AFTER AMENDMENT	HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA		RATE (\$)	ADDITIONAL FEE (\$)
	Total (37 CFR 1.16(i))	* Minus	**	=		x \$0 =	
	Independent (37 CFR 1.16(h))	* Minus	***	=		x \$0 =	
	☐ Application Size Fee (37 CFR 1.16(s))						
☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))							
					TOTAL ADD'L FEE		
* If the entry in column 1 is less than the entry in column 2, write "0" in column 3.					LIE		
** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20".					/RENEE D HAWKINS/		
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EFS ID:	44979452
Application Number:	17503359
International Application Number:	
Confirmation Number:	4207
Title of Invention:	Fixation Base and Guides for Dental Prosthesis Installation
First Named Inventor/Applicant Name:	Jason Watson
Customer Number:	59259
Filer:	James Anthony Italia
Filer Authorized By:	
Attorney Docket Number:	J.WAT-003
Receipt Date:	11-FEB-2022
Filing Date:	18-OCT-2021
Time Stamp:	16:20:08
Application Type:	Utility under 35 USC 111(a)

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Submitted with Payment	no
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File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Preliminary Amendment	PreliminaryAmendment17503359.pdf	80982	no	7
			8ddd580355342c63a134ecccc0cd901c3e69dab		

Warnings:

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Total Files Size (in bytes):	80982
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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re: Patent Application of:
Jason Watson

Serial No. 17/503,359

Confirmation No. 4207

Filed: October 18, 2021

For: FIXATION BASE AND GUIDES FOR
DENTAL PROSTHESIS
INSTALLATION

Group Art Unit:

Examiner:

Burbank, California
February 8, 2022

PRELIMINARY AMENDMENT

Hon. Commissioner of Patents:

In accordance with 37 CFR §1.111 and §1.112, Applicant proposes to submit the following amended claims, beginning on page 2 as part of this preliminary amendment.

Applicant asserts that the amended claims contain no new matter.

Respectfully submitted,

ITALIA IP
Attorneys for Applicant

By: /James A. Italia/
James A. Italia
Registration Number 56,549

Amendments to the Claims:

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

Listing of Claims:

I claim:

1. (Currently amended) A method of installing a multi-tooth dental prosthesis in a maxillary or mandibular position in a mouth of a patient, the method comprising:

providing a dental prosthesis for the maxillary or mandibular positioning in the patient's mouth,

utilizing a fixation base to serve as a mounting jig for a plurality of other dental guides comprising a first dental guide, ~~and a second dental guide, and a third dental guide,~~ wherein the fixation base comprises a generally arcuate shape with a front surface that has a plurality of openings through which fasteners can be passed, a rear surface, and a horizontal surface ~~bearing first attachment elements for engagement of the dental guides used in the prosthesis installation;~~

utilizing the first dental guide, wherein the first dental guide is a mouthpiece that attaches to the fixation base and is used to assure appropriate location to attach the fixation base to the maxillary or mandibular bone tissue of said patient;

installing the fixation base to the maxillary or mandibular bone tissue of said patient;

removing the mouthpiece from the installed fixation base;

removing at least one of natural teeth, dental fixtures, and obstructive mouth tissues from the work site, to expose an underside of the maxillary or mandibular bone tissue;

recontouring the bone tissue;

utilizing the second dental guide, wherein the second dental guide is a drill guide that attaches to the installed fixation base to assure appropriate location and orientation of holes to be drilled for the subsequently installed implants;

drilling the implant holes in the ~~recontoured~~ bone tissue using the drill guide attached to the fixation base;

~~removing the drill guide from the installed fixation base;~~

~~installing implants in the implant holes;~~

~~utilizing the third dental guide, wherein the third dental guide is an abutment guide base that attaches to the installed fixation base to assure appropriate location for the subsequently installed abutments;~~

~~installing the abutments to the implants; using the abutment guide base attached to the fixation base; and,~~

installing said dental prosthesis to the abutments.

2. (Currently amended) The method of claim 1, wherein installing the fixation base to maxillary or mandibular bone tissue of the patient further comprises

~~drilling holes into the exposed forwardly facing surfaces of the bone tissue through the plurality of openings in the fixation base; and~~

driving fasteners through the fixation base into the bone tissue ~~drilled holes~~; to secure the fixation base to the maxillary or mandibular bone.

3. (Original) The method of claim 1, wherein the step of recontouring the bone tissue comprises using a preformed surface on the installed fixation base to assure proper recontouring of the bone tissue.

4. (Original) The method of claim 1, wherein the step of recontouring the bone tissue comprises utilizing a fourth guide apparatus, wherein the fourth guide apparatus is a bone reduction guide that attaches to the installed fixation base to assure proper recontouring of the bone tissue.

5. (Currently amended) The method of claim ~~114~~, wherein installing the abutments includes adjusting the abutments to appropriate angular orientations relative to

a central axis of associated implants using pre-established indicators ~~in-on~~ the abutment guide base.

6. (Currently amended) An apparatus for installing a dental prosthesis to maxillary or mandibular jaw bone of a patient, the apparatus comprising:

a fixation base for providing an attachment surface for a dental guide used during a dental prosthesis installation procedure, the fixation base further comprising a generally arcuate base member with a front surface that includes a plurality of openings through which fasteners can be passed, a rear surface, and a horizontal surface, ~~and manually releasable attachment elements for attachment of a dental guide used during a prosthesis installation to the fixation base.~~

7. (Currently amended) The apparatus of claim 6, wherein the attachment surface ~~manually releasable attachment elements of the fixation base~~ includes:

a plurality of slots in said- horizontal surface of said fixation base for accepting tabs located on the dental guide; and

bores and bosses extending radially from the front surface of said fixation base.

8. (Original) The apparatus of claim 6, further comprising a first dental guide, wherein the first dental guide is a mouthpiece configured and dimensioned to surround teeth of the patient and to releasably attach to the fixation base and to be removed after the fixation base is affixed to the maxillary or mandibular bone structure of a patient.

9. (Currently amended) The apparatus of claim 6, wherein the ~~manually releasable attachment~~ surface elements of the fixation base includes a plurality of slots in the horizontal surface ~~of said base member of the fixation base~~, wherein the dental guide includes a plurality of tabs extending toward and fitting closely with the slots of the fixation base, whereby the dental guide engages the fixation base by interfit between the slots of the fixation base and the tabs of the guide apparatus.

10. (Currently amended) The apparatus of claim 6, further comprising a second dental guide ~~attachable to the fixation base,~~ wherein the second dental guide is a drill guide for guiding ~~the~~ drilling of holes for the implants, ~~the drill guide attachable to the fixation base in a position,~~ wherein the drill guide ~~includes~~ is in vertical registry with the maxillary or mandibular jaw bone, ~~the drill guide including a seating feature cooperating with the attachment elements of the fixation base,~~ and a plurality of generally vertical bores corresponding in location to and in axial registry with intended implant sites.

11. (Currently amended) The apparatus of claim 10, wherein the drill guide is made from a metal, ~~or metallic alloy, composite, polymer, or any other material that is sufficiently strong enough to withstand breakage during a prosthesis installation procedure~~ and comprises a support bar ~~attachable to the fixation base,~~ a plurality of bosses with one boss for each one of the vertical bores, the bosses located rearwardly of the support bar and attached to the support bar by arms such that voids exist between the bosses and the support bar, the voids enabling direct observation of patient anatomy and insertion of irrigation and evacuation apparatus.

12. (Currently amended) The apparatus of claim 6, further comprising a third dental guide ~~attachable to the fixation base,~~ wherein the third dental guide is an abutment guide ~~base including:~~

~~-----bores sized and oriented to receive abutments and guide the abutments for placement against the implants, and wherein~~

~~-----the abutment guide base is attachable to the fixation base in a position wherein the bores are in vertical registry with the maxillary or mandibular jaw bone and the implants.~~

13. (Currently amended) A method of installing a fixation base in a maxillary or mandibular position in a mouth of a patient, the method comprising:

~~obtaining anatomical data of at least some of the surfaces of the maxillary or mandibular portion of the mouth of the patient;~~

~~utilizing a fixation base for providing an attachment surface for a dental guide used during a dental prosthesis installation procedure, wherein the fixation base comprises a generally arcuate shape with a front surface that has a plurality of openings through which fasteners can be passed through, a rear surface, and a horizontal surface,~~
attachment elements;

~~utilizing a mouthpiece generated at least in part from the obtained anatomical data;~~
attaching the mouthpiece to the fixation base using said attachment elements;

installing the mouthpiece onto at least some surfaces of the maxillary or mandibular portion of the mouth of the patient to assist in positioning the fixation base appropriately prior to installing the fixation base to maxillary or mandibular bone tissue of the patient;

installing the fixation base to the maxillary or mandibular portions of the patient using fasteners through said plurality of openings in said front surface of the fixation base; and

~~detaching removing the mouthpiece from the fixation base, using said attachment elements;~~

14. (New) The apparatus of claim 1, further comprising the step of:

utilizing a third dental guide, wherein the third dental guide is an abutment guide base that attaches to the installed fixation base to assure appropriate location for the installed abutments.

15. (New) The apparatus of claim 6, wherein the fixation base is made from a metal, metallic alloy, composite, polymer, or any other material that is sufficiently strong enough to withstand breakage during a prosthesis installation procedure.

16. (New) The apparatus of claim 6, wherein the fixation base further comprises a surface to assist in recontouring of bone tissue.

17. (New) The apparatus of claim 6, further comprising a fourth guide apparatus, wherein the fourth guide apparatus is a bone reduction guide that attaches to the installed fixation base to assist in recontouring of bone tissue.

18. (New) The apparatus of claim 6, further comprising a dental prosthesis, wherein the dental prosthesis attaches to the installed fixation base.

THIRD-PARTY SUBMISSION UNDER 37 CFR 1.290 CONCISE DESCRIPTION OF RELEVANCE		
Application Number	17503359	
U.S. PATENTS		
Cite No	Patent Number	Concise Description of Relevance

U.S. PATENT APPLICATION PUBLICATION		
Cite No	Publication Number	Concise Description of Relevance

FOREIGN PATENT DOCUMENTS		
CiteNo	Foreign Document Number	Concise Description of Relevance

NON-PATENT PUBLICATIONS		
Cite No	Reference	Concise Description of Relevance
1	Office Action, U.S. Patent App. Serial No. 15/984,309, March 19, 2020	See attached

2	PIKOS, Full Arch Guided Implant Surgery - Same Day Teeth Surgical Instruction Course All on 4, https://www.youtube.com/watch?v=e-MD8Q8uJkc , Pikos Institute, March 2014	See attached
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3	HARRIS et al., Creation of a 3-Dimensional Virtual Dental Patient for Computer-Guided Surgery and CAD-CAM Interim Complete Removable and Fixed Dental Prosthesis: A Clinical Report, The Journal of Prosthetic Dentistry, February 2017, Volume 117, Issue 2, pgs. 197-204	See attached
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4	IBUR BIOSYSTEMS, Surgical Guide Options, http://www.iburbiosystems.com/wp-content/uploads/2014/12/Surgical-Guide-Options.pdf , March 2016	See attached
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5	SCHERER et al., All-on-4® nSequence® Implant Surgical Technique Using Zest Chairside® Attachment Processing Material, nSequence, https://www.youtube.com/watch?v=VOWRdFpfngI , October 2015	See attached
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6	ALZOUBI et al., Bone Reduction to Facilitate Immediated Implant Placement and Loading Using CAD/CAM Surgical Guides for Patients with Terminal Dentition, Journal of Oral Implantology, June 2016	See attached
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THIRD-PARTY SUBMISSION UNDER 37 CFR 1.290	Application Number	17503359

U.S. PATENTS

Cite No	Patent Number	Kind Code ¹	Issue Date (YYYY-MM-DD)	First Named Inventor

U.S. PATENT APPLICATION PUBLICATIONS

Cite No	Publication Number	Kind Code ¹	Publication Date (YYYY-MM-DD)	First Named Inventor

FOREIGN PATENTS AND PUBLISHED FOREIGN PATENT APPLICATIONS

Cite No	Foreign Document Number ³	Country Code ²	Kind Code ¹	Publication Date (YYYY-MM-DD)	Applicant, Patentee or First Named Inventor	T ⁵
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NON-PATENT PUBLICATIONS (e.g., journal article, Office action)

Cite No	Author (if any), title of the publication, page(s) being submitted, publication date, publisher (where available), place of publication (where available).	T ⁵	E ⁶

THIRD-PARTY SUBMISSION UNDER 37 CFR 1.290	Application Number	17503359

1	ALZOUBI et al., Bone Reduction to Facilitate Immediated Implant Placement and Loading Using CAD/CAM Surgical Guides for Patients with Terminal Dentition, Journal of Oral Implantology, June 2016	☐	☐
2	SCHERER et al., All-on-4® nSequence® Implant Surgical Technique Using Zest Chairside® Attachment Processing Material, nSequence, https://www.youtube.com/watch?v=VOWRdFpfnGI , October 2015	☐	☐
3	IBUR BIOSYSTEMS, Surgical Guide Options, http://www.iburbiosystems.com/wp-content/uploads/2014/12/Surgical-Guide-Options.pdf , March 2016	☐	☐

THIRD-PARTY SUBMISSION UNDER 37 CFR 1.290	Application Number	17503359

4	HARRIS et al., Creation of a 3-Dimensional Virtual Dental Patient for Computer-Guided Surgery and CAD-CAM Interim Complete Removable and Fixed Dental Prosthesis: A Clinical Report, The Journal of Prosthetic Dentistry, February 2017, Volume 117, Issue 2, pgs. 197-204	☐	☐
5	PIKOS, Full Arch Guided Implant Surgery - Same Day Teeth Surgical Instruction Course All on 4, https://www.youtube.com/watch?v=e-MD8Q8uJkc , Pikos Institute, March 2014	☐	☐
6	Office Action, U.S. Patent App. Serial No. 15/984,309, March 19, 2020	☐	☐

STATEMENTS
The party making the submission is not an individual who has a duty to disclose information with respect to the above-identified application under 37 CFR 1.56.
This submission complies with the requirements of 35 U.S.C. 122(e) and 37 CFR 1.290.

THIRD-PARTY SUBMISSION UNDER 37 CFR 1.290	Application Number	17503359

☒ The fee set forth in 37 CFR 1.290(f) has been submitted herewith.			
☐ The fee set forth in 37 CFR 1.290(f) is not required because this submission lists three or fewer total items and, to the knowledge of the person signing the statement after making reasonable inquiry, this submission is the first and the only submission under 35 U.S.C 122(e) filed in the above-identified application by the party making the submission or by a party in privity with the party.			
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Signature	/Ryan Simmons/		
Name/Print	Ryan K. Simmons	Registration Number (if applicable)	45848
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Application Number (required):

17/503,359

U.S. PATENTS AND U.S. PATENT APPLICATION PUBLICATIONS

Cite No.	Document Number	Issue Date or Publication Date	First Named Inventor
	Number-Kind Code ¹	MM/DD/YYYY	
1	US- 6672870 B2	01/06/2004	Knapp, John G.
2	US- 20160038255 A1	02/11/2016	Daniel R. Llop
3	US- 20140272778 A1	09/18/2014	Daniel R. Llop
4	US- 20170112592 A1	04/27/2017	Randall C. Groscurth
5	US- 20150010881 A1	01/08/2015	Daniel R. Llop
6	US- 20130071811 A1	03/21/2013	Groscurth et al.
	US-		
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FOREIGN PATENTS AND PUBLISHED FOREIGN PATENT APPLICATIONS

Cite No.	Country or Patent Office and Document Number	Publication Date	Applicant, Patentee or First Named Inventor	Translation Attached
	Country Code ² -Number ³ -Kind Code ⁴	MM/DD/YYYY		
1	WO 2017069797 A1	04/27/2017	Llop, Daniel R.	☐
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(Page 2 of 2)

Application Number (required):

17/503,359

NON-PATENT PUBLICATIONS (e.g., journal article, Office action)

Cite No.	Author (if any), title of the publication, page(s) being submitted, publication date, publisher (where available), and place of publication (where available)	Translation Attached	Evidence of Publication Attached
1	CHARETTE et al., "Cone Beam Computed Tomography Imaging as a Primary Diagnostic Tool for Computer-Guided Surgery and CAD-CAM Interim Removable and Fixed Dental Prostheses," The Journal of Prost	☐	☒
2	PIKOS et al., "Guided Full-Arch Immediate-Function Treatment Modality for the Edentulous and Terminal Dentition Patient," Copeidum, February 2015, Volume 36, Issue 2	☐	☒
3	NATALIE Y. WONG, "Predictable Immediate Implant Prosthetics using Guided Surgery and Guided Prosthetics: A Case Report," Oral Health Group, January 2016	☐	☒
4	ALZOUBI et al., "Bone Reduction to Facilitate Immediated Implant Placement and Loading Using CAD/CAM Surgical Guides for Patients with Terminal Dentition," Journal of Oral Implantology, June 2016	☐	☒
5	HARRIS et al., "Creation of a 3-Dimensional Virtual Dental Patient for Computer-Guided Surgery and CAD-CAM Interim Complete Removable and Fixed Dental Prostheses: A Clinical Report," The Journal of Prost	☐	☒
6	PIKOS, "Full Arch Guided Implant Surgery - Same Day Teeth Surgical Instruction Course All on 4," https://www.youtube.com/watch?v=e-MD8Q8uJkc , Pikos Institute, March 2014	☐	☒
7	SCHERER et al., "All-on-4® nSequence® Implant Surgical Technique Using Zest Chain® Attachment Processing Material," nSequence, https://www.youtube.com/watch?v=VOWRdFphnGI , October 2015	☐	☒
8	IBUR BIOSYSTEMS, "Surgical Guide Options," http://www.iburbiosystems.com/wp-content/uploads/2014/12/Surgical-Guide-Options.pdf , March 2016	☐	☒
9	Office Action, U.S. Patent App. Serial No. 15/984,309, March 19, 2020	☐	☒
		☐	☐
		☐	☐

STATEMENTS

The party making the submission is not an individual who has a duty to disclose information with respect to the above-identified application under 37 CFR 1.56.

This submission complies with the requirements of 35 U.S.C. 122(e) and 37 CFR 1.290.

- ☒ The following fee set forth in 37 CFR 1.290(f) is submitted herewith: ☐ regular undiscounted ☒ small entity*
- ☐ The fee set forth in 37 CFR 1.290(f) is not required because this submission lists three or fewer total items and, to the knowledge of the person signing the statement after making reasonable inquiry, this submission is the first and only submission under 35 U.S.C. 122(e) filed in the above-identified application by the party making the submission or by a party in privity with the party.
- ☐ This resubmission is being made responsive to a notification of non-compliance issued for an earlier filed third-party submission. The corrections in this resubmission are limited to addressing the non-compliance. As such, the party making this resubmission: (1) requests that the Office apply the previously-paid fee set forth in 37 CFR 1.290(f), or (2) states that no fee is required to accompany this resubmission as the undersigned is again making the fee exemption statement set forth in 37 CFR 1.290(g).

Signature	/Ryan Simmons/	Date	03/10/2022
Name (Printed/Typed)	Ryan K. Simmons	Reg. No., if applicable	45848

Examiner Signature**		Date Considered	
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*SUBMITTER: By selecting the "small entity" box and paying the applicable small entity fee, the party making the submission asserts that the party qualifies as a small entity. A third party is not eligible for the micro entity discount.

**EXAMINER: Signature indicates all items listed have been considered, except for citations through which a line is drawn. Draw line through citation if not considered. Include a copy of this form with next communication to applicant.

Privacy Act Statement

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Publication No.: US 2022/0031431 A1
Serial No.: 17/503,359
Filed: October 18, 2021
First Named Inventor: Jason Watson
Title: Fixation Base and Guides for Dental Prosthesis
Installation

THIRD-PARTY PREISSUANCE SUBMISSION UNDER 37 CFR § 1.290

Documents Being Submitted

U.S. Patents:

1. U.S. Patent No. 6,672,870 B2; issued 01/06/2004; first named inventor: Knapp, John G.; entitled: Method and instrumentation for attaching dentures ("**Knapp Patent**").

U.S. Published Patent Applications:

1. U.S. Publication No. 20160038255 A1; Published 02/11/2016; first named inventor: Daniel R. Llop; entitled: Bone Foundation Guide System and Method ("**Llop '255 Publication**").
2. U.S. Publication No. 20140272778 A1; Published 09/18/2014; first named inventor: Daniel R. Llop; entitled: Bone Foundation Guide System and Method ("**Llop '778 Publication**").
3. U.S. Publication No. 20170112592 A1; Published 04/27/2017; first named inventor: Randall C. Groscurth; entitled: Method of using an Endentulous Surgical Guide ("**Groscurth '592 Publication**").

U.S. Patent App. Serial No.: 17/503,359
U.S. Patent App. Pub. No.: US 2022/0031431 A1
Filed: October 18, 2021
Third-Party Preissuance Submission Under 37 CFR § 1.290

4. U.S. Publication No. 20150010881 A1; Published 01/08/2015; first named inventor: Daniel R. Llop; entitled: Bone Foundation Guide and Method of Use ("**Llop '881 Publication**").

5. U.S. Publication No. 20130071811 A1; Published 03/21/2013; first named inventor: Groscurth et al.; entitled: Edentulous Surgical Guide ("**Groscurth '811 Publication**").

Published Foreign Patent Applications:

1. International Publication No. WO 2017/069797 A1, published April 2017; first named inventor: Llop, Daniel R.; entitled: Bone Foundation Guide System and Method ("**Llop '797 WO Publication**").

Non-Patent Publications:

1. CHARETTE et al., "Cone Beam Computed Tomography Imaging as a Primary Diagnostic Tool for Computer-Guided Surgery and CAD-CAM Interim Removable and Fixed Dental Prostheses," The Journal of Prosthetic Dentistry, August 2016, pgs. 157-165 ("**Charette August 2016 Article**").
2. PIKOS et al., "Guided Full-Arch Immediate-Function Treatment Modality for the Edentulous and Terminal Dentition Patient," Copeidum, February 2015, Volume 36, Issue 2 ("**Pikos February 2015 Article**").
3. NATALLIE Y. WONG, "Predictable Immediate Implant Prosthetics using Guided Surgery and Guided Prosthetics: A Case Report," Oral Health Group, January 2016 ("**Wong January 2016 Article**").
4. ALZOUBI et al., "Bone Reduction to Facilitate Immediated Implant Placement and Loading Using CAD/CAM Surgical Guides for Patients with Terminal

Dentition," Journal of Oral Implantology, June 2016 ("**Alzoubi June 2016 Article**").

5. HARRIS et al., "Creation of a 3-Dimensional Virtual Dental Patient for Computer-Guided Surgery and CAD-CAM Interim Complete Removable and Fixed Dental Prosthesis: A Clinical Report," The Journal of Prosthetic Dentistry, February 2017, Volume 117, Issue 2, pgs. 197-204 ("**Harris February 2017 Article**").
6. PIKOS, "Full Arch Guided Implant Surgery - Same Day Teeth Surgical Instruction Course All on 4," <https://www.youtube.com/watch?v=e-MD8Q8uJkc>, Pikos Institute, March 2014 ("**Pikos March 2014 YouTube Video**").
7. SCHERER et al., "All-on-4® nSequence® Implant Surgical Technique Using Zest Chairside® Attachment Processing Material," nSequence, <https://www.youtube.com/watch?v=VOWRdFpfnGI>, October 2015 ("**Scherer October 2015 YouTube Video**").
8. IBUR BIOSYSTEMS, "Surgical Guide Options," <http://www.iburbiosystems.com/wp-content/uploads/2014/12/Surgical-Guide-Options.pdf>, March 2016 ("**Ibur March 2016 Surgical Guide Options**").
9. Office Action, U.S. Patent App. Serial No. 15/984,309, March 19, 2020 ("**309 Office Action**").

Concise Description of Relevance of the Submitted Documents

Claim 1 (as amended on 2/11/2022) US Pat. App. Serial No. 17/503,359	REFERENCES
A method of installing a multi-tooth dental prosthesis in a maxillary or mandibular position in a mouth of a patient, the method comprising:	<p>Knapp Patent: <i>See</i>, inter alia, Abstract "A method and apparatus for mounting a dental prosthesis to an upper or lower jaw of a patient"; and Summary "The invention also provides a method for mounting a dental prosthesis to the patient's residual ridge."</p> <p>Wong January 2016 Article: <i>See</i>, inter alia, Introduction "This article discusses a novel and predictable protocol for a clinician to deliver a full arch immediate fixed prosthesis that is both functionally and esthetically appealing to both practitioners and patients"; pgs. 1-3 and 19-21; and steps I-X</p>
providing a dental prosthesis for the maxillary or mandibular positioning in the patient's mouth;	<p>Knapp Patent: <i>See</i>, inter alia, Abstract "A method and apparatus for mounting a dental prosthesis to an upper or lower jaw of a patient"; and Summary "The invention also provides a method for mounting a dental prosthesis to the patient's residual ridge."</p> <p>Wong January 2016 Article: <i>See</i>, inter alia, Introduction "This article discusses a novel and predictable protocol for a clinician to deliver a full arch immediate fixed prosthesis that is both functionally and esthetically appealing to both practitioners and patients"; pgs. 1-3 and 19-21; and steps I-X</p>
utilizing a fixation base to serve as a mounting jig for a plurality of other dental guides comprising a first dental guide and a second dental guide, wherein the fixation base comprises a generally arcuate shape with a front surface that has a plurality of openings through which fasteners can be passed, a rear surface, and a horizontal surface;	<p>Charette August 2016 Article: <i>See</i>, inter alia, Abstract; Pg. 161 "(Fig. 6B). The implant placement template was then assembled on the bone foundation guide to provide the guidance of implant placements"; Pg. 162, Figure 5A-D description, Pg. 163 Figure 6A-E description; Figs. 5A-D and 6A-E</p> <p>Groscurth '592 Publication: <i>See</i>, inter alia, Abstract; para. [0010] "The surgical guide set may include a base frame and one or more attachable/detachable superstructures such as a surgical drill guide section, transfer appliance section and temporary prosthesis section."; Figs. 11, 17 (1203-1205); 20A-F</p> <p>Pikos February 2015 Article: <i>See</i>, inter alia, Abstract; Para. 13 "bone foundation guide™ is set and fixed in place with anchor pins. Prior to pin</p>

	<p>fixation, the specific location of the bone foundation guide is verified with a bite index and the opposing arch (Figure 7). The guide struts are then removed", Para. 14 "The surgical guide is pin-indexed onto the bone foundation guide.", Paras. 26-27; Figs. 6-11, 19-27</p> <p>Wong January 2016 Article: <i>See</i>, inter alia, pgs. 8-14, Stage 5, II-IV; Figs 12-24</p> <p>Llop '797 WO Publication: <i>See</i>, inter alia, Abstract; Para. [0019] "the bone foundation guide could comprise of a body and one or more removable anchoring struts that reversibly connect buccal and lingual walls of the body, an apex of the anchoring strut could denote one or more indentations whose contours matching up with one or more portions of dentition, tissue or both from an opposing alveolar ... to allow the indentions to removably receive the one or more portions of dentition, tissue or both from an opposing alveolar ridge"; Para. [0082] "bone foundation guide body 22 may be further penetrated by one or more attachment apertures 38 that may be oriented to pass through a buccal 24 wall. Body fasteners 40 may pass through the attachment apertures 38 to into the bone 14 of the dental surgical site 12 to removably secure the bone foundation guide body 22 to dental surgical site 12."; Figs.1, 4-6, 12-13</p>
<p>utilizing the first dental guide, wherein the first dental guide is a mouthpiece that attaches to the fixation base and is used to assure appropriate location to attach the fixation base to the maxillary or mandibular bone tissue of said patient;</p>	<p>Pikos February 2015 Article: <i>See</i>, inter alia, Abstract; Para. 13 "The surgical technique begins with the validation of the original occlusal bite registration. A clear splint is made to confirm the bite and is tried in the mouth before anesthetizing the patient. Prior to pin fixation, the specific location of the bone foundation guide is verified with a bite index and the opposing arch (Figure 7)"; Fig. 7 (Occlusal bite & Specific location of the bone foundation guide is verified with a bite index serves the same meaning and purpose as the mouthpiece use to assure appropriate location to attach fixation base)</p> <p>Charette August 2016 Article: <i>See</i>, inter alia, Abstract; Pg. 159 "The first piece of surgical template, a bone foundation guide, was to be fitted on the alveolar ridges after extractions and stabilized with anchor pins (Guided Anchor Pin; Nobel Biocare). Three reposition jigs were designed to</p>

	<p>facilitate the correct seating of this bone foundation guide (Fig. 5A)"; Fig. 5 (the positioning device serves the same purpose and meaning as the mouthpiece)</p> <p>Wong January 2016 Article: <i>See</i>, inter alia, Stage 5 II, pgs. 8-9 "these struts, they help to stabilize and position the bone foundation guide" ("positioning struts" serves the same meaning and purpose as the mouthpiece)</p>
installing the fixation base to the maxillary or mandibular bone tissue of said patient;	<p>Knapp Patent: <i>See, See</i>, inter alia., Column 3, Line 9-12; Claim 5</p> <p>Pikos February 2015 Article: <i>See</i>, inter alia, Abstract; Para. 13; "The teeth are extracted, and the proprietary nSequence® bone foundation guide™ is set and fixed in place with anchor pins"; Paras. 26-27 "A surgical guide was placed over the edentulous maxillary arch and secured with three fixation pins while using a bite registration against the opposing natural teeth and RPD to verify its appropriate 3-D position (Figure 19)." and "The mandibular bone foundation guide was placed and indexed with fixation pins with a bite registration in place opposing the maxillary hybrid prosthesis (Figure 23)."; Figs. 7, 19, 23</p>
removing the mouthpiece from the installed fixation base;	<p>Wong January 2016 Article: <i>See</i>, inter alia, Stage 5 II, pg. 10 "The positioning struts were then removed" ("Positioning struts were then removed" serves the same meaning and purpose as removing the mouthpiece)</p> <p>Alzoubi June 2016 Article: <i>See</i>, inter alia, Abstract; Pg. 5; "The first guide was then removed, teeth were extracted, and then the second bone supported surgical guide was placed and stabilized by the same anchor pins placed at exactly the same locations as the first tooth-supported surgical guide" ("The first guide was then removed" serves the same meaning and purpose as removing the mouthpiece)</p>
removing at least one of natural teeth, dental fixtures, and obstructive mouth tissues from the work site, to expose an underside of the maxillary or mandibular bone tissue;	<p>Knapp Patent: <i>See</i>, inter alia, Column 3, Line 57-62; Claim 7</p> <p>Alzoubi June 2016 Article: <i>See</i>, inter alia, Abstract; Pg. 5; "The first guide was then removed, teeth were extracted"</p> <p>Pikos February 2015 Article: <i>See</i>, inter alia, Abstract; Para. 13 "The teeth are extracted"</p>
recontouring the bone tissue;	<p>Harris February 2017 Article: <i>See</i>, inter alia, pg.</p>

	200 “Bone foundation guide fitted over post-extraction alveolar ridge to provide guidance for complete planned bone reduction.”; Fig. 6A and associated description
	Charette August 2016 Article: <i>See</i> , inter alia, pg. 161 “The planned osseous recontouring was completed with the guidance of the bone foundation guide”; Fig. 6B and associated description
utilizing the second dental guide, wherein the second dental guide is a drill guide that attaches to the installed fixation base to assure appropriate location and orientation of holes to be drilled for the subsequently installed implants;	Knapp Patent: <i>See</i> , inter alia, Column 1, Line 39-44; Claim 1
	Pikos February 2015 Article: <i>See</i> , inter alia, Para. 14 “The surgical guide is pin-indexed onto the bone foundation guide. Next, the appropriate surgical drilling sequence is followed to complete the osteotomies for implant placement.”
	Alzoubi June 2016 Article: <i>See</i> , inter alia, Abstract; Pg. 5; “The first guide was then removed, teeth were extracted, and then the second bone supported surgical guide was placed and stabilized by the same anchor pins placed at exactly the same locations as the first tooth-supported surgical guide”
	Pikos March 2014 YouTube Video: <i>See</i> , inter alia, at about the 20-23 second mark in the video showing a second dental guide being used as a drill guide that attaches to the installed fixation base
drilling the implant holes in the bone tissue using the drill guide attached to the fixation base;	Knapp Patent: <i>See</i> , inter alia, Column 2, Line 2-9; Claims 8, 10
	Pikos March 2014 YouTube Video: <i>See</i> , inter alia, at about the 24-25 second mark in the video that shows drilling the implant holes in the bone tissue using the drill guide attached to the fixation base
	Pikos February 2015 Article: <i>See</i> , inter alia, Para. 14 “Next, the appropriate surgical drilling sequence is followed to complete the osteotomies for implant placement”
	Groscurth '592 Publication: <i>See</i> , inter alia, para. [0140] “osteotomies are drilled, and implants are placed (step 1204)”; Fig. 17 (1204)
installing implants in the implant holes;	Knapp Patent: <i>See</i> , inter alia, Column 2, Line 20-33; Claim 8
	Groscurth '592 Publication: <i>See</i> , inter alia, para. [0140] “osteotomies are drilled, and implants are placed (step 1204)”; Fig. 17 (1204)
	Charette August 2016 Article: <i>See</i> , inter alia, pg.

	161 “The implant placement template was then assembled on the bone foundation guide to provide the guidance of implant placements”; Fig. 6C and associated description.
	Pikos March 2014 YouTube Video: <i>See</i> , inter alia, at about the 27-28 second mark in the video that shows installing implants in the implant holes
installing the abutments to the implants; and	Knapp Patent: <i>See</i> , inter alia, Column 2, Line 20-33; Claim 8
	Charette August 2016 Article: <i>See</i> , inter alia, pg. 161 “After the implant placement, interim abutments ... were attached to implants”
	Harris February 2017 Article: <i>See</i> , inter alia, pg. 200 “The definitive abutments ... were attached to the implants.”; Fig. 6B and associated description
	Scherer October 2015 YouTube Video: <i>See</i> , inter alia, at about the 4:50 - 4:52 minute mark that shows installing the abutments to the implants.
installing said dental prosthesis to the abutments.	Knapp Patent: <i>See</i> , inter alia, Column 2, Line 20-33; Claim 8
	Charette August 2016 Article: <i>See</i> , inter alia, pg. 161 “Autopolymerizing composite resin ... was used to connect the interim abutments and mandibular interim ICFDP” (ICFDP- implant supported complete fixed dental prostheses)
	Harris February 2017 Article: <i>See</i> , inter alia, pg. 200 “The mandibular interim ICFDP was ... secured to the definitive abutments.” (ICFDP- implant supported complete fixed dental prostheses)
	Scherer October 2015 YouTube Video: <i>See</i> , inter alia, at about the 5:36 – 5:37 minute mark that shows installing the dental prosthesis to the abutments.

Claim 6 (as amended on 2/11/2022) US Pat. App. Serial No. 17/503,359	REFERENCES
An apparatus for installing a dental prosthesis to maxillary or mandibular jaw bone of a patient, the apparatus comprising:	Knapp Patent: <i>See</i> , inter alia, Abstract "A method and apparatus for mounting a dental prosthesis to an upper or lower jaw of a patient"; and Summary "The invention also provides a method for mounting a dental prosthesis to the patient's residual ridge."
	Wong January 2016 Article: <i>See</i> , inter alia, Introduction "This article discusses a novel and predictable protocol for a clinician to deliver a full

	arch immediate fixed prosthesis that is both functionally and esthetically appealing to both practitioners and patients"; pgs. 1-3 and 19-21; and steps I-X
a fixation base for providing an attachment surface for a dental guide used during a dental prosthesis installation procedure, the fixation base further comprising a generally arcuate base member with a front surface that includes a plurality of openings through which fasteners can be passed, a rear surface, and a horizontal surface.	Ibur March 2016 Surgical Guide Options
	Wong January 2016 Article: <i>See</i> , inter alia, Stage 5 II, Pgs. 8-9 "The "bone foundation" guide was placed to fit over the alveolus" and "Once the guide was seated ... guided fixation pins were placed with depth control to secure the guide"; Stage 5 III, Pgs. 11 "Next, the implant placement guide was placed (Fig. 18) and indexed to fit into the bone foundation guide, ... (Fig. 19)."
	Groscurth '592 Publication: <i>See</i> , inter alia, Abstract; para. [0010] "The surgical guide set may include a base frame and one or more attachable/detachable superstructures such as a surgical drill guide section, transfer appliance section and temporary prosthesis section."; Figs. 11, 17 (1203-1205); 20A-F
	Charette August 2016 Article: <i>See</i> , inter alia, Abstract; Pg. 161 "(Fig. 6B). The implant placement template was then assembled on the bone foundation guide to provide the guidance of implant placements"; Pg. 162, Figure 5A-D description, Pg. 163 Figure 6A-E description; Figs. 5A-D and 6A-E
	Llop '797 WO Publication: <i>See</i> , inter alia, Abstract; Para. [0019] "the bone foundation guide could comprise of a body and one or more removable anchoring struts that reversibly connect buccal and lingual walls of the body, an apex of the anchoring strut could denote one or more indentations whose contours matching up with one or more portions of dentition, tissue or both from an opposing alveolar ... to allow the indentions to removably receive the one or more portions of dentition, tissue or both from an opposing alveolar ridge"; Para. [0082] "bone foundation guide body 22 may be further penetrated by one or more attachment apertures 38 that may be oriented to pass through a buccal 24 wall. Body fasteners 40 may pass through the attachment apertures 38 to into the bone 14 of the dental surgical site 12 to removably secure the bone foundation guide body 22 to dental surgical site 12."; Figs.1, 4-6, 12-13
	Ibur March 2016 Surgical Guide Options

Claim 13 (as amended on 2/11/2022) US Pat. App. Serial No. 17/503,359	REFERENCES
A method of installing a fixation base in a maxillary or mandibular position in a mouth of a patient, the method comprising:	<p>Knapp Patent: <i>See</i>, inter alia, Column 3, Line 9-12; Claim 5</p> <p>Pikos February 2015 Article: <i>See</i>, inter alia, Abstract; Para. 13; “The teeth are extracted, and the proprietary nSequence® bone foundation guide™ is set and fixed in place with anchor pins”; Paras. 26-27 "A surgical guide was placed over the edentulous maxillary arch and secured with three fixation pins while using a bite registration against the opposing natural teeth and RPD to verify its appropriate 3-D position (Figure 19)." and "The mandibular bone foundation guide was placed and indexed with fixation pins with a bite registration in place opposing the maxillary hybrid prosthesis (Figure 23)."; Figs. 7, 19, 23</p>
utilizing a fixation base for providing an attachment surface for a dental guide used during a dental prosthesis installation procedure, wherein the fixation base comprises a generally arcuate shape with a front surface that has a plurality of openings through which fasteners can be passed through, a rear surface, and a horizontal surface;	<p>Charette August 2016 Article: <i>See</i>, inter alia, Abstract; Pg. 161 “(Fig. 6B). The implant placement template was then assembled on the bone foundation guide to provide the guidance of implant placements”; Pg. 162, Figure 5A-D description, Pg. 163 Figure 6A-E description; Figs. 5A-D and 6A-E</p> <p>Groscurth '592 Publication: <i>See</i>, inter alia, Abstract; para. [0010] “The surgical guide set may include a base frame and one or more attachable/detachable superstructures such as a surgical drill guide section, transfer appliance section and temporary prosthesis section.”; Figs. 11, 17 (1203-1205); 20A-F</p> <p>Pikos February 2015 Article: <i>See</i>, inter alia, Abstract; Para. 13 "bone foundation guide™ is set and fixed in place with anchor pins. Prior to pin fixation, the specific location of the bone foundation guide is verified with a bite index and the opposing arch (Figure 7). The guide struts are then removed", Para. 14 "The surgical guide is pin-indexed onto the bone foundation guide.", Paras. 26-27; Figs. 6-11, 19-27</p> <p>Wong January 2016 Article: <i>See</i>, inter alia, pgs. 8-14, Stage 5, II-IV; Figs 12-24</p> <p>Llop '797 WO Publication: <i>See</i>, inter alia, Abstract; Para. [0019] “the bone foundation guide could comprise of a body and one or more removable anchoring struts that reversibly connect buccal and lingual walls of the body, an apex of the anchoring</p>

	<p>strut could denote one or more indentations whose contours matching up with one or more portions of dentition, tissue or both from an opposing alveolar ... to allow the indentions to removably receive the one or more portions of dentition, tissue or both from an opposing alveolar ridge"; Para. [0082] "bone foundation guide body 22 may be further penetrated by one or more attachment apertures 38 that may be oriented to pass through a buccal 24 wall. Body fasteners 40 may pass through the attachment apertures 38 to into the bone 14 of the dental surgical site 12 to removably secure the bone foundation guide body 22 to dental surgical site 12."; Figs.1, 4-6, 12-13</p>
utilizing a mouthpiece;	<p>Pikos February 2015 Article: <i>See</i>, inter alia, Abstract; Para. 13 "The surgical technique begins with the validation of the original occlusal bite registration. A clear splint is made to confirm the bite and is tried in the mouth before anesthetizing the patient. Prior to pin fixation, the specific location of the bone foundation guide is verified with a bite index and the opposing arch (Figure 7)"; Fig. 7 (Occlusal bite & Specific location of the bone foundation guide is verified with a bite index serves the same meaning and purpose as the mouthpiece use to assure appropriate location to attach fixation base)</p> <p>Charette August 2016 Article: <i>See</i>, inter alia, Abstract; Pg. 160 "The first piece of surgical template, a bone foundation guide, was to be fitted on the alveolar ridges after extractions and stabilized with anchor pins (Guided Anchor Pin; Nobel Biocare). Three reposition jigs were designed to facilitate the correct seating of this bone foundation guide (Fig. 5A)"; Pg. 161 "The bone foundation guide with 3 reposition jigs was fitted on the alveolar ridge after extractions and stabilized with anchor pins ... (Fig. 6A)"; Fig. 5A, 6A (the positioning device serves the same purpose and meaning as the mouthpiece)</p> <p>Wong January 2016 Article: <i>See</i>, inter alia, Stage 5 II, pgs. 8-9 "these struts, they help to stabilize and position the bone foundation guide" ("positioning struts" serves the same meaning and purpose as the mouthpiece)</p>
attaching the mouthpiece to the fixation base;	<p>Pikos February 2015 Article: <i>See</i>, inter alia, Abstract; Para. 13 "The surgical technique begins with the</p>

	<p>validation of the original occlusal bite registration. A clear splint is made to confirm the bite and is tried in the mouth before anesthetizing the patient. Prior to pin fixation, the specific location of the bone foundation guide is verified with a bite index and the opposing arch (Figure 7)"; Fig. 7 (Occlusal bite & Specific location of the bone foundation guide is verified with a bite index serves the same meaning and purpose as the mouthpiece use to assure appropriate location to attach fixation base)</p> <p>Charette August 2016 Article: <i>See, inter alia, Abstract; Pg. 160</i> "The first piece of surgical template, a bone foundation guide, was to be fitted on the alveolar ridges after extractions and stabilized with anchor pins (Guided Anchor Pin; Nobel Biocare). Three reposition jigs were designed to facilitate the correct seating of this bone foundation guide (Fig. 5A)"; Pg. 161 "The bone foundation guide with 3 reposition jigs was fitted on the alveolar ridge after extractions and stabilized with anchor pins ... (Fig. 6A)"; Fig. 5A, 6A (the positioning device serves the same purpose and meaning as the mouthpiece)</p> <p>Wong January 2016 Article: <i>See, inter alia, Stage 5 II, pgs. 8-9</i> "these struts, they help to stabilize and position the bone foundation guide" ("positioning struts" serves the same meaning and purpose as the mouthpiece)</p>
<p>installing the mouthpiece onto at least some surfaces of the maxillary or mandibular portion of the mouth of the patient to assist in positioning the fixation base appropriately prior to installing the fixation base to maxillary or mandibular bone tissue of the patient;</p>	<p>Charette August 2016 Article: <i>See, inter alia, Abstract; Pg. 160</i> "The first piece of surgical template, a bone foundation guide, was to be fitted on the alveolar ridges after extractions and stabilized with anchor pins (Guided Anchor Pin; Nobel Biocare). Three reposition jigs were designed to facilitate the correct seating of this bone foundation guide (Fig. 5A)"; Pg. 161 "The bone foundation guide with 3 reposition jigs was fitted on the alveolar ridge after extractions and stabilized with anchor pins ... (Fig. 6A)"; Fig. 5A, 6A (the positioning device serves the same purpose and meaning as the mouthpiece)</p> <p>Groscurth '592 Publication: <i>See, inter alia, Abstract; para. [0139]; Figs. 17 (1203)</i> "Place the Surgical Guide Base Frame on the patient's oral structure. Optionally, attach the diagnostic restoration or bite registration attachment to the Base Frame to verify the placement</p>

	<p>of the Base Frame” (Attaching the diagnostic restoration or bite registration attachment surface to the base frame to verify placement of the base frame serves the same purpose and meaning as the mouthpiece assisting in positioning the fixation base)</p> <p>Pikos February 2015 Article: <i>See</i>, inter alia, Abstract; Para. 13 “The surgical technique begins with the validation of the original occlusal bite registration. A clear splint is made to confirm the bite and is tried in the mouth before anesthetizing the patient. Prior to pin fixation, the specific location of the bone foundation guide is verified with a bite index and the opposing arch (Figure 7)”; Fig. 7 (Occlusal bite & Specific location of the bone foundation guide is verified with a bite index serves the same meaning and purpose as the mouthpiece use to assure appropriate location to attach fixation base)</p>
installing the fixation base to the maxillary or mandibular portions of the patient using fasteners through said plurality of openings in said front surface of the fixation base; and	<p>Knapp Patent: <i>See</i>, inter alia, Column 3, Line 9-12; Claim 5</p> <p>Pikos February 2015 Article: <i>See</i>, inter alia, Abstract; Para. 13; “The teeth are extracted, and the proprietary nSequence® bone foundation guide™ is set and fixed in place with anchor pins”; Paras. 26-27 "A surgical guide was placed over the edentulous maxillary arch and secured with three fixation pins while using a bite registration against the opposing natural teeth and RPD to verify its appropriate 3-D position (Figure 19)." and "The mandibular bone foundation guide was placed and indexed with fixation pins with a bite registration in place opposing the maxillary hybrid prosthesis (Figure 23)."; Figs. 7, 19, 23</p> <p>Wong January 2016 Article: <i>See</i>, inter alia, Stage 5 II, pg. 9 “Once the guide was seated without any visible gaps, guided fixation pins were placed with depth control to secure the guide via engagement of the buccal and palatal bone (Figs. 13, 14)”; Figs. 13, 14</p>
removing the mouthpiece from the fixation base.	<p>Wong January 2016 Article: <i>See</i>, inter alia, Stage 5 II, pg. 10 “The positioning struts were then removed, and now the foundation guide served as the bone reduction guide” (disclosure “Positioning struts were then removed” serves the same meaning and purpose as removing the mouthpiece.)</p> <p>Alzoubi June 2016 Article: <i>See</i>, inter alia, Pg. 5; “The first guide was then removed, teeth were extracted, and</p>

	then the second bone supported surgical guide was placed and stabilized by the same anchor pins placed at exactly the same locations as the first tooth-supported surgical guide” (disclosure “The first guide was then removed” serves the same meaning and purpose as removing the mouthpiece.)
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References cited by the Examiner in the 3/19/2020 Office Action rejection of claims of Parent Application to US Pat. App. Serial No. 17/503,359 (US Pat. App. Serial No. 15/984,309), the claims of which are nearly identical in scope to the present pending claims of the US Pat. App. Serial No. 17/503,359

Claim 1 (as amended on 2/11/2022) US Pat. App. Serial No. 17/503,359	REFERENCE- Llop '255 Publication
A method of installing a multi-tooth dental prosthesis in a maxillary or mandibular position in a mouth of a patient, the method comprising:	Llop '255 Publication: Llop discloses installing a multi-tooth dental prosthesis (21) in a maxillary or mandibular position in a mouth (19) of a patient (<i>See</i> , inter alia, Background; Summary; Para. [0070] "prosthesis 21"; Figs. 23 and 26)
providing a dental prosthesis for the maxillary or mandibular positioning in the patient's mouth;	Llop '255 Publication: Llop discloses providing a dental prosthesis (21) for the maxillary or mandibular positioning in the patient's mouth (19) (<i>See</i> , inter alia, Background; Summary; Para. [0070] "prosthesis 21"; Figs. 23 and 26)
utilizing a fixation base to serve as a mounting jig for a plurality of other dental guides comprising a first dental guide and a second dental guide, wherein the fixation base comprises a generally arcuate shape with a front surface that has a plurality of openings through which fasteners can be passed, a rear surface, and a horizontal surface;	Llop '255 Publication: Llop discloses utilizing a fixation base (20) to serve as a mounting jig for a plurality of other dental guides comprising a first dental guide and a second dental guide (50, 80, 42), wherein the fixation base comprises a generally arcuate shape (Figs. 1, 4-6) with a front surface (24) that has a plurality of openings (38) through which fasteners (40) can be passed, a rear surface (26), and a horizontal surface (34 or 36) (<i>See</i> , inter alia, Background, Summary; Paras. [0060]-[0062]; Figs. 1, 4-6, 12, 17, 22)
utilizing the first dental guide, wherein the first dental guide is a mouthpiece that attaches to the fixation base and is used to assure appropriate location to attach the fixation base to the maxillary or mandibular bone tissue of said patient;	Llop '255 Publication: Llop discloses utilizing the first dental guide (42) to assure appropriate location to attach the fixation base (20) to the maxillary or mandibular bone tissue of said patient (<i>See</i> , inter alia, Paras. [0063]-[0064], [0074]; Figs. 3, 10-12)

installing the fixation base to the maxillary or mandibular bone tissue of said patient;	Llop '255 Publication: Llop discloses installing the fixation base (20) to the maxillary or mandibular bone tissue (14) of said patient (<i>See</i> , inter alia, Paras. [0040], [0062]-[0064], [0077]-[0078]; Figs. 10-12)
removing the mouthpiece from the installed fixation base;	Llop '255 Publication: Llop discloses removing the mouthpiece (42) from the installed fixation base (20) (<i>See</i> , inter alia, Paras. [0064]-[0066], [0078]-[0079]; Figs. 13-14)
removing at least one of natural teeth, dental fixtures, and obstructive mouth tissues from the work site, to expose an underside of the maxillary or mandibular bone tissue;	Llop '255 Publication: Llop discloses removing at least one of natural teeth, dental fixtures, and obstructive mouth tissues from the work site, to expose an underside of the maxillary or mandibular bone tissue (14) (<i>See</i> , inter alia, Para. [0076]; Figs. 8, 9)
recontouring the bone tissue;	Llop '255 Publication: Llop discloses recontouring the bone tissue (14) (<i>See</i> , inter alia, Para. [0046], [0079]; Figs. 15, 15A)
utilizing the second dental guide, wherein the second dental guide is a drill guide that attaches to the installed fixation base to assure appropriate location and orientation of holes to be drilled for the subsequently installed implants;	Llop '255 Publication: Llop discloses utilizing a drill guide (50) that attaches to the installed fixation base to assure appropriate location and orientation of holes to be drilled for the subsequently installed implants (<i>See</i> , inter alia, Paras. [0066]-[0069], [0080]; Figs. 16-19)
drilling the implant holes in the bone tissue using the drill guide attached to the fixation base;	Llop '255 Publication: Llop discloses drilling the implant holes in the bone tissue using the drill guide attached to the fixation base (<i>See</i> , inter alia, Para. [0081]; Figs. 16-19)
installing implants in the implant holes;	Llop '255 Publication: Llop discloses installing implants in the implant holes (<i>See</i> , inter alia, Para. [0081]; Figs. 16-19)
installing the abutments to the implants; and	Llop '255 Publication: Llop discloses installing the abutments to the implants (<i>See</i> , inter alia, Paras. [0070], [0083]; Figs. 21-22)
installing said dental prosthesis to the abutments.	Llop '255 Publication: Llop discloses installing said dental prosthesis to the abutments (<i>See</i> , inter alia, Paras. [0070], [0083]—[0085]; Figs. 23-26)

Claim 6 (as amended on 2/11/2022) US Pat. App. Serial No. 17/503,359	REFERENCES - Llop '255 Publication and Llop '778 Publication
<p>An apparatus for installing a dental prosthesis to maxillary or mandibular jaw bone of a patient, the apparatus comprising:</p>	<p>Llop '255 Publication: Llop discloses an apparatus (10) for installing a dental prosthesis (21) to maxillary or mandibular jaw bone of a patient (<i>See, inter alia</i>, Figs. 1, 23)</p> <p>Llop '778 Publication: Llop discloses an apparatus (10) for installing a dental prosthesis to maxillary or mandibular jaw bone of a patient (<i>See, inter alia</i>, Figs. 1-5; Summary, para [0013], "...provide an dental implant surgical guide that is reversibly combines with bone foundation guide to consequentially properly place a dental implant-retained prosthesis;"</p>
<p>a fixation base for providing an attachment surface for a dental guide used during a dental prosthesis installation procedure, the fixation base further comprising a generally arcuate base member with a front surface that includes a plurality of openings through which fasteners can be passed, a rear surface, and a horizontal surface.</p>	<p>Llop '255 Publication: Llop discloses a fixation base (20) (<i>See, inter alia</i>, Figs. 1, 4, 10, 15, 17, 19, 23) for providing an attachment surface for a dental guide (e.g., surgical guide 50) the fixation base (20) further comprising a generally arcuate base member (<i>See, shape of (20)</i>, for example, in Figs. 1, 4-6, 15A, 17-19, 21-23) with a front surface (24), a plurality of openings (38), fasteners (40), a rear surface (26), and a horizontal surface (34, 36) (<i>See, inter alia</i>, Figs. 1, 4-6)</p> <p>Llop '778 Publication: Llop discloses a fixation base (20) (<i>See, for example</i>, Figs. 1-3, 5) for providing an attachment surface for a dental guide (e.g., surgical guide 50) (<i>See, para [0033]</i> "The present invention 10 could comprise of bone foundation guide 20 that can accommodate and support a dental implant surgical guide 50 and a respective method or process of such use 100."), the fixation base (20) further comprising a generally arcuate base member (<i>See, shape of (20)</i>, for example, in Figs. 1-5) with a front surface (24), a plurality of openings (38), fasteners (40), a rear surface (26), and a horizontal surface (34, 36) (<i>See, inter alia</i>, Figs. 1, 4-6)</p>

Claim 13 (as amended on 2/11/2022) US Pat. App. Serial No. 17/503,359	REFERENCES
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A method of installing a fixation base in a maxillary or mandibular position in a mouth of a patient, the method comprising:	Llop '255 Publication: Llop discloses installing a fixation base (20) to the maxillary or mandibular bone tissue (14) of said patient (<i>See</i> , inter alia, Paras. [0040], [0062]-[0064], [0077]; Figs. 10-12)
utilizing a fixation base for providing an attachment surface for a dental guide used during a dental prosthesis installation procedure, wherein the fixation base comprises a generally arcuate shape with a front surface that has a plurality of openings through which fasteners can be passed through, a rear surface, and a horizontal surface;	Llop '255 Publication: Llop discloses utilizing a fixation base (20) for providing an attachment surface for a dental guide (50) used during a dental prosthesis installation procedure, wherein the fixation base (20) comprises a generally arcuate shape (Figs. 1, 4-6) with a front surface (24) that has a plurality of openings (38) through which fasteners (40) can be passed through, a rear surface (26), and a horizontal surface (34 or 36) (<i>See</i> , inter alia, Abstract, Background, Summary; Paras. [0060]-[0062]; Figs. 1, 4-6, 12, 17, 22)
utilizing a mouthpiece;	Llop '255 Publication: : Llop discloses utilizing a mouthpiece (42) (<i>See</i> , inter alia, Paras. [0063]-[0064]; Figs. 1-3, 10-12)
attaching the mouthpiece to the fixation base;	Llop '255 Publication: : Llop discloses attaching the mouthpiece (42) to the fixation base (20) (<i>See</i> , inter alia, Paras. [0063]-[0064], [0074]; Figs. 1-6)
installing the mouthpiece onto at least some surfaces of the maxillary or mandibular portion of the mouth of the patient to assist in positioning the fixation base appropriately prior to installing the fixation base to maxillary or mandibular bone tissue of the patient;	Llop '255 Publication: : Llop discloses installing the mouthpiece (42) onto at least some surfaces of the maxillary or mandibular portion of the mouth of the patient ("the dentition, tissue or both of the opposing alveolar ridge comes in contact with the anchoring strut(s)") to assist in positioning the fixation base (20) appropriately prior to installing the fixation base (20) to maxillary or mandibular bone tissue of the patient (<i>See</i> , inter alia, Paras. [0063]-[0064], [0077]; Figs. 3, 10-12)
installing the fixation base to the maxillary or mandibular portions of the patient using fasteners through said plurality of openings in said front surface of the fixation base; and	Llop '255 Publication: : Llop discloses installing the fixation base (20) to the maxillary or mandibular portions of the patient using fasteners (40) through said plurality of openings (38) in said front surface (24) of the fixation base (20) (<i>See</i> , inter alia, Paras. [0062]-[0064], [0077]-[0078]; Figs. 10-12)
removing the mouthpiece from the fixation base.	Llop '255 Publication: : Llop discloses removing the mouthpiece from the fixation base (<i>See</i> , inter alia, Paras. [0064]-[0066], [0078]-[0079]; Figs. 13-14)

With regard to dependent claims 2-5, 7-12, 14-18 (as amended on 2/11/2022) of US Pat. App. Serial No. 17/503,359 (the "'359 application"), all the elements of these dependent claims are thoroughly disclosed in at least the prior art included with this present submission. Additionally, all the elements of the dependent claims of the '359 application are found in the as-filed claims of the '359 application's parent application (US Pat. App. Serial No. 15/984,309 (the "Parent '309 application")), which were all previously examined and rejected in the Office Action of 3/19/2020 issued by the Examiner in the Parent '309 application. As such, the dependent claims (2-5, 7-12, 14-18) of the '359 application are not discussed in detail in this submission. Rather, a table is provided below that correlates the dependent claims of the '359 application to the as-filed rejected claims of the Parent '309 application that include equivalent elements therein, and also to the associated prior art cited in the rejection of the same in the Office Action of 3/19/2020 issued by the Examiner.

Dependent claims from US Pat. App. Serial No. 17/503,359	Equivalent rejected claims as-filed from US Pat. App. Serial No. 15/984,309 (Parent)	Prior Art Reference from 3/19/2020 Office Action issued in the 15/984,309 application
Claim 2	Claims 1, 3	Llop '255 Publication / Groscurth '592 Publication (See, ' 309 Office Action ', pgs. 10-14)
Claim 3	Claim 5	Llop '255 Publication / Groscurth '592 Publication (See, ' 309 Office Action ', pg. 16)
Claim 4	Claim 6	Llop '255 Publication / Groscurth '592 Publication / Llop '881 Publication (See, ' 309 Office Action ', pgs. 21-23)
Claim 5	Claim 7	Llop '255 Publication / Groscurth '592 Publication (See, ' 309 Office Action ', pgs. 16-17)
Claim 7	Claim 14	Llop '255 Publication (See, ' 309 Office Action '

		pg. 6); Llop '778 Publication (See, ' 309 Office Action , pg. 9)
Claim 8	Claim 15	Llop '778 Publication (See, ' 309 Office Action , pg. 23)
Claim 9	Claim 16	Llop '778 Publication (See, ' 309 Office Action , pg. 23-24)
Claim 10	Claim 17	Llop '255 Publication (See, ' 309 Office Action , pg. 7)
Claim 11	Claim 18	Llop '255 Publication / Groscurth '811 Publication (See, ' 309 Office Action , pgs. 19-20)
Claim 12	Claim 19	Llop '255 Publication (See, ' 309 Office Action , pgs. 7-8)
Claim 14	Claims 1, 19	Llop '255 Publication / Groscurth '592 Publication (See, ' 309 Office Action , pgs. 7-8 and 10-13)
Claim 15	Claim 18	Llop '255 Publication / Groscurth '811 Publication (See, ' 309 Office Action , pgs. 19-20)
Claim 16	Claim 5	Llop '255 Publication / Groscurth '592 Publication (See, ' 309 Office Action , pg. 16)
Claim 17	Claim 6	Llop '255 Publication / Groscurth '592 Publication / Llop '881 Publication (See, ' 309 Office Action , pgs. 21-23)
Claim 18	Claim 1	Llop '255 Publication / Groscurth '592 Publication (See, ' 309 Office Action , pgs. 10-13)

U.S. Patent App. Serial No.: 17/503,359
U.S. Patent App. Pub. No.: US 2022/0031431 A1
Filed: October 18, 2021
Third-Party Preissuance Submission Under 37 CFR § 1.290

CONCLUSION

This submission is being made by a party who has no duty to disclose information with respect to the application under § 1.56 and is believed to comply with the requirements of 35 U.S.C. § 122(e) and 37 C.F.R. § 1.290.

This Submission is being filed less than six (6) months after the date on which the application was first published by the Office (02/03/2022), as of the date of the filing of this Submission, no Notice of Allowance has been mailed; and a first rejection under § 1.104 of any claim by the examiner has not yet been mailed. Accordingly, the present submission should be considered timely under 37 C.F.R. § 1.290(b).

The submission lists sixteen (16) documents, and this submission is the first and only submission under 35 U.S.C. § 122(e) submitted in the application by the submitting party or a party in privity with the submitting party. Accordingly, the fee as set forth in § 1.17(0) is submitted herewith. Please charge any required fee (or credit overpayments) to the Deposit Account of the undersigned, Account No. 503976.

Respectfully submitted,

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CERTIFICATION OF TRANSMISSION

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/Lisa Turan/

ND: 4883-7281-4099, v. 1

Electronic Patent Application Fee Transmittal

Application Number:	17503359			
Filing Date:	18-Oct-2021			
Title of Invention:	Fixation Base and Guides for Dental Prosthesis Installation			
First Named Inventor/Applicant Name:	Jason Watson			
Filer:	Ryan K Simmons/Lisa Turan			
Attorney Docket Number:	J.WAT-003			
Filed as Small Entity				
Filing Fees for				
Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Basic Filing:				
DOCUMENT FEE FOR THIRD-PARTY SUBMISSIONS	2818	1	90	90
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Extension-of-Time:				
Miscellaneous:				
Total in USD (\$)				90

Electronic Acknowledgement Receipt

EFS ID:	45199454
Application Number:	17503359
International Application Number:	
Confirmation Number:	4207
Title of Invention:	Fixation Base and Guides for Dental Prosthesis Installation
First Named Inventor/Applicant Name:	Jason Watson
Customer Number:	59259
Filer:	Ryan K Simmons/Lisa Turan
Filer Authorized By:	Ryan K Simmons
Attorney Docket Number:	J.WAT-003
Receipt Date:	10-MAR-2022
Filing Date:	18-OCT-2021
Time Stamp:	17:17:47
Application Type:	

Payment information:

Submitted with Payment	yes
Payment Type	CARD
Payment was successfully received in RAM	\$90
RAM confirmation Number	E202230H17441373
Deposit Account	
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The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows:

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Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Concise Description of Relevance	Concise-description-generated.pdf	44262	no	7
			e255a1edd0dda752e01cf3ced2d3cb5e457bf994		
Warnings:					
Information:					
2	Third-Party Submission Under 37 CFR 1.290	Third-party-preissuance-submission.pdf	65828	no	4
			a8d2de3cbf987a9410d7103fabc6c40f63101a8b		
Warnings:					
Information:					
3	Request for Notification of Non-compliant Third-Party Submission	Third-party-notification-request.pdf	24497	no	1
			cb72b46e57a78739bf0ca8694d39c1277c1addc9		
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4	Concise Description of Relevance	3rdParty-Submission_181526-00017.pdf	185054	no	3
			2631ed3ec84997ee65fb9ace1ca275333b7fd78c		
Warnings:					
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5	Concise Description of Relevance	ConciseDescription_181526-00017.pdf	92084	no	20
			bd6686708faa141361bb6653c1ae8bd30dc74e5c		
Warnings:					
Information:					
6	Non Patent Literature	Alzoubi-June2016-Article.pdf	2075393	no	36
			519d41db2bd185e14e67a8fb82180b6145152396		
Warnings:					
Information:					

7	Non Patent Literature	Harris-February2017-Article.pdf	3268312	no	8
			8fa3e7d5743d8a1a30cd98c640805cbe3ded8585		
Warnings:					
Information:					
8	Non Patent Literature	Pikos-March2014-YouTubeVideo_20-23-24-25-27-28second-marks.pdf	1517139	no	16
			f0acc6d60693577a845df1210beb4829cbb5dfe4		
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9	Non Patent Literature	Scherer-October2015-YouTubeVideo_4-50to4-52and5-36to5-37minutemarks.pdf	1255555	no	14
			2927c9bb33b14f989d5bbfc6e86dd650b4347d7e		
Warnings:					
Information:					
10	Non Patent Literature	Ibur-March2016-SurgicalGuideOptions.pdf	211289	no	3
			1f7f18f2829d5d24b0a92097b39b81453e0a7437		
Warnings:					
Information:					
11	Non Patent Literature	309-OfficeAction_3-19-2020.pdf	1704433	no	26
			de2ca026ea2295698a7bf8c2aae7423bd6ac5839		
Warnings:					
Information:					
12	Fee Worksheet (SB06)	fee-info.pdf	37720	no	2
			5b93bee83b4f2b3340ae9aaade55c3c0ccc1a108		
Warnings:					
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Total Files Size (in bytes):			10481566		

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New Applications Under 35 U.S.C. 111

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

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

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

New International Application Filed with the USPTO as a Receiving Office

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



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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
17/503,359	10/18/2021	Jason Watson	J.WAT-003	4207
59259	7590	03/22/2022	EXAMINER	
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3500 WEST OLIVE AVE.				
SUITE 300				
BURBANK, CA 91505				
			ART UNIT	PAPER NUMBER
			OPAP	
			NOTIFICATION DATE	DELIVERY MODE
			03/22/2022	ELECTRONIC

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

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APPLICATION NO./ CONTROL NO.	FILING DATE	FIRST NAMED INVENTOR/ PATENT IN REEXAMINATION	ATTORNEY DOCKET NO.
17/503,359	10/18/2021	Watson, Jason	J.WAT-003

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		3771	20220311

DATE MAILED: 11 March 2022

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

Commissioner for Patents

A third-party submission under 37 CFR 1.290 has been filed on 03/10/2022, and is being entered in the above-identified application. Please allow a few days for the submission to be visible in the Patent Application Information Retrieval (PAIR) system. Note that the submission will be identified using the "Information Disclosure Statement Filed" Document Description. This Document Description is being used for the internal purposes only. The Office does not consider the submission to be an Information Disclosure Statement under 37 CFR 1.97 and 1.98.

/GEORGE J ULSH/
Primary Examiner, Art Unit 3771



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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
17/503,359	10/18/2021	Jason Watson	J.WAT-003	4207
59259	7590	02/09/2023	EXAMINER	
ITALIA IP 3500 WEST OLIVE AVE. SUITE 300 BURBANK, CA 91505			APONTE, MIRAYDA ARLENE	
			ART UNIT	PAPER NUMBER
			3772	
			NOTIFICATION DATE	DELIVERY MODE
			02/09/2023	ELECTRONIC

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

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

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

ITALIA@ITALIAIP.COM
jitalia@hotmail.com
pto@thepatentoffice.com

Office Action Summary

Application No.

17/503,359

Applicant(s)

Watson, Jason

Examiner

MIRAYDA A APONTE

Art Unit

3772

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 11 February 2022.

☐ 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) 1-18 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) 1-18 is/are rejected.

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

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

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

Application Papers

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

11) ☒ The drawing(s) filed on 15 October 2021 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)

3) ☐ Interview Summary (PTO-413)

Paper No(s)/Mail Date ____.

2) ☒ Information Disclosure Statement(s) (PTO/SB/08a and/or PTO/SB/08b)

4) ☐ Other: ____.

Paper No(s)/Mail Date ____.

DETAILED ACTION

Notice of Pre-AIA or AIA Status

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

Drawings

2. The drawings are objected to as failing to comply with 37 CFR 1.84(p)(5) because they include the following reference character(s) not mentioned in the description: element 12 in Fig. 8.

Corrected drawing sheets in compliance with 37 CFR 1.121(d), or amendment to the specification to add the reference character(s) in the description in compliance with 37 CFR 1.121(b) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Claim Rejections - 35 USC § 112

3. 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.

4. **Claim 9** 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.

5. **Claim 9** recites the limitation "guide apparatus " in line 6. There is insufficient antecedent basis for this limitation in the claim.

6. **Regarding claim 9**, the use of the term "guide apparatus" in line 6 is confusing. It is not understood if said term refers to the dental guide mentioned in claim 6, or if it is another apparatus claimed. For examination purposes, the recitation will be treated as the dental guide mentioned in claim 6.

Claim Rejections - 35 USC § 102

7. 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.

8. **Claims 1-3, 5-16 and 18 are rejected under 35 U.S.C. 102(a)(1) as being anticipated by Llop (US 20170252126 A1).**

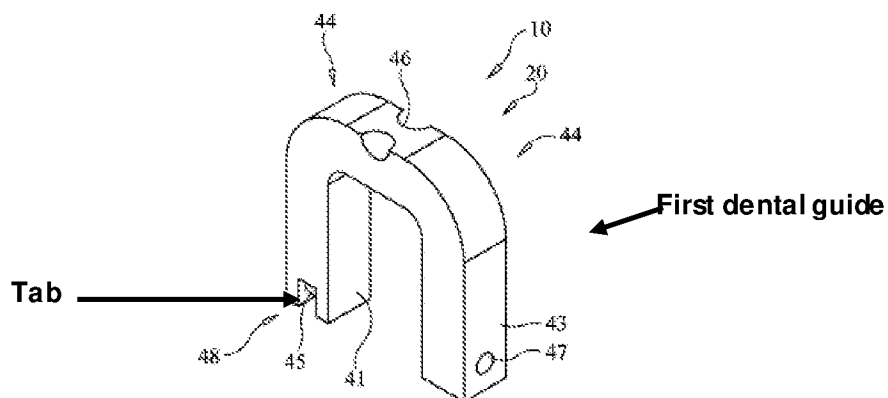


FIG. 3

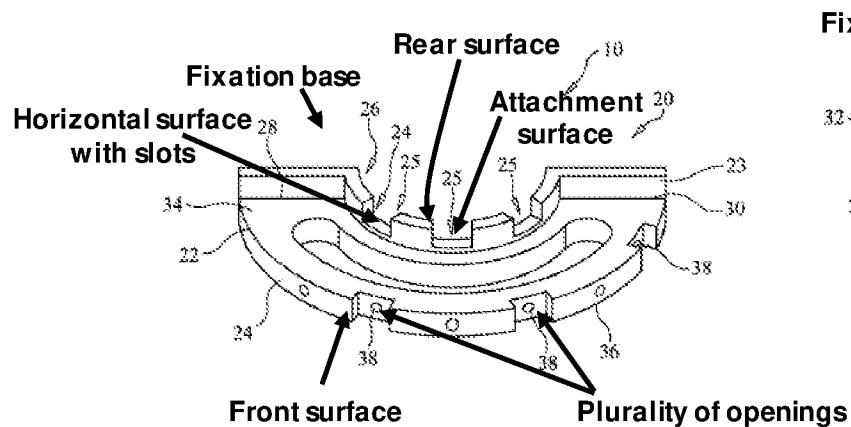


FIG. 4

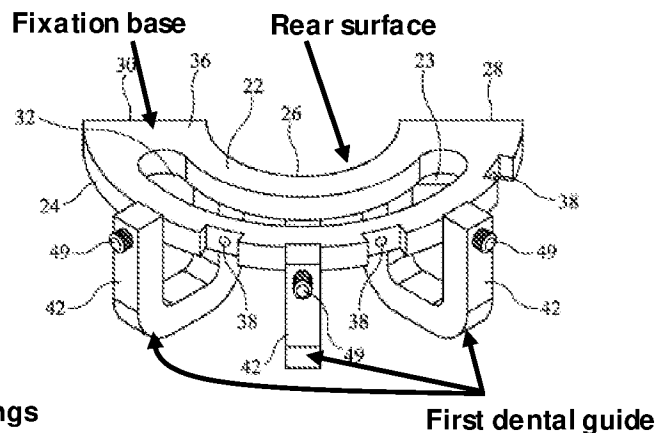


FIG. 5

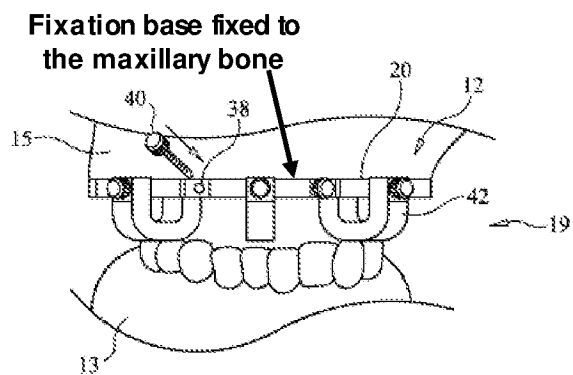


FIG. 12

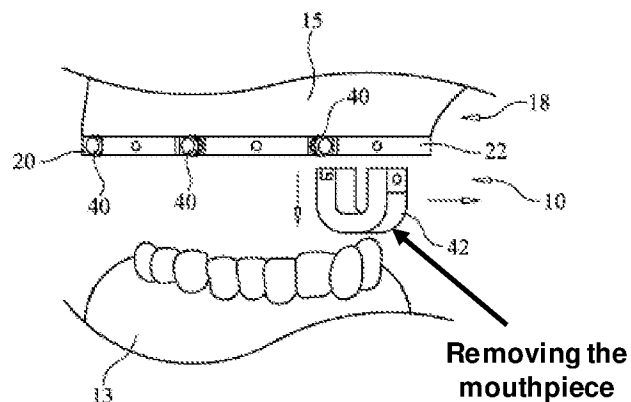


FIG. 14

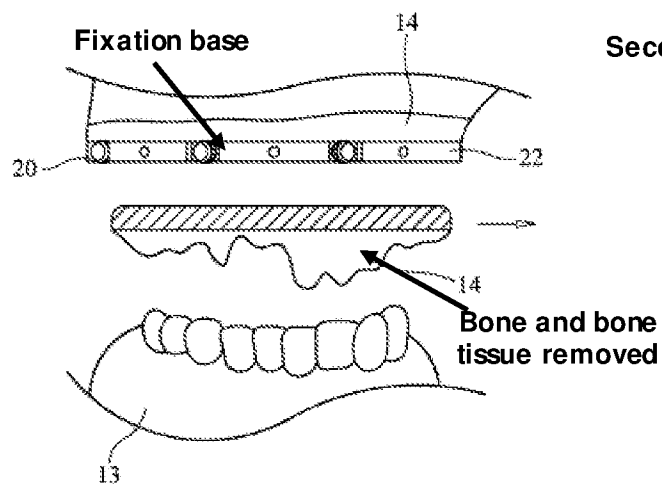


FIG. 15

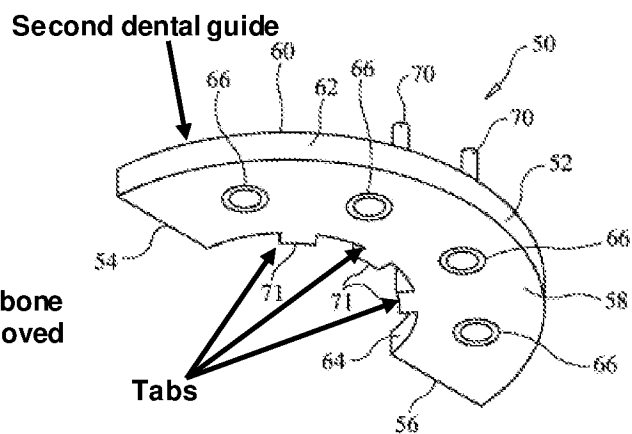


FIG. 16

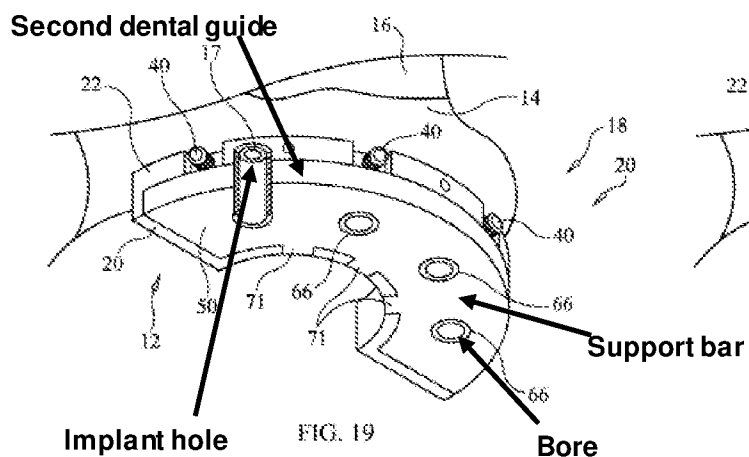


FIG. 19

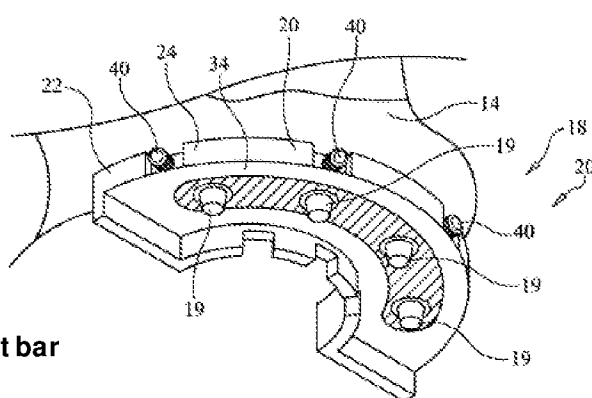


FIG. 21

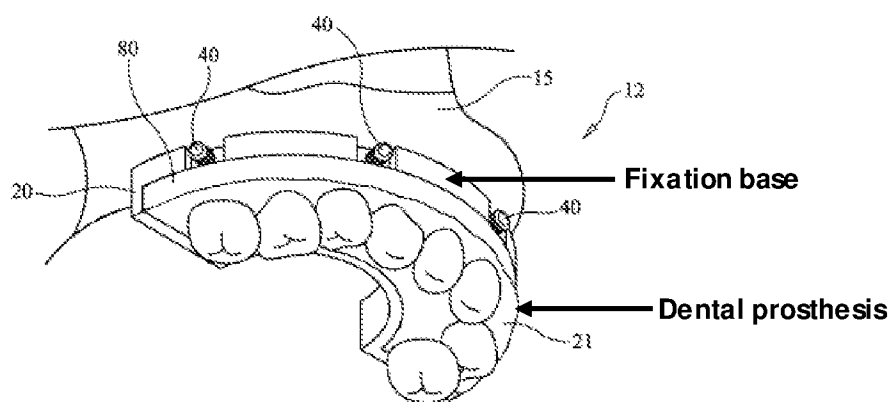
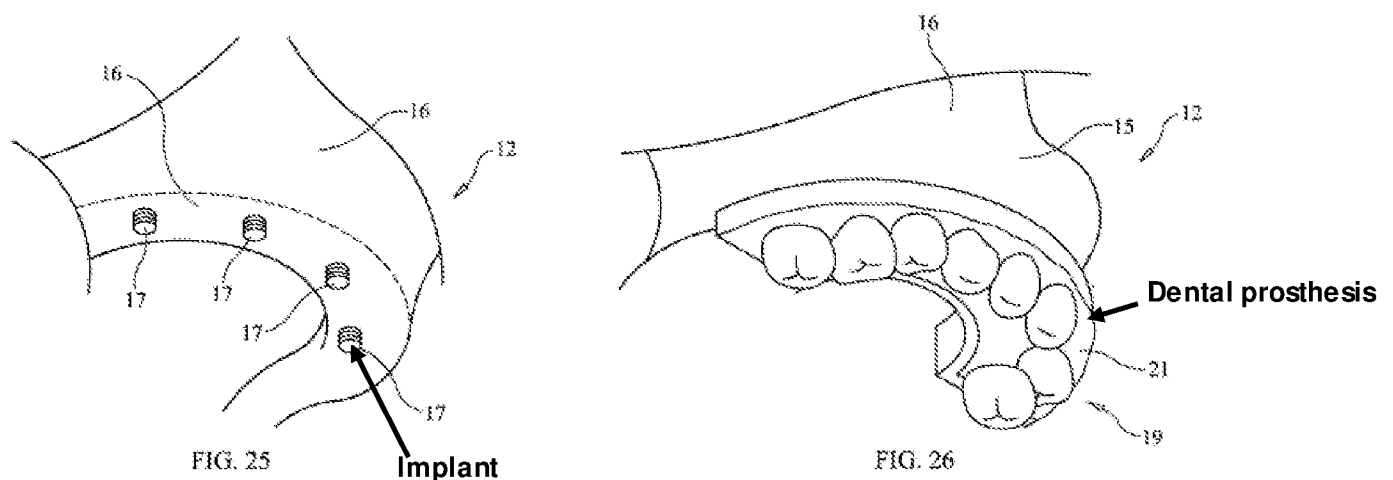


FIG. 23



9. **Regarding claim 1**, Llop discloses a method of installing a multi-tooth dental prosthesis in a maxillary or mandibular position in a mouth of a patient, the method comprising:

providing a dental prosthesis (21) for the maxillary or mandibular positioning in the patient's mouth (see annotated Fig. 26 above),

utilizing a fixation base (20) to serve as a mounting jig for a plurality of other dental guides (see annotated Fig. 4, 5 and 19 above) including a first dental guide (42) (see annotated Fig. 3, 5 above); and a second dental guide (50) (see annotated Fig. 16 above), wherein the fixation base (20) includes a generally arcuate shape (see annotated fig. 4 above) with a front surface that has a plurality of openings (38) through which fasteners (40) can be passed (see annotated Fig. 4 and 12 above), a rear surface, and a horizontal surface (see annotated Fig. 4 and 5 above);

utilizing the first dental guide (42), wherein the first dental guide (42) is a mouthpiece that attaches to the fixation base (20) and is used to assure appropriate location to attach the fixation base (20) to the maxillary or mandibular bone tissue of the patient (see annotated Fig. 12 above and [0098-0099]);

installing the fixation base (20) to the maxillary or mandibular bone tissue of the patient (see installed fixation base 20 on the maxillary bone tissue in Fig. 12 above and [0097]);

removing the mouthpiece (42) from the installed fixation base (20) (see Fig. 14 above and [0060]);

removing obstructive mouth tissues from the work site, to expose an underside of the maxillary or mandibular bone tissue (see annotated Fig. 15 and [0096]);

recontouring the bone tissue (see annotated Fig. 15 and [0096]);

utilizing the second dental guide (50), wherein the second dental guide (50) is a drill guide that attaches to the installed fixation base to assure appropriate location and orientation of holes to be drilled for the subsequently installed implants (17) (see annotated Fig. 16 and 19 above and [0122 and 0125] – where the combination of implant with abutment is element 17);

drilling the implant holes in the bone tissue using the drill guide (50) attached to the fixation base (20) (see annotated Fig. 19 above);

installing implants (17) in the implant holes; installing the abutments to the implants (17) (see annotated Fig. 25 above and [0125] - implant with abutment is element 17); and,

installing the dental prosthesis (21) to the abutments (see annotated Fig. 26 above).

10. **Regarding claim 2**, Llop discloses that wherein installing the fixation base (20) to maxillary bone tissue of the patient further includes

driving fasteners (40) through the fixation base (20) into the bone tissue (14) to secure the fixation base (20) to the maxillary bone (see annotated Fig. 12 above and [0097]).

11. **Regarding claim 3**, Llop discloses that wherein the step of recontouring the bone tissue includes using a preformed surface on the installed fixation base (20) to assure proper recontouring of the bone tissue (140 (see annotated Fig. 15 above, where preformed surface is flat on the opposed surface to the contacting area to the bone).

12. **Regarding claim 5**, Llop discloses that wherein installing the abutments includes adjusting the abutments to appropriate angular orientations relative to a central axis of associated implants using pre-established indicators on the abutment guide base (see tissue spacing gasket 80 in Fig. 20, 22 and [0125] – where the third dental guide/abutment guide base is a tissue spacing gasket 80 used in combination with the fixation base 20 to provide the spacing for the gum during the installation of the implant and abutment, in this way assuring the appropriate vertical location and angular orientation of the installed abutment with respect to the bone by taking in consideration the thickness of the gum; where the pre-established indicator in the abutment guide base is the orientation of the opening to where the abutment will be installed).

13. **Regarding claim 6**, Llop discloses an apparatus for installing a dental prosthesis to maxillary or mandibular jaw bone of a patient, the apparatus including:

a fixation base (20) for providing an attachment surface for a dental guide (42) used during a dental prosthesis (21) installation procedure (see annotated Fig. 3 and 4 above), the fixation base (20) further including a generally arcuate base member with a front surface that includes a plurality of openings (38) through which fasteners (40) can

be passed, a rear surface, and a horizontal surface (see annotated Fig. 4, 5 and 12 above).

14. **Regarding claim 7**, Llop discloses that wherein the attachment surface of the fixation base (20) includes:

a plurality of slots (25) in said horizontal surface of the fixation base (20) for accepting tabs (45) located on the dental guide (42); and

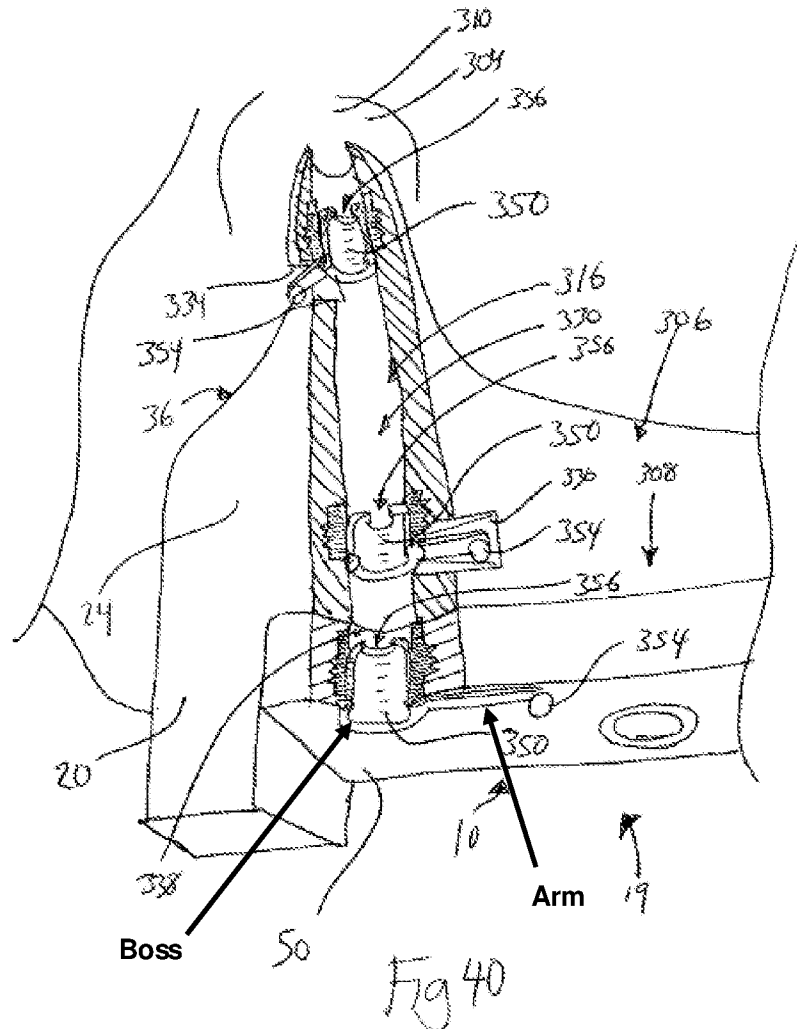
bores and bosses (38) extending radially from the front surface of said fixation base (20) (see annotated Fig. 3, 4 and 5 above).

15. **Regarding claim 8**, Llop discloses further including a first dental guide (42), wherein the first dental guide (42) is a mouthpiece configured and dimensioned to surround teeth of the patient (due to its U-shape it is capable of surround a tooth or teeth when installed in the mouth of the patient) and to releasably attach to the fixation base (20) and to be removed after the fixation base (20) is affixed to the maxillary or mandibular bone structure of a patient (see annotated Fig. 12 and 14 above).

16. **Regarding claim 9**, Llop discloses that the attachment surface of the fixation base (20) includes a plurality of slots (25) in the horizontal surface of the fixation base (20), wherein the dental guide (42) includes a plurality of tabs (45) extending toward and fitting closely with the slots (25) of the fixation base (20), whereby the dental guide (42) engages the fixation base (20) by interfit between the slots (25) of the fixation base (20) and the tabs (45) of the guide apparatus (42) (see annotated Fig. 3, 4 and 5 above).

17. **Regarding claim 10**, Llop discloses further including a second dental guide (50) attachable to the fixation base (20), wherein the second dental guide (50) is a drill guide for guiding the drilling of holes for implants (17), wherein the drill guide (50) includes a

plurality of generally vertical bores (66) corresponding in location to and in axial registry with intended implant sites (see annotated Fig. 19 above).



18. **Regarding claim 11**, Llop discloses that the drill guide (50) is made from a material sufficiently strong enough to withstand breakage during a prosthesis installation procedure (see its used from positioning, cutting bone and implant installation in the mouth in Fig. 12, 14, 15, 19 and 21) and includes a support bar (see annotated Fig. 19 above), a plurality of bosses (322) with one boss for each one of the vertical bores (66), the bosses (322) located rearwardly of the support bar and attached to the support bar by arms such that voids exist between the bosses and the support bar, the voids enabling

direct observation of patient anatomy and insertion of irrigation and evacuation apparatus (due to the arm is inside a void in the fixation base 20, it is capable irrigate and evacuate liquid from the area) (see [0115] and [0122]),

19. **Regarding claim 12**, Llop discloses further including a third dental guide (80) attachable to the fixation base (20), wherein the third dental guide (80) is an abutment guide oriented to receive abutments and guide the abutments for placement against the implants (see tissue spacing gasket 80 in Fig. 20, 22 and [0125] – where the third dental guide is a tissue spacing gasket 80 used in combination with the fixation base 20 to provide the spacing for the gum during the installation of the implant and abutment, in this way assuring the appropriate vertical location of the installed abutment with respect to the bone by taking in consideration the thickness of the gum).

20. **Regarding claim 13**, Llop discloses a method of installing a fixation base (20) in a maxillary or mandibular position in a mouth of a patient, the method including:

utilizing a fixation base (20) for providing an attachment surface for a dental guide (42) used during a dental prosthesis (21) installation procedure, wherein the fixation base (20) includes a generally arcuate shape (see annotated Fig. 4 above) with a front surface that has a plurality of openings (38) through which fasteners (40) can be passed through, a rear surface, and a horizontal surface (see annotated Fig. 4 above),

utilizing a mouthpiece (42),

attaching the mouthpiece (42) to the fixation base (20) (see annotated Fig. 5 above);

installing the mouthpiece (42) onto at least some surfaces of the maxillary or mandibular portion of the mouth of the patient to assist in positioning the fixation base

(20) appropriately prior to installing the fixation base to maxillary or mandibular bone tissue of the patient (see annotated Fig. 12 above and [0098-0099]);

installing the fixation base (20) to the maxillary or mandibular portions of the patient using fasteners (40) through said plurality of openings (38) in said front surface of the fixation base (20) (see annotated Fig. 12 above); and,

removing the mouthpiece from the fixation base (20) (see Fig. 25 above).

21. **Regarding claim 14**, Llop discloses further including the step of:

utilizing a third dental guide (80), wherein the third dental guide (80) is an abutment guide base that attaches to the installed fixation base (20) to assure appropriate location for the installed abutments (see tissue spacing gasket 80 in Fig. 20, 22 and [0125] – where the third dental guide is a tissue spacing gasket 80 used in combination with the fixation base 20 to provide the spacing for the gum during the installation of the implant and abutment, in this way assuring the appropriate vertical location of the installed abutment with respect to the bone by taking in consideration the thickness of the gum).

22. **Regarding claim 15**, Llop discloses that the fixation base is made from a material that is sufficiently strong enough to withstand breakage during a prosthesis installation procedure (see its used from positioning, cutting bone and implant installation in the mouth in Fig. 12, 14, 15, 19 and 21).

23. **Regarding claim 16**, Llop discloses that the fixation base (20) further includes a surface to assist in recontouring of bone tissue (14) (see Fig. 15 – where the lower surface of the fixation base is used as a guide to cut the unwanted bone 14).

24. **Regarding claim 18**, Llop discloses a dental prosthesis (21), wherein the dental prosthesis (21) attaches to the installed fixation base (20) (see annotated Fig. 23 above).

Claim Rejections - 35 USC § 103

25. 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.

26. **Claims 4 and 17 are rejected under 35 U.S.C. 103 as being unpatentable over Llop (US 20170252126 A1) (aka Llop'126) as applied to claim 1 and 6 respectively above, and further in view of Llop (US 20150010881 A1) (aka Llop'881).**

27. **Regarding claim 4**, Llop'126 discloses the claimed invention substantially as claimed, as set forth above for claim 1.

28. However, Llop'126 does not disclose that the step of recontouring the bone tissue includes utilizing a fourth guide apparatus, wherein the fourth guide apparatus is a bone reduction guide that attaches to the installed fixation base to assure proper recontouring of the bone tissue

29. **Regarding claim 17**, Llop'126 discloses the claimed invention substantially as claimed, as set forth above for claim 6.

30. However, Llop'126 does not disclose that further includes a fourth guide apparatus, wherein the fourth guide apparatus is a bone reduction guide that attaches to the installed fixation base to assist in recontouring of bone tissue.

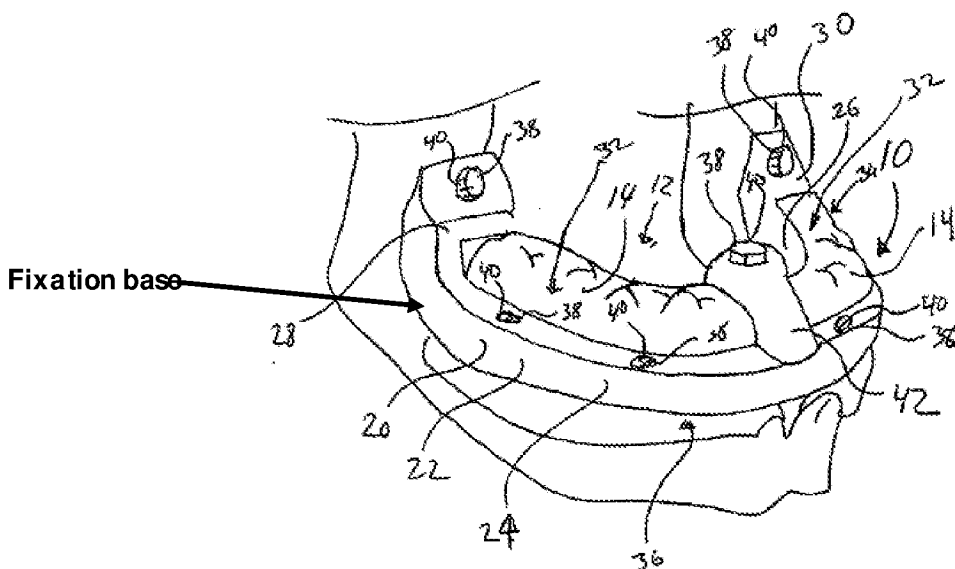


Fig. 1

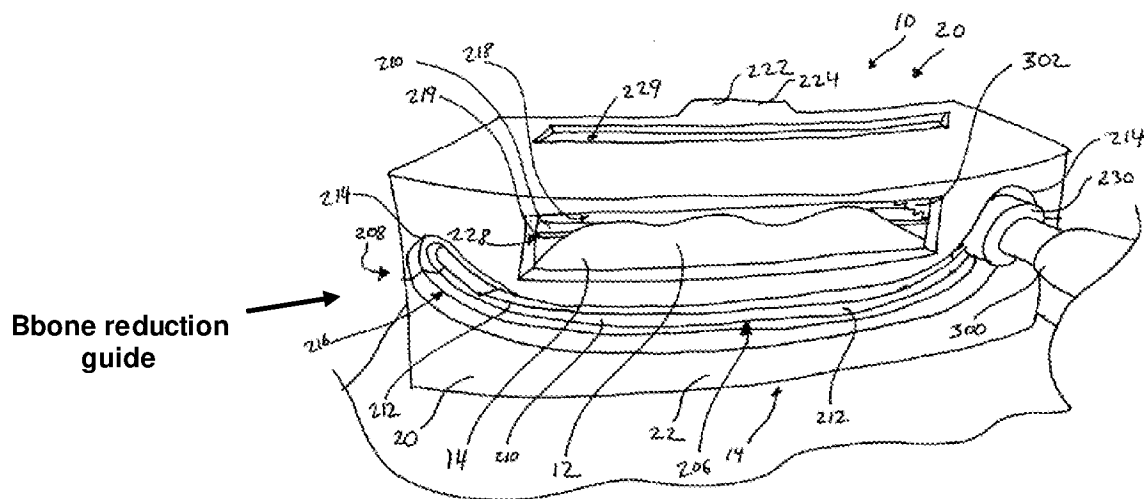


Fig. 5D

31. Llop'881 teaches a fixation base (22) (see annotated Fig. 1 above) attached to the jaw bone, and a fourth guide apparatus (200), where the fourth guide apparatus is a bone reduction guide/cutting containment guard (200) (see annotated Fig. 5D above and [0054]) attached to the fixation base (22). Where the bone reduction guide (200) includes a cutting channel (206) at the front surface of the fourth guide apparatus for the insertion of a cutting tool (300) for recontouring the exposed bone tissue from the surgical site, that

provides greater precision by limiting in the vertical direction the ability of the cutting tool (300) to jump off the body (see [0019]).

32. 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 apparatus and the method of use of the apparatus of Llop'126, with the bone reduction guide with the corresponding engagement means with the fixation base, and the method use of the bone reduction guide of Llop'881, in order to limit the movement of the cutting tool to the shape of the cutting channel, in this way it provides more precision during the recontouring action of the bone tissue.

Conclusion

33. Any inquiry concerning this communication or earlier communications from the examiner should be directed to MIRAYDA ARLENE APONTE whose telephone number is (571)270-1933. The examiner can normally be reached M-F 8-5.

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

35. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Cris Rodriguez can be reached on 571-272-4964. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

36. Information regarding the status of published or unpublished applications may be obtained from Patent Center. Unpublished application information in Patent Center is

available to registered users. To file and manage patent submissions in Patent Center, visit: <https://patentcenter.uspto.gov>. Visit <https://www.uspto.gov/patents/apply/patent-center> for more information about Patent Center and <https://www.uspto.gov/patents/docx> for information about filing in DOCX format. For additional questions, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/MIRAYDA A APONTE/
Examiner, Art Unit 3772

/RALPH A LEWIS/
Primary Examiner, Art Unit 3772

<i>Notice of References Cited</i>	Application/Control No. 17/503,359		Applicant(s)/Patent Under Reexamination Watson, Jason	
	Examiner MIRAYDA A APONTE		Art Unit 3772	Page 1 of 1

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	CPC Classification	US Classification
*	A	US-20170252126-A1	09-2017	Llop; Daniel R.	A61C8/0034	1/1
*	B	US-20150010881-A1	01-2015	Llop; Daniel R.	A61C8/0089	433/215
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	I					
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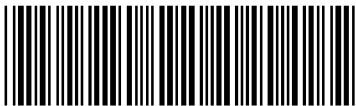
FOREIGN PATENT DOCUMENTS

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

NON-PATENT DOCUMENTS

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

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

Search Notes 	Application/Control No. 17/503,359	Applicant(s)/Patent Under Reexamination Watson, Jason
	Examiner MIRAYDA A APONTE	Art Unit 3772

CPC - Searched*		
Symbol	Date	Examiner
A61C8/0053,0048,0068,0087,,0095,0051,,0074,0089,005,0048,,0093	02/01/2023	MA
A61C1/084,082,08	02/01/2023	MA
A61C3/02	02/01/2023	MA
A61C13/0004,0006,0025,0003,0001,00	02/01/2023	MA

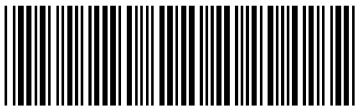
CPC Combination Sets - Searched*		
Symbol	Date	Examiner

US Classification - Searched*			
Class	Subclass	Date	Examiner
433	173-176,201.1	02/01/2023	MA

* 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
PE2ESearch	02/01/2023	MA
Word search on (guide jig) ADJ (surgical drill abutment teeth tooth) AND implant AND abutment, (Ilop).inv. AND dental AND guide, (Ilop).inv. AND dental AND guide AND cutting ADJ bone, dental AND guide AND cutting ADJ bone, shave ADJ bone, cutting ADJ bone, (dentex).as.	02/01/2023	MA

/MIRAYDA A APONTE/ Examiner, Art Unit 3772	
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<i>Search Notes</i> 	Application/Control No. 17/503,359	Applicant(s)/Patent Under Reexamination Watson, Jason
	Examiner MIRAYDA A APONTE	Art Unit 3772

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

/MIRAYDA A APONTE/ Examiner, Art Unit 3772	
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PE2E SEARCH - Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	British Equivalents	Time Stamp
L1	70189	(A61C8/0053 OR A61C1/084 OR A61C8/0048 OR A61C8/0068 OR A61C8/0087 OR A61C8/0095 OR A61C13/225 OR A61C3/02 OR A61C8/0051 OR A61C8/0074 OR A61C8/0089 OR A61C13/0004 OR A61C13/0006 OR A61C13/0025 OR A61C8/005 OR A61C8/0048 OR A61C1/082 OR A61C1/08 OR A61C8/005 OR A61C8/0093 OR A61C13/0003 OR A61C13/0001 OR A61C13/00).cpc. OR (433/173-176,201.1).ccls.	(US-PGPUB; USPAT; USOCR; FIT (CN, FR, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2023/01/31 08:12 AM
L26	17	(llop).inv. and dental and metal\$3	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2020/03/10 08:37 AM
L69	901	L1 AND (guide jig) ADJ (surgical drill abutment teeth tooth) AND implant AND abutment	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, CA, CH, CN, DD, DE, EA, EP, ES, FR, GB, JP, KR, OA, RU, SU, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2023/01/31 08:19 AM
L71	114	(llop).inv. AND dental AND guide	(US-PGPUB; USPAT; USOCR; FIT (CN, FR, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2023/01/31 01:32 PM
L72	10	(llop).inv. AND dental AND guide AND cutting ADJ bone	(US-PGPUB; USPAT; USOCR; FIT (CN, FR, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2023/01/31 01:40 PM
L73	719	dental AND guide AND cutting ADJ bone	(US-PGPUB; USPAT; USOCR; FIT (CN, FR, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2023/01/31 01:41 PM
L77	0	L76 AND shave ADJ	(US-PGPUB; USPAT;	OR	ON	ON	2023/01/31

L78	14	bone	USOCR; FIT (CN, FR, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	01:46 PM
		L76 AND cutting ADJ bone	(US-PGPUB; USPAT; USOCR; FIT (CN, FR, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)				2023/01/31 01:46 PM
L79	88	(dentex).as.	(US-PGPUB; USPAT; USOCR; FIT (CN, FR, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2023/01/31 02:00 PM

PE2E SEARCH - Search History (Interference)

There are no Interference searches to show.

Bibliographic Data

Application No: 17/503,359

Foreign Priority claimed: ☐ Yes ☒ No

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

Verified and Acknowledged: /MIRAYDA A APONTE/

Examiner's Signature

Initials

Title: Fixation Base and Guides for Dental Prosthesis Installation

FILING or 371(c) DATE	CLASS	GROUP ART UNIT	ATTORNEY DOCKET NO.
10/18/2021	433	3772	J.WAT-003
RULE			

APPLICANTS

INVENTORS

Jason Watson, La Canada, CA, UNITED STATES

CONTINUING DATA

This application is a CON of 15984309 05/18/2018 PAT 11173016

15984309 has PRO of 62508377 05/18/2017

FOREIGN APPLICATIONS

IF REQUIRED, FOREIGN LICENSE GRANTED**

10/26/2021

** SMALL ENTITY **

STATE OR COUNTRY

UNITED STATES

ADDRESS

ITALIA IP
3500 WEST OLIVE AVE.
SUITE 300
BURBANK, CA 91505
UNITED STATES

FILING FEE RECEIVED

\$830

THIRD-PARTY SUBMISSION UNDER 37 CFR 1.290	Application Number	17503359

U.S. PATENTS				
Cite No	Patent Number	Kind Code ¹	Issue Date (YYYY-MM-DD)	First Named Inventor

U.S. PATENT APPLICATION PUBLICATIONS				
Cite No	Publication Number	Kind Code ¹	Publication Date (YYYY-MM-DD)	First Named Inventor

FOREIGN PATENTS AND PUBLISHED FOREIGN PATENT APPLICATIONS						
Cite No	Foreign Document Number ³	Country Code ²	Kind Code ¹	Publication Date (YYYY-MM-DD)	Applicant, Patentee or First Named Inventor	T ⁵
						☐

NON-PATENT PUBLICATIONS (e.g., journal article, Office action)			
Cite No	Author (if any), title of the publication, page(s) being submitted, publication date, publisher (where available), place of publication (where available).	T ⁵	E ⁶

THIRD-PARTY SUBMISSION UNDER 37 CFR 1.290	Application Number	17503359

1	ALZOUBI et al., Bone Reduction to Facilitate Immediated Implant Placement and Loading Using CAD/CAM Surgical Guides for Patients with Terminal Dentition, Journal of Oral Implantology, June 2016	☐	☐
2	SCHERER et al., All-on-4® nSequence® Implant Surgical Technique Using Zest Chairside® Attachment Processing Material, nSequence, https://www.youtube.com/watch?v=VOWRdFpfnGI , October 2015	☐	☐
3	IBUR BIOSYSTEMS, Surgical Guide Options, http://www.iburbiosystems.com/wp-content/uploads/2014/12/Surgical-Guide-Options.pdf , March 2016	☐	☐

THIRD-PARTY SUBMISSION UNDER 37 CFR 1.290	Application Number	17503359

4	HARRIS et al., Creation of a 3-Dimensional Virtual Dental Patient for Computer-Guided Surgery and CAD-CAM Interim Complete Removable and Fixed Dental Prosthesis: A Clinical Report, The Journal of Prosthetic Dentistry, February 2017, Volume 117, Issue 2, pgs. 197-204	☐	☐
5	PIKOS, Full Arch Guided Implant Surgery - Same Day Teeth Surgical Instruction Course All on 4, https://www.youtube.com/watch?v=e-MD8Q8uJkc , Pikos Institute, March 2014	☐	☐
6	Office Action, U.S. Patent App. Serial No. 15/984,309, March 19, 2020	☐	☐

STATEMENTS
<p>The party making the submission is not an individual who has a duty to disclose information with respect to the above-identified application under 37 CFR 1.56.</p> <p>This submission complies with the requirements of 35 U.S.C. 122(e) and 37 CFR 1.290.</p>

THIRD-PARTY SUBMISSION UNDER 37 CFR 1.290	Application Number	17503359

☒ The fee set forth in 37 CFR 1.290(f) has been submitted herewith.			
☐ The fee set forth in 37 CFR 1.290(f) is not required because this submission lists three or fewer total items and, to the knowledge of the person signing the statement after making reasonable inquiry, this submission is the first and the only submission under 35 U.S.C 122(e) filed in the above-identified application by the party making the submission or by a party in privity with the party.			
☐ This resubmission is being made responsive to a notification of non-compliance issued for an earlier filed third-party submission. The corrections in this resubmission are limited to addressing the non-compliance. As such, the party making this resubmission: (1) requests that the Office apply the previously-paid fee set forth in 37 CFR 1.290(f), or (2) states that no fee is required to accompany this resubmission as the undersigned is again making the fee exemption statement set forth in 37 CFR 1.290(g).			
Signature	/Ryan Simmons/		
Name/Print	Ryan K. Simmons	Registration Number (if applicable)	45848
Examiner Signature	/MIRAYDA A APONTE/	Date Considered	02/01/2023
<p>*EXAMINER: Signature indicates all documents listed above have been considered, except for citations through which a line is drawn. Draw line through citation if not considered. Include a copy of this form with next communication to applicant. 1. If known, enter kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16. See MPEP 901.04(a). 2. Enter the country or patent office that issued the document, by two-letter code under WIPO standard ST.3. See MPEP 1851. 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. If known, enter the kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16. See MPEP 901.04(a). 5. Check mark indicates translation attached. 6. Check mark indicates evidence of publication attached.</p>			



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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
17/503,359	10/18/2021	Jason Watson	J.WAT-003	4207
59259	7590	03/28/2023		
ITALIA IP 3500 WEST OLIVE AVE. SUITE 300 BURBANK, CA 91505			EXAMINER APONTE, MIRAYDA ARLENE	
			ART UNIT	PAPER NUMBER
			3772	
			NOTIFICATION DATE	DELIVERY MODE
			03/28/2023	ELECTRONIC

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

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

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

ITALIA@ITALIAIP.COM
jitalia@hotmail.com
pto@thepatentoffice.com

<i>Applicant-Initiated Interview Summary</i>	Application No. 17/503,359	Applicant(s) Watson, Jason		
	Examiner MIRAYDA A APONTE	Art Unit 3772	AIA (First Inventor to File) Status Yes	Page 1 of 1

All Participants (applicant, applicants representative, PTO personnel)	Title	Type
MIRAYDA A APONTE	Examiner	Telephonic
JAMES ITALIA	Attorney of Record	
JASON WATSON	Inventor	

Date of Interview: 21 March 2023

Issues Discussed:

Proposed Amendment(s)

The proposed amendments on the independent claims were discussed in detail by the attorney and inventor. Based on the proposed new language, the Office understands that the claimed method and apparatus are not found in the prior art of Llop used in the last Office action. Therefore, as soon as the amendments are received, a further search will be done based on the new interpretation of the claims. No final agreement was reached at this time.

☒ Attachment

/MIRAYDA A APONTE/ Examiner, Art Unit 3772	
<p>Applicant is reminded that a complete written statement as to the substance of the interview must be made of record in the application file. It is the applicants responsibility to provide the written statement, unless the interview was initiated by the Examiner and the Examiner has indicated that a written summary will be provided. See MPEP 713.04</p> <p>Please further see: MPEP 713.04 Title 37 Code of Federal Regulations (CFR) § 1.133 Interviews, paragraph (b) 37 CFR § 1.2 Business to be transacted in writing</p>	

Applicant recordation instructions: The formal written reply to the last Office action must include the substance of the interview. (See MPEP section 713.04). If a reply to the last Office action has already been filed, applicant is given a non-extendable period of the longer of one month or thirty days from this interview date, or the mailing date of this interview summary form, whichever is later, to file a statement of the substance of the interview.

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

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re: Patent Application of:
Jason Watson

Serial No. 17/503,359

Confirmation No. 4207

Filed: October 18, 2021

For: FIXATION BASE AND GUIDES FOR
DENTAL PROSTHESIS
INSTALLATION

Group Art Unit: 3772

Examiner: Aponte, Mirayda Arlene

Burbank, California
March 15, 2023

PROPOSED AMENDMENT

Examiner Aponte,

Thank you for agreeing to participate in a telephonic interview on Tuesday, March 21, 2023. The inventor Jason Watson and will also be on the call.

This is a proposed amendment for your consideration. The proposed amendment adds a limitation to each of the pending independent claims. Namely, the added element includes the limitation whereby the mouthpiece is “configured and dimensioned to surround teeth of the patient” in a manner fully consistent with the term “mouthpiece.” This limitation is not found in the Llop (US 20170252126 A1) reference since the “mouthpiece” in Llop is not configured and dimensioned to surround teeth of the patient. The device in Llop is entirely different from a mouthpiece and is instead referred to in the application as an “anchoring strut.”

In addition, please consider that in the present application's parent case, Application Serial No. 17/670,362, now U.S. Patent No. 11,576,755, we amended the independent claims in the same manner as presented here to overcome the Llop reference and push the application to allowance. We believe the same consideration should be afforded in the present application.

Finally, I have amended claim 9 as well to correct the 112 issue.

Respectfully submitted,

ITALIA IP
Attorneys for Applicant

By: /James A. Italia/
James A. Italia
Registration Number 56,549

Amendments to the Claims:

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

Listing of Claims:

I claim:

1. (Currently Amended) A method of installing a multi-tooth dental prosthesis in a maxillary or mandibular position in a mouth of a patient, the method comprising:

providing a dental prosthesis for the maxillary or mandibular positioning in the patient's mouth,

utilizing a fixation base to serve as a mounting jig for a plurality of other dental guides comprising a first dental guide and a second dental guide, wherein the fixation base comprises a generally arcuate shape with a front surface that has a plurality of openings through which fasteners can be passed, a rear surface, and a horizontal surface;

utilizing the first dental guide, wherein the first dental guide is a mouthpiece that attaches to the fixation base and configured and dimensioned to surround teeth of the patient and is used to assure appropriate location to attach the fixation base to the maxillary or mandibular bone tissue of said patient;

installing the fixation base to the maxillary or mandibular bone tissue of said patient;

removing the mouthpiece from the installed fixation base;

removing at least one of natural teeth, dental fixtures, and obstructive mouth tissues from the work site, to expose an underside of the maxillary or mandibular bone tissue;

recontouring the bone tissue;

utilizing the second dental guide, wherein the second dental guide is a drill guide that attaches to the installed fixation base to assure appropriate location and orientation of holes to be drilled for the subsequently installed implants;

drilling the implant holes in the bone tissue using the drill guide attached to the fixation base;

installing implants in the implant holes;

installing the abutments to the implants; and,

installing said dental prosthesis to the abutments.

2. (Previously Presented) The method of claim 1, wherein installing the fixation base to maxillary or mandibular bone tissue of the patient further comprises driving fasteners through the fixation base into the bone tissue to secure the fixation base to the maxillary or mandibular bone.

3. (Original) The method of claim 1, wherein the step of recontouring the bone tissue comprises using a preformed surface on the installed fixation base to assure proper recontouring of the bone tissue.

4. (Original) The method of claim 1, wherein the step of recontouring the bone tissue comprises utilizing a fourth guide apparatus, wherein the fourth guide apparatus is a bone reduction guide that attaches to the installed fixation base to assure proper recontouring of the bone tissue.

5. (Previously Presented) The method of claim 14, wherein installing the abutments includes adjusting the abutments to appropriate angular orientations relative to a central axis of associated implants using pre-established indicators on the abutment guide base.

6. (Previously Presented) An apparatus for installing a dental prosthesis to maxillary or mandibular jaw bone of a patient, the apparatus comprising:

a fixation base for providing an attachment surface for a dental guide used during a dental prosthesis installation procedure, the fixation base further comprising a generally

arcuate base member with a front surface that includes a plurality of openings through which fasteners can be passed, a rear surface, and a horizontal surface; and

a first dental guide, wherein the first dental guide is a mouthpiece configured and dimensioned to surround teeth of the patient and to attach to the fixation base and to be removed after the fixation base is affixed to the maxillary or mandibular bone structure of a patient.

7. (Previously Presented) The apparatus of claim 6, wherein the attachment surface of the fixation base includes:

a plurality of slots in said horizontal surface of said fixation base for accepting tabs located on the dental guide; and

bores and bosses extending radially from the front surface of said fixation base.

8. (Canceled)

9. (Currently Amended) The apparatus of claim 6, wherein the attachment surface of the fixation base includes a plurality of slots in the horizontal surface of the fixation base, wherein the dental guide includes a plurality of tabs extending toward and fitting closely with the slots of the fixation base, whereby the dental guide engages the fixation base by interfit between the slots of the fixation base and the tabs of the dental guide.

10. (Previously Presented) The apparatus of claim 6, further comprising a second dental guide attachable to the fixation base, wherein the second dental guide is a drill guide for guiding the drilling of holes for implants, , wherein the drill guide includes a plurality of generally vertical bores corresponding in location to and in axial registry with intended implant sites.

11. (Previously Presented) The apparatus of claim 10, wherein the drill guide is made from a metal, metallic alloy, composite, polymer, or any other material that is

sufficiently strong enough to withstand breakage during a prosthesis installation procedure and comprises a support bar, a plurality of bosses with one boss for each one of the vertical bores, the bosses located rearwardly of the support bar and attached to the support bar by arms such that voids exist between the bosses and the support bar, the voids enabling direct observation of patient anatomy and insertion of irrigation and evacuation apparatus.

12. (Previously Presented) The apparatus of claim 6, further comprising a third dental guide attachable to the fixation base, wherein the third dental guide is an abutment guide oriented to receive abutments and guide the abutments for placement against the implants

13. (Currently Amended) A method of installing a fixation base in a maxillary or mandibular position in a mouth of a patient, the method comprising:

utilizing a fixation base for providing an attachment surface for a dental guide used during a dental prosthesis installation procedure, wherein the fixation base comprises a generally arcuate shape with a front surface that has a plurality of openings through which fasteners can be passed through, a rear surface, and a horizontal surface, ;

utilizing a mouthpiece configured and dimensioned to surround teeth of the patient;

attaching the mouthpiece to the fixation base;

installing the mouthpiece onto at least some surfaces of the maxillary or mandibular portion of the mouth of the patient to assist in positioning the fixation base appropriately prior to installing the fixation base to maxillary or mandibular bone tissue of the patient;

installing the fixation base to the maxillary or mandibular portions of the patient using fasteners through said plurality of openings in said front surface of the fixation base; and,

removing the mouthpiece from the fixation base.

14. (Previously Presented) The apparatus of claim 1, further comprising the step of:

utilizing a third dental guide, wherein the third dental guide is an abutment guide base that attaches to the installed fixation base to assure appropriate location for the installed abutments.

15. (Previously Presented) The apparatus of claim 6, wherein the fixation base is made from a metal, metallic alloy, composite, polymer, or any other material that is sufficiently strong enough to withstand breakage during a prosthesis installation procedure.

16. (Previously Presented) The apparatus of claim 6, wherein the fixation base further comprises a surface to assist in recontouring of bone tissue.

17. (Previously Presented) The apparatus of claim 6, further comprising a fourth guide apparatus, wherein the fourth guide apparatus is a bone reduction guide that attaches to the installed fixation base to assist in recontouring of bone tissue.

18. (Previously Presented) The apparatus of claim 6, further comprising a dental prosthesis, wherein the dental prosthesis attaches to the installed fixation base.

Electronic Acknowledgement Receipt

EFS ID:	47777319
Application Number:	17503359
International Application Number:	
Confirmation Number:	4207
Title of Invention:	Fixation Base and Guides for Dental Prosthesis Installation
First Named Inventor/Applicant Name:	Jason Watson
Customer Number:	59259
Filer:	James Anthony Italia
Filer Authorized By:	
Attorney Docket Number:	J.WAT-003
Receipt Date:	31-MAR-2023
Filing Date:	18-OCT-2021
Time Stamp:	19:22:47
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no
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File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Amendment/Request for Reconsideration-After Non-Final Rejection	NFOAResponse17503359.pdf	123200	no	11
			8a958beb7244b741c445f95727f90559c10 23ef3		

Warnings:

Information:	
Total Files Size (in bytes):	123200
<p>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.</p> <p><u>New Applications Under 35 U.S.C. 111</u> If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.</p> <p><u>National Stage of an International Application under 35 U.S.C. 371</u> If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.</p> <p><u>New International Application Filed with the USPTO as a Receiving Office</u> If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.</p>	

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re: Patent Application of:
Jason Watson

Serial No. 17/503,359

Confirmation No. 4207

Filed: October 18, 2021

For: FIXATION BASE AND GUIDES FOR
DENTAL PROSTHESIS
INSTALLATION

Group Art Unit: 3772

Examiner: Aponte, Mirayda Arlene

Burbank, California
March 31, 2023

NON-FINAL OFFICE ACTION OF FEBRUARY 9, 2023

Hon. Commissioner of Patents

This is a response to the Non-Final Office Action mailed February 9, 2023. In accordance with 37 CFR §1.111 and §1.112, Applicant proposes to amend the application as follows:

Amendment to the Specification begin on page 2

Amendments to the Claims are reflected in the listing of claims which begins on page 3. No new matter is contained in the amendments.

Remarks begin on page 8.

Amendment to the Specification:

Please amend the following sentence in the specification beginning at line 16 of page 14 as follows:

As may be seen in this view of actual patient anatomy, bulk of fixation base 100 is not excessive, and reduced bone tissue 12 remains in full view to the dental practitioner.

Amendments to the Claims:

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

Listing of Claims:

I claim:

1. (Currently Amended) A method of installing a multi-tooth dental prosthesis in a maxillary or mandibular position in a mouth of a patient, the method comprising:

providing a dental prosthesis for the maxillary or mandibular positioning in the patient's mouth,

utilizing a fixation base to serve as a mounting jig for a plurality of other dental guides comprising a first dental guide and a second dental guide, wherein the fixation base comprises a generally arcuate shape with a front surface that has a plurality of openings through which fasteners can be passed, a rear surface, and a horizontal surface;

utilizing the first dental guide, wherein the first dental guide is a mouthpiece that attaches to the fixation base and configured and dimensioned to surround teeth of the patient and is used to assure appropriate location to attach the fixation base to the maxillary or mandibular bone tissue of said patient;

installing the fixation base to the maxillary or mandibular bone tissue of said patient;

removing the mouthpiece from the installed fixation base;

removing at least one of natural teeth, dental fixtures, and obstructive mouth tissues from the work site, to expose an underside of the maxillary or mandibular bone tissue;

recontouring the bone tissue;

utilizing the second dental guide, wherein the second dental guide is a drill guide that attaches to the installed fixation base to assure appropriate location and orientation of holes to be drilled for the subsequently installed implants;

drilling the implant holes in the bone tissue using the drill guide attached to the fixation base;

installing implants in the implant holes;

installing the abutments to the implants; and,

installing said dental prosthesis to the abutments.

2. (Previously Presented) The method of claim 1, wherein installing the fixation base to maxillary or mandibular bone tissue of the patient further comprises driving fasteners through the fixation base into the bone tissue to secure the fixation base to the maxillary or mandibular bone.

3. (Original) The method of claim 1, wherein the step of recontouring the bone tissue comprises using a preformed surface on the installed fixation base to assure proper recontouring of the bone tissue.

4. (Original) The method of claim 1, wherein the step of recontouring the bone tissue comprises utilizing a fourth guide apparatus, wherein the fourth guide apparatus is a bone reduction guide that attaches to the installed fixation base to assure proper recontouring of the bone tissue.

5. (Previously Presented) The method of claim 14, wherein installing the abutments includes adjusting the abutments to appropriate angular orientations relative to a central axis of associated implants using pre-established indicators on the abutment guide base.

6. (Currently Amended) An apparatus for installing a dental prosthesis to maxillary or mandibular jaw bone of a patient, the apparatus comprising:

a fixation base for providing an attachment surface for a dental guide used during a dental prosthesis installation procedure, the fixation base further comprising a generally

arcuate base member with a front surface that includes a plurality of openings through which fasteners can be passed, a rear surface, and a horizontal surface, and

~~a first dental guide, wherein the first dental guide is a mouthpiece configured and dimensioned to surround teeth of the patient and to attach to the fixation base and to be removed after the fixation base is affixed to the maxillary or mandibular bone structure of a patient.~~

7. (Previously Presented) The apparatus of claim 6, wherein the attachment surface of the fixation base includes:

a plurality of slots in said horizontal surface of said fixation base for accepting tabs located on the dental guide; and

bores and bosses extending radially from the front surface of said fixation base.

8. Canceled.

9. (Currently Amended) The apparatus of claim 6, wherein the attachment surface of the fixation base includes a plurality of slots in the horizontal surface of the fixation base, wherein the dental guide includes a plurality of tabs extending toward and fitting closely with the slots of the fixation base, whereby the dental guide engages the fixation base by interfit between the slots of the fixation base and the tabs of the dental guide apparatus.

10. (Previously Presented) The apparatus of claim 6, further comprising a second dental guide attachable to the fixation base, wherein the second dental guide is a drill guide for guiding the drilling of holes for implants, , wherein the drill guide includes a plurality of generally vertical bores corresponding in location to and in axial registry with intended implant sites.

11. (Previously Presented) The apparatus of claim 10, wherein the drill guide is made from a metal, metallic alloy, composite, polymer, or any other material that is sufficiently strong enough to withstand breakage during a prosthesis installation procedure and comprises a support bar, a plurality of bosses with one boss for each one of the vertical bores, the bosses located rearwardly of the support bar and attached to the support bar by arms such that voids exist between the bosses and the support bar, the voids enabling direct observation of patient anatomy and insertion of irrigation and evacuation apparatus.

12. (Previously Presented) The apparatus of claim 6, further comprising a third dental guide attachable to the fixation base, wherein the third dental guide is an abutment guide oriented to receive abutments and guide the abutments for placement against the implants

13. (Currently Amended) A method of installing a fixation base in a maxillary or mandibular position in a mouth of a patient, the method comprising:

utilizing a fixation base for providing an attachment surface for a dental guide used during a dental prosthesis installation procedure, wherein the fixation base comprises a generally arcuate shape with a front surface that has a plurality of openings through which fasteners can be passed through, a rear surface, and a horizontal surface, ;

utilizing a mouthpiece configured and dimensioned to surround teeth of the patient;

attaching the mouthpiece to the fixation base;

installing the mouthpiece onto at least some surfaces of the maxillary or mandibular portion of the mouth of the patient to assist in positioning the fixation base appropriately prior to installing the fixation base to maxillary or mandibular bone tissue of the patient;

installing the fixation base to the maxillary or mandibular portions of the patient using fasteners through said plurality of openings in said front surface of the fixation base; and,

removing the mouthpiece from the fixation base.

14. (Previously Presented) The apparatus of claim 1, further comprising the step of:

utilizing a third dental guide, wherein the third dental guide is an abutment guide base that attaches to the installed fixation base to assure appropriate location for the installed abutments.

15. (Previously Presented) The apparatus of claim 6, wherein the fixation base is made from a metal, metallic alloy, composite, polymer, or any other material that is sufficiently strong enough to withstand breakage during a prosthesis installation procedure.

16. (Previously Presented) The apparatus of claim 6, wherein the fixation base further comprises a surface to assist in recontouring of bone tissue.

17. (Previously Presented) The apparatus of claim 6, further comprising a fourth guide apparatus, wherein the fourth guide apparatus is a bone reduction guide that attaches to the installed fixation base to assist in recontouring of bone tissue.

18. (Previously Presented) The apparatus of claim 6, further comprising a dental prosthesis, wherein the dental prosthesis attaches to the installed fixation base.

REMARKS

Claims 1-18 were presented for examination as filed in a preliminary amendment on February 11, 2022. In the present Office Action:

- Figure 8 of drawings was objected to because it had a reference numeral “12” that was not found in the specification.
- Claim 9 was 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.
- Claims 1-3, 5-16 and 18 were rejected under 35 U.S.C. 102(a)(1) as being anticipated by Llop (US 20170252126 A1) (aka Llop'126).
- Claims 4 and 17 were rejected are rejected under 35 U.S.C. 103 as being unpatentable over Llop '126 as applied to claims 1 and 6 respectively above, and further in view of Llop (US 20150010881 A1) (aka Llop '881).

Applicant amended the specification to overcome the objection to the drawings. Applicant has amended claim 9 to overcome the Section 112 indefinite rejection. Applicant also amended independent claims 1, 6, and 13 to address the current rejections by incorporating elements of claim 8. Claim 8 has been canceled.

Applicant respectfully requests the Examiner to admit the Amendments. Applicant believes the pending claims are in a condition of allowance and requests notice thereof.

Objections to the Drawings Under 37 CFR 1.84(p)(5)

On page 2 of the Office Action, the drawings were objected to as failing to comply with 37 CFR 1.84(p)(5) because Figure 8 includes a reference character 12, which is not mentioned in the description. Applicant amended the appropriate portion of the

specification to now include reference character 12. Applicant requests that the objection to the drawings be withdrawn.

Rejections Under 35 U.S.C. §§ 112

On page 2 of the Office Action, the Examiner rejected claim 8 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.

More specifically, the examiner rejected claim 9 because it recites the limitation "guide apparatus " in line 6 which lacks proper antecedent basis. The term "guide apparatus" was a typographical error that has been corrected via amendment to "dental guide" to cure the issue.

Rejections Under 35 U.S.C. §§ 102 and 104

Claims 1-3, 5-16 and 18 are rejected under 35 U.S.C. 102(a)(1) as being anticipated by Llop '126. Further, claims 4 and 17 are rejected under 35 U.S.C. 103 as being unpatentable over Llop '126 as applied to claim 1 and 6 respectively above, and further in view of Llop '881. In response, Applicant has amended each of the pending claims (1, 6 and 13) by incorporating the elements of canceled claim 8. Namely, the added element includes the limitation whereby the mouthpiece is "configured and dimensioned to surround teeth of the patient" in a manner fully consistent with the term "mouthpiece." This limitation is not found in the Llop '126 reference since the "mouthpiece" in Llop '126 is not configured and dimensioned to surround teeth of the patient. The device in Llop '126 is entirely different from a mouthpiece and is instead referred to in the application as an "anchoring strut."

To illustrate the difference between Applicant's claimed method and apparatus and the method and apparatus of Llop '126, Applicant generates a mouthpiece using the patient's existing teeth. That mouthpiece is "configured and dimensioned to surround

teeth of the patient.” Further, the patient’s existing teeth remain in the patient’s mouth and are used to properly position the fixation base on the patient’s jaw via the mouthpiece. Thus, the patient’s existing teeth are therefore required to accurately position the fixation base. To simplify, it is the patient’s existing teeth that provide the surfaces for the mouthpiece to mate with so that once the mouthpiece abuts against the patient’s teeth surfaces, the dental practitioner is ensured that the position of the fixation base on the patient’s jaw is correct. Without the patient’s existing teeth to provide this “hand and glove” relationship, Applicant’s fixation base cannot be mounted accurately and the rest of the process breaks down from there.

In contrast, Llop ‘126 removes the teeth of the patient *prior* to positioning its “fixation base.” As a result, Llop ‘126 does *not* utilize a mouthpiece “configured and dimensioned to surround teeth of the patient” because there are no teeth to utilize. Instead, as mentioned above, Llop ‘126 utilizes an “anchoring strut” which is not “configured and dimensioned to surround teeth of the patient.”

Llop ‘126 is relied on to reject all the claims, either under 35 U.S.C. § 102(a)(1) or as a primary reference under 35 U.S.C. § 103, and the Office has not shown how either reference, alone or in combination, teaches a mouthpiece “configured and dimensioned to surround teeth of the patient.” Accordingly, reconsideration and withdrawal of the 35 U.S.C. § 102 rejection of claims 1-3, 5-16 and 18 and the 35 U.S.C. § 103 rejections of claims 4 and 17 are respectfully requested.

In addition, Applicant requests that the Office please consider that in the present application’s related case, Application Serial No. 17/670,362, now U.S. Patent No. 11,576,755, Applicant amended the independent claims in the same manner as presented here to overcome the Llop ‘126 reference and push the application to allowance. Applicant believes the same consideration should be afforded in the present application.

Examiner Interview Summary

The undersigned representative, the inventor Jason Watson, and Examiner Aponte conducted a telephonic interview on March 21, 2023 to discuss some of the objections raised by the Examiner. Consistent with the discussions with the Examiner, Applicant has amended the specification and claims to overcome said objections. Applicant thanks the Examiner for the time and the constructive discussion to push this application to a condition of allowance.

Conclusion

The Office Action contains characterizations of the claims and the related art with which Applicant does not necessarily agree. Unless expressly noted otherwise, Applicant declines to subscribe to any statement or characterization in the Office Action.

In discussing the specification, claims, and drawings in this Amendment, it is to be understood that Applicant is in no way intending to limit the scope of the claims to any exemplary embodiments described in the specification or abstract and/or shown in the drawings. Rather, Applicant is entitled to have the claims interpreted broadly, to the maximum extent permitted by statute, regulation, and applicable case law.

In view of the foregoing remarks, Applicant submits that this claimed invention, as amended, is not anticipated or rendered obvious by the prior art references cited against this application. Applicant therefore respectfully requests the Examiner's reconsideration and reexamination of the application, and the timely allowance of the pending claims.

Respectfully submitted,

ITALIA IP
Attorneys for Applicant

By: /James A. Italia/
James A. Italia
Registration Number 56,549

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PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875	Application or Docket Number 17/503,359	Filing Date 10/18/2021	☐ To be Mailed
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ENTITY: ☐ LARGE ☒ SMALL ☐ MICRO

APPLICATION AS FILED - PART I

	(Column 1)	(Column 2)		
FOR	NUMBER FILED	NUMBER EXTRA	RATE (\$)	FEE (\$)
☐ BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A	N/A	
☐ SEARCH FEE (37 CFR 1.16(k), (i), or (m))	N/A	N/A	N/A	
☐ EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A	N/A	
TOTAL CLAIMS (37 CFR 1.16(i))	minus 20 =	*	x \$50 =	
INDEPENDENT CLAIMS (37 CFR 1.16(h))	minus 3 =	*	x \$240 =	
☐ APPLICATION SIZE FEE (37 CFR 1.16(s))	If the specification and drawings exceed 100 sheets of paper, the application size fee due is \$310 (\$155 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).			
☐ MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))				
* If the difference in column 1 is less than zero, enter "0" in column 2.			TOTAL	

APPLICATION AS AMENDED - PART II

	(Column 1)		(Column 2)	(Column 3)			
AMENDMENT	03/31/2023	CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE (\$)	ADDITIONAL FEE (\$)
	Total (37 CFR 1.16(i))	* 17	Minus	** 20	= 0	x \$40 =	0
	Independent (37 CFR 1.16(h))	* 3	Minus	*** 3	= 0	x \$192 =	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	
AMENDMENT		CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE (\$)	ADDITIONAL FEE (\$)
	Total (37 CFR 1.16(i))	*	Minus	**	=	x \$0 =	
	Independent (37 CFR 1.16(h))	*	Minus	***	=	x \$0 =	
	☐ Application Size Fee (37 CFR 1.16(s))						
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))						
					TOTAL ADD'L FEE		
* If the entry in column 1 is less than the entry in column 2, write "0" in column 3.						LIE	
** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20".						/CRYSTAL QUEEN/	
*** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3".							
The "Highest Number Previously Paid For" (Total or Independent) is the highest number found in the appropriate box in column 1.							

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

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PATENT APPLICATION FEE DETERMINATION RECORD				Application or Docket Number 17/503,359		Filing Date 10/18/2021		☐ To be Mailed		
Substitute for Form PTO-875										
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						
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☐ 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										
AMENDMENT	05/15/2023	CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE (\$)		ADDITIONAL FEE (\$)		
	Total (37 CFR 1.16(i))	* 17	Minus	** 20	= 0	x \$40 =		0		
	Independent (37 CFR 1.16(h))	* 3	Minus	*** 3	= 0	x \$192 =		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		
AMENDMENT		CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE (\$)		ADDITIONAL FEE (\$)		
	Total (37 CFR 1.16(i))	*	Minus	**	=	x \$0 =				
	Independent (37 CFR 1.16(h))	*	Minus	***	=	x \$0 =				
	☐ Application Size Fee (37 CFR 1.16(s))									
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))									
						TOTAL ADD'L FEE				
* If the entry in column 1 is less than the entry in column 2, write "0" in column 3.						LIE				
** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20".						/DAWN BREWER/				
*** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3".										
The "Highest Number Previously Paid For" (Total or Independent) is the highest number found in the appropriate box in column 1.										

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Electronic Acknowledgement Receipt

EFS ID:	48004626
Application Number:	17503359
International Application Number:	
Confirmation Number:	4207
Title of Invention:	Fixation Base and Guides for Dental Prosthesis Installation
First Named Inventor/Applicant Name:	Jason Watson
Customer Number:	59259
Filer:	James Anthony Italia
Filer Authorized By:	
Attorney Docket Number:	J.WAT-003
Receipt Date:	15-MAY-2023
Filing Date:	18-OCT-2021
Time Stamp:	17:39:20
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no
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File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Amendment/Request for Reconsideration-After Non-Final Rejection	NFOAResponse17503359v2.pdf	141053 339e5c3b243c62a6c62d0adaeeb0fcb3607 d288c	no	11

Warnings:

Information:	
Total Files Size (in bytes):	141053
<p>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.</p> <p><u>New Applications Under 35 U.S.C. 111</u> If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.</p> <p><u>National Stage of an International Application under 35 U.S.C. 371</u> If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.</p> <p><u>New International Application Filed with the USPTO as a Receiving Office</u> If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.</p>	

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re: Patent Application of:
Jason Watson

Serial No. 17/503,359

Confirmation No. 4207

Filed: October 18, 2021

For: FIXATION BASE AND GUIDES FOR
DENTAL PROSTHESIS
INSTALLATION

Group Art Unit: 3772

Examiner: Aponte, Mirayda Arlene

Burbank, California
May 15, 2023

AMENDED RESPONSE TO RESPONSE FILED MARCH 31, 2023

Hon. Commissioner of Patents

Applicant submitted a timely response on March 31, 2023 to the Non-Final Office Action mailed February 9, 2023. Applicant wishes to enter the present response in place of its prior response filed March 31, 2023. Applicant contacted the Examiner regarding this on May 15, 2023 and was instructed by the Examiner to file the following as a replacement for its prior response filed March 31, 2023.

In accordance with 37 CFR §1.111 and §1.112, Applicant proposes to amend the application as follows:

Amendment to the Specification begin on page 2

Amendments to the Claims are reflected in the listing of claims which begins on page 3. No new matter is contained in the amendments.

Remarks begin on page 8.

Amendment to the Specification:

Please amend the following sentence in the specification beginning at line 16 of page 14 as follows:

As may be seen in this view of actual patient anatomy, bulk of fixation base 100 is not excessive, and reduced bone tissue 12 remains in full view to the dental practitioner.

Amendments to the Claims:

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

Listing of Claims:

I claim:

1. (Currently Amended) A method of installing a multi-tooth dental prosthesis in a maxillary or mandibular position in a mouth of a patient, the method comprising:

providing a dental prosthesis for the maxillary or mandibular positioning in the patient's mouth,

utilizing a fixation base to serve as a mounting jig for a plurality of other dental guides comprising a first dental guide and a second dental guide, wherein the fixation base comprises a generally arcuate shape with a front surface that has a plurality of openings through which fasteners can be passed, a rear surface, and a horizontal surface;

utilizing the first dental guide, wherein the first dental guide is a mouthpiece that attaches to the fixation base and configured and dimensioned to surround at least a portion of the teeth of the patient and is used to assure appropriate location to attach the fixation base to the maxillary or mandibular bone tissue of said patient;

installing the fixation base to the maxillary or mandibular bone tissue of said patient;

removing the mouthpiece from the installed fixation base;

removing at least one of natural teeth, dental fixtures, and obstructive mouth tissues from the work site, to expose an underside of the maxillary or mandibular bone tissue;

recontouring the bone tissue;

utilizing the second dental guide, wherein the second dental guide is a drill guide that attaches to the installed fixation base to assure appropriate location and orientation of holes to be drilled for the subsequently installed implants;

drilling the implant holes in the bone tissue using the drill guide attached to the fixation base;

installing implants in the implant holes;

installing the abutments to the implants; and,

installing said dental prosthesis to the abutments.

2. (Previously Presented) The method of claim 1, wherein installing the fixation base to maxillary or mandibular bone tissue of the patient further comprises driving fasteners through the fixation base into the bone tissue to secure the fixation base to the maxillary or mandibular bone.

3. (Original) The method of claim 1, wherein the step of recontouring the bone tissue comprises using a preformed surface on the installed fixation base to assure proper recontouring of the bone tissue.

4. (Original) The method of claim 1, wherein the step of recontouring the bone tissue comprises utilizing a fourth guide apparatus, wherein the fourth guide apparatus is a bone reduction guide that attaches to the installed fixation base to assure proper recontouring of the bone tissue.

5. (Previously Presented) The method of claim 14, wherein installing the abutments includes adjusting the abutments to appropriate angular orientations relative to a central axis of associated implants using pre-established indicators on the abutment guide base.

6. (Currently Amended) An apparatus for installing a dental prosthesis to maxillary or mandibular jaw bone of a patient, the apparatus comprising:

a fixation base for providing an attachment surface for a dental guide used during a dental prosthesis installation procedure, the fixation base further comprising a generally

arcuate base member with a front surface that includes a plurality of openings through which fasteners can be passed, a rear surface, and a horizontal surface; and

a first dental guide, wherein the first dental guide is a mouthpiece configured and dimensioned to surround at least a portion of the teeth of the patient and to attach to the fixation base and to be removed after the fixation base is affixed to the maxillary or mandibular bone structure of a patient.

7. (Previously Presented) The apparatus of claim 6, wherein the attachment surface of the fixation base includes:

a plurality of slots in said horizontal surface of said fixation base for accepting tabs located on the dental guide; and

bores and bosses extending radially from the front surface of said fixation base.

8. Canceled.

9. (Currently Amended) The apparatus of claim 6, wherein the attachment surface of the fixation base includes a plurality of slots in the horizontal surface of the fixation base, wherein the dental guide includes a plurality of tabs extending toward and fitting closely with the slots of the fixation base, whereby the dental guide engages the fixation base by interfit between the slots of the fixation base and the tabs of the dental guide apparatus.

10. (Previously Presented) The apparatus of claim 6, further comprising a second dental guide attachable to the fixation base, wherein the second dental guide is a drill guide for guiding the drilling of holes for implants, , wherein the drill guide includes a plurality of generally vertical bores corresponding in location to and in axial registry with intended implant sites.

11. (Previously Presented) The apparatus of claim 10, wherein the drill guide is made from a metal, metallic alloy, composite, polymer, or any other material that is sufficiently strong enough to withstand breakage during a prosthesis installation procedure and comprises a support bar, a plurality of bosses with one boss for each one of the vertical bores, the bosses located rearwardly of the support bar and attached to the support bar by arms such that voids exist between the bosses and the support bar, the voids enabling direct observation of patient anatomy and insertion of irrigation and evacuation apparatus.

12. (Previously Presented) The apparatus of claim 6, further comprising a third dental guide attachable to the fixation base, wherein the third dental guide is an abutment guide oriented to receive abutments and guide the abutments for placement against the implants

13. (Currently Amended) A method of installing a fixation base in a maxillary or mandibular position in a mouth of a patient, the method comprising:

utilizing a fixation base for providing an attachment surface for a dental guide used during a dental prosthesis installation procedure, wherein the fixation base comprises a generally arcuate shape with a front surface that has a plurality of openings through which fasteners can be passed through, a rear surface, and a horizontal surface, ;

utilizing a mouthpiece configured and dimensioned to surround at least a portion of the teeth of the patient;

attaching the mouthpiece to the fixation base;

installing the mouthpiece onto at least some surfaces of the maxillary or mandibular portion of the mouth of the patient to assist in positioning the fixation base appropriately prior to installing the fixation base to maxillary or mandibular bone tissue of the patient;

installing the fixation base to the maxillary or mandibular portions of the patient using fasteners through said plurality of openings in said front surface of the fixation base; and,

removing the mouthpiece from the fixation base.

14. (Previously Presented) The apparatus of claim 1, further comprising the step of:

utilizing a third dental guide, wherein the third dental guide is an abutment guide base that attaches to the installed fixation base to assure appropriate location for the installed abutments.

15. (Previously Presented) The apparatus of claim 6, wherein the fixation base is made from a metal, metallic alloy, composite, polymer, or any other material that is sufficiently strong enough to withstand breakage during a prosthesis installation procedure.

16. (Previously Presented) The apparatus of claim 6, wherein the fixation base further comprises a surface to assist in recontouring of bone tissue.

17. (Previously Presented) The apparatus of claim 6, further comprising a fourth guide apparatus, wherein the fourth guide apparatus is a bone reduction guide that attaches to the installed fixation base to assist in recontouring of bone tissue.

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Claims 1-18 were presented for examination as filed in a preliminary amendment on February 11, 2022. In the present Office Action:

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patient's existing teeth. That mouthpiece is "configured and dimensioned to surround at least a portion of the teeth of the patient." Further, the patient's existing teeth remain in the patient's mouth and are used to properly position the fixation base on the patient's jaw via the mouthpiece. Thus, the patient's existing teeth are required to accurately position the fixation base. To simplify, it is the patient's existing teeth that provide the surfaces for the mouthpiece to mate with so that once the mouthpiece abuts against at least a portion of the patient's teeth surfaces, the dental practitioner is ensured that the position of the fixation base on the patient's jaw is correct. Without the patient's existing teeth to provide this "hand and glove" relationship, Applicant's fixation base cannot be mounted accurately and the rest of the process breaks down from there.

In contrast, Llop '126 removes the teeth of the patient *prior* to positioning its "fixation base." As a result, Llop '126 does *not* utilize a mouthpiece "configured and dimensioned to surround at least a portion of the teeth of the patient" because there are no teeth to utilize. Instead, as mentioned above, Llop '126 utilizes an "anchoring strut" which is not "configured and dimensioned to surround at least a portion of the teeth of the patient."

Llop '126 is relied on to reject all the claims, either under 35 U.S.C. § 102(a)(1) or as a primary reference under 35 U.S.C. § 103, and the Office has not shown how either reference, alone or in combination, teaches a mouthpiece "configured and dimensioned to surround at least a portion of the teeth of the patient." Accordingly, reconsideration and withdrawal of the 35 U.S.C. § 102 rejection of claims 1-3, 5-16 and 18 and the 35 U.S.C. § 103 rejections of claims 4 and 17 are respectfully requested.

In addition, Applicant requests that the Office please consider that in the present application's related case, Application Serial No. 17/670,362, now U.S. Patent No. 11,576,755, Applicant amended the independent claims in a similar manner as presented here to overcome the Llop '126 reference and push that application to allowance. Applicant believes the same consideration should be afforded in the present application.

Examiner Interview Summary

The undersigned representative, the inventor Jason Watson, and Examiner Aponte conducted a telephonic interview on March 21, 2023 to discuss some of the objections raised by the Examiner. Consistent with the discussions with the Examiner, Applicant has amended the specification and claims to overcome said objections. Applicant thanks the Examiner for the time and the constructive discussion to push this application to a condition of allowance.

Conclusion

The Office Action contains characterizations of the claims and the related art with which Applicant does not necessarily agree. Unless expressly noted otherwise, Applicant declines to subscribe to any statement or characterization in the Office Action.

In discussing the specification, claims, and drawings in this Amendment, it is to be understood that Applicant is in no way intending to limit the scope of the claims to any exemplary embodiments described in the specification or abstract and/or shown in the drawings. Rather, Applicant is entitled to have the claims interpreted broadly, to the maximum extent permitted by statute, regulation, and applicable case law.

In view of the foregoing remarks, Applicant submits that this claimed invention, as amended, is not anticipated or rendered obvious by the prior art references cited against this application. Applicant therefore respectfully requests the Examiner's reconsideration and reexamination of the application, and the timely allowance of the pending claims.

Respectfully submitted,

ITALIA IP
Attorneys for Applicant

By: /James A. Italia/
James A. Italia
Registration Number 56,549



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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
17/503,359	10/18/2021	Jason Watson	J.WAT-003	4207
59259	7590	08/03/2023		
ITALIA IP 3500 WEST OLIVE AVE. SUITE 300 BURBANK, CA 91505			EXAMINER APONTE, MIRAYDA ARLENE	
			ART UNIT	PAPER NUMBER
			3772	
			NOTIFICATION DATE	DELIVERY MODE
			08/03/2023	ELECTRONIC

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

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

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

ITALIA@ITALIAIP.COM
jitalia@hotmail.com
pto@thepatentoffice.com

Office Action Summary	Application No. 17/503,359	Applicant(s) Watson, Jason	
	Examiner MIRAYDA A APONTE	Art Unit 3772	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 15 May 2023.

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

2a) ☐ This action is **FINAL**.

2b) ☒ This action is non-final.

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

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

Disposition of Claims*

5) ☒ Claim(s) 1-7 and 9-15 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) 1-7,9-10,12-15 and 18 is/are rejected.

8) ☒ Claim(s) 11 and 16-17 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 ____ 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)

3) ☐ Interview Summary (PTO-413)

Paper No(s)/Mail Date ____.

2) ☐ Information Disclosure Statement(s) (PTO/SB/08a and/or PTO/SB/08b)

4) ☐ Other: ____.

Paper No(s)/Mail Date ____.

DETAILED ACTION

Notice of Pre-AIA or AIA Status

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

Specification

2. The amended specification was received on 15 May 2023. This amended specification is not acceptable.

3. The amended specification received on 15 May 2023 indicates that the amendment is on page 14 line 16. Said page and line does not correlate with the sentence to be amended. The Office suggest to verify if the amended sentence should be in page 14, line 14 instead.

Claim Objections

4. **Claims 4, 17 and 13** are objected to because of the following informalities:

a. **Regarding claim 4 and 17**, the claims use the term “fourth guide apparatus”, but the previous claims do not describe the use of a “third guide apparatus” or a “third dental guide”. It is suggested to always maintain proper numerical sequence when describing a series of structures, e.g. if it has been described a first dental guide and a second dental guide in claim 1, the must recommended name for the next structure would has been a “third dental guide”, or change the numerical sequence of the claims so that the numbers of the described structures are in sequence. Appropriate correction is required.

b. **Regarding claim 13**, at the end of line 6 it is used the following punctuation marks “ , ; ”, in which it should be one or the other. It is understood that the use of

marks is an unintended error, it is suggested to use one of them as applicant sees proper. Appropriate correction is required.

Double Patenting

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

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

examination under the first inventor to file provisions of the AIA. A terminal disclaimer must be signed in compliance with 37 CFR 1.321(b).

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

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

9. **Claims 1-7, 9-10, 12-14 and 18 rejected on the ground of nonstatutory double patenting as being unpatentable over claims 1-5 of U.S. Patent No. 11173016 B2.**

10. Although the claims at issue are not identical, they are not patentably distinct from each other.

11. **Regarding claims 1-5 and 14**, U.S. Patent No. 11173016 B2 discloses a method of installing a multi-tooth dental prosthesis in a maxillary or mandibular position in a mouth of a patient (see the steps and structures in claims 1-5 of the US Patent).
12. **Regarding claims 6-7, 9-10, 12 and 18**, U.S. Patent No. 11173016 B2 discloses an apparatus for installing a dental prosthesis to the maxillary or mandibular jaw bone of a patient (see the structures in claims 6-10 and 12 of the US Patent).
13. **Regarding claim 13**, U.S. Patent No. 11173016 B2 discloses a method of installing a fixation base in a maxillary or mandibular position in a mouth of a patient (see the steps and structures in claim 13 of the US Patent).
14. **Claim 15 is rejected on the ground of nonstatutory double patenting as being unpatentable over claim 6 of U.S. Patent No. 11173016 B2 in view of Pompa (US 5320529 A).**
15. **Regarding claim 15**, U.S. Patent No. 11173016 B2 discloses the claimed invention substantially as claimed, as set forth above for claim 6.
16. However, U.S. Patent No. 11173016 B2 does not disclose that fixation base is made from a metal, metallic alloy, composite, polymer, or any other material that is sufficiently strong enough to withstand breakage during a prosthesis installation procedure.
17. Pompa teaches surgical guide rings 25a and 25b made of hard material, that can resist chipping, e.g. of titanium alloy, a chrome-cobalt alloy, or a titanium-chrome-cobalt alloy (see col. 5, lines 14-22).
18. 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 material of the fixation base of

U.S. Patent No. 11173016 B2, with any of the alloys of Pompa, in order to provide a fixation base capable of withstanding chipping during a surgical procedure.

Allowable Subject Matter

19. **Claims 11, 16 and 17** 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.

20. The following is a statement of reasons for the indication of allowable subject matter:

a. **Regarding claim 11**, the claimed drill guide including support bar, a plurality of bosses with one boss for each one of the vertical bores, the bosses located rearwardly of the support bar and attached to the support bar by arms such that voids exist between the bosses and the support bar, the voids enabling direct observation of patient anatomy and insertion of irrigation and evacuation apparatus is not found in the claims of the prior art of U.S. Patent No. 11173016 B2.

b. **Regarding claim 16**, the claimed fixation base further comprising a surface to assist in recontouring of bone tissue is not found in the claims of the prior art of U.S. Patent No. 11173016 B2.

c. **Regarding claim 17**, it is claimed fourth guide apparatus, wherein the fourth guide apparatus is a bone reduction guide that attaches to the installed fixation base to assist in recontouring of bone tissue in which is not found in the claims of the prior art of U.S. Patent No. 11173016 B2.

Conclusion

21. Any inquiry concerning this communication or earlier communications from the examiner should be directed to MIRAYDA ARLENE APONTE whose telephone number is (571)270-1933. The examiner can normally be reached M-F 8-5.

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

23. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Cris Rodriguez can be reached on 571-272-4964. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

24. Information regarding the status of published or unpublished applications may be obtained from Patent Center. Unpublished application information in Patent Center is available to registered users. To file and manage patent submissions in Patent Center, visit: <https://patentcenter.uspto.gov>. Visit <https://www.uspto.gov/patents/apply/patent-center> for more information about Patent Center and <https://www.uspto.gov/patents/docx> for information about filing in DOCX format. For additional questions, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/MIRAYDA A APONTE/
Examiner, Art Unit 3772

/RALPH A LEWIS/
Primary Examiner, Art Unit 3772

Notice of References Cited	Application/Control No. 17/503,359		Applicant(s)/Patent Under Reexamination Watson, Jason	
	Examiner MIRAYDA A APONTE		Art Unit 3772	Page 1 of 1

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	CPC Classification	US Classification
*	A	US-11173016-B2	11-2021	Watson; Jason	A61C8/0068	1/1
*	B	US-5320529-A	06-1994	Pompa; Daniel G.	A61C3/02	433/76
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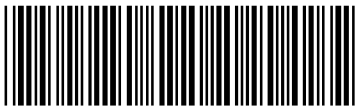
FOREIGN PATENT DOCUMENTS

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

NON-PATENT DOCUMENTS

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

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

<i>Search Notes</i> 	Application/Control No. 17/503,359	Applicant(s)/Patent Under Reexamination Watson, Jason
	Examiner MIRAYDA A APONTE	Art Unit 3772

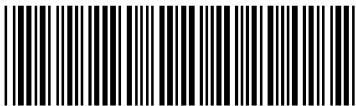
CPC - Searched*		
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A61C1/084,082,08	02/01/2023	MA
A61C3/02	02/01/2023	MA
A61C13/0004,0006,0025,0003,0001,00	02/01/2023	MA
Updated search	07/24/2023	MA

CPC Combination Sets - Searched*		
Symbol	Date	Examiner

US Classification - Searched*			
Class	Subclass	Date	Examiner
433	173-176,201.1	02/01/2023	MA
	Updated search	07/24/2023	MA

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

/MIRAYDA A APONTE/ Examiner, Art Unit 3772	
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<i>Search Notes</i> 	Application/Control No. 17/503,359	Applicant(s)/Patent Under Reexamination Watson, Jason
	Examiner MIRAYDA A APONTE	Art Unit 3772

Search Notes		
Search Notes	Date	Examiner
PE2ESearch	02/01/2023	MA
Word search on (guide jig) ADJ (surgical drill abutment teeth tooth) AND implant AND abutment, (llop).inv. AND dental AND guide, (llop).inv. AND dental AND guide AND cutting ADJ bone, dental AND guide AND cutting ADJ bone, shave ADJ bone, cutting ADJ bone, (dentex).as.	02/01/2023	MA
Word search on dental AND surgical AND guide AND (base jig), dental AND surgical AND guide AND (base jig) AND drill AND (position location), dental AND surgical AND guide AND (base jig) AND drill AND (position location) WITH (adjacent next contact*), dental AND surgical AND guide AND (base jig) AND drill AND (position location) WITH (adjacent next contact*) WITH oppos* WITH (teeth tooth jaw mandible maxi*)	07/24/2023	MA

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

/MIRAYDA A APONTE/ Examiner, Art Unit 3772	
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PE2E SEARCH - Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	British Equivalents	Time Stamp
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		WITH (adjacent next contact*) WITH oppos* WITH (teeth tooth jaw mandible maxi*)	IBM_TDB)				
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PE2E SEARCH - Search History (Interference)

There are no Interference searches to show.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875	Application or Docket Number 17/503,359	Filing Date 10/18/2021	☐ To be Mailed
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ENTITY: ☐ LARGE ☒ SMALL ☐ MICRO

APPLICATION AS FILED - PART I

	(Column 1)	(Column 2)		
FOR	NUMBER FILED	NUMBER EXTRA	RATE (\$)	FEE (\$)
☐ BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A	N/A	
☐ SEARCH FEE (37 CFR 1.16(k), (i), or (m))	N/A	N/A	N/A	
☐ EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A	N/A	
TOTAL CLAIMS (37 CFR 1.16(i))	minus 20 =	*	x \$50 =	
INDEPENDENT CLAIMS (37 CFR 1.16(h))	minus 3 =	*	x \$240 =	
☐ APPLICATION SIZE FEE (37 CFR 1.16(s))	If the specification and drawings exceed 100 sheets of paper, the application size fee due is \$310 (\$155 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).			
☐ MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))				
* If the difference in column 1 is less than zero, enter "0" in column 2.			TOTAL	

APPLICATION AS AMENDED - PART II

	(Column 1)		(Column 2)	(Column 3)			
AMENDMENT	08/04/2023	CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE (\$)	ADDITIONAL FEE (\$)
	Total (37 CFR 1.16(i))	* 17	Minus	** 20	= 0	x \$40 =	0
	Independent (37 CFR 1.16(h))	* 3	Minus	*** 3	= 0	x \$192 =	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	
AMENDMENT		CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE (\$)	ADDITIONAL FEE (\$)
	Total (37 CFR 1.16(i))	*	Minus	**	=	x \$0 =	
	Independent (37 CFR 1.16(h))	*	Minus	***	=	x \$0 =	
	☐ Application Size Fee (37 CFR 1.16(s))						
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))						
					TOTAL ADD'L FEE		
* If the entry in column 1 is less than the entry in column 2, write "0" in column 3.						SLIE	
** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20".						/SHANDA E ROSS/	
*** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3".							
The "Highest Number Previously Paid For" (Total or Independent) is the highest number found in the appropriate box in column 1.							

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

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

Doc Code: DIST.E.FILE Document Description: Electronic Terminal Disclaimer - Filed		PTO/SB/26 U.S. Patent and Trademark Office Department of Commerce	
Electronic Petition Request	TERMINAL DISCLAIMER TO OBIATE A DOUBLE PATENTING REJECTION OVER A "PRIOR" PATENT		
Application Number	17503359		
Filing Date	18-Oct-2021		
First Named Inventor	Jason Watson		
Attorney Docket Number	J.WAT-003		
Title of Invention	Fixation Base and Guides for Dental Prosthesis Installation		
☒ Filing of terminal disclaimer does not obviate requirement for response under 37 CFR 1.111 to outstanding Office Action ☒ This electronic Terminal Disclaimer is not being used for a Joint Research Agreement.			
Owner		Percent Interest	
Jason Watson		100%	
<p>The owner(s) with percent interest listed above in the instant application hereby disclaims, except as provided below, the terminal part of the statutory term of any patent granted on the instant application which would extend beyond the expiration date of the full statutory term of prior patent number(s)</p> <p>11173016</p> <p>as the term of said prior patent is presently shortened by any terminal disclaimer. The owner hereby agrees that any patent so granted on the instant application shall be enforceable only for and during such period that it and the prior patent are commonly owned. This agreement runs with any patent granted on the instant application and is binding upon the grantee, its successors or assigns.</p> <p>In making the above disclaimer, the owner does not disclaim the terminal part of the term of any patent granted on the instant application that would extend to the expiration date of the full statutory term of the prior patent, "as the term of said prior patent is presently shortened by any terminal disclaimer," in the event that said prior patent later:</p> <ul style="list-style-type: none"> - expires for failure to pay a maintenance fee; - is held unenforceable; - is found invalid by a court of competent jurisdiction; - is statutorily disclaimed in whole or terminally disclaimed under 37 CFR 1.321; - has all claims canceled by a reexamination certificate; - is reissued; or - is in any manner terminated prior to the expiration of its full statutory term as presently shortened by any terminal disclaimer. <p>☒ Terminal disclaimer fee under 37 CFR 1.20(d) is included with Electronic Terminal Disclaimer request.</p>			

☐ I certify, in accordance with 37 CFR 1.4(d)(4), that the terminal disclaimer fee under 37 CFR 1.20(d) required for this terminal disclaimer has already been paid in the above-identified application.	
Applicant claims the following fee status: ☒ Small Entity ☐ Micro Entity ☐ Regular Undiscounted	
I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.	
THIS PORTION MUST BE COMPLETED BY THE SIGNATORY OR SIGNATORIES I certify, in accordance with 37 CFR 1.4(d)(4) that I am: ☒ An attorney or agent registered to practice before the Patent and Trademark Office who is of record in this application Registration Number <u>56549</u> ☐ A sole inventor ☐ A joint inventor; I certify that I am authorized to sign this submission on behalf of all of the inventors as evidenced by the power of attorney in the application ☐ A joint inventor; all of whom are signing this request	
Signature	/James A. Italia/
Name	James A. Italia

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

Electronic Patent Application Fee Transmittal

Application Number:	17503359			
Filing Date:	18-Oct-2021			
Title of Invention:	Fixation Base and Guides for Dental Prosthesis Installation			
First Named Inventor/Applicant Name:	Jason Watson			
Filer:	James Anthony Italia			
Attorney Docket Number:	J.WAT-003			
Filed as Small Entity				
Filing Fees for Utility under 35 USC 111(a)				
Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Basic Filing:				
STATUTORY OR TERMINAL DISCLAIMER	2814	1	170	170
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				

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

Doc Code: DISQ.E.FILE

Document Description: Electronic Terminal Disclaimer – Approved

Application No.: 17503359

Filing Date: 18-Oct-2021

Applicant/Patent under Reexamination: Watson

Electronic Terminal Disclaimer filed on August 4, 2023

☒ APPROVED

This patent is subject to a terminal disclaimer

☐ DISAPPROVED

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

U.S. Patent and Trademark Office

Electronic Acknowledgement Receipt

EFS ID:	48398546
Application Number:	17503359
International Application Number:	
Confirmation Number:	4207
Title of Invention:	Fixation Base and Guides for Dental Prosthesis Installation
First Named Inventor/Applicant Name:	Jason Watson
Customer Number:	59259
Filer:	James Anthony Italia
Filer Authorized By:	
Attorney Docket Number:	J.WAT-003
Receipt Date:	04-AUG-2023
Filing Date:	18-OCT-2021
Time Stamp:	17:03:13
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	CARD
Payment was successfully received in RAM	\$ 170
RAM confirmation Number	E202384H03108847
Deposit Account	
Authorized User	

The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows:

File Listing:					
Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Terminal Disclaimer-Filed (Electronic)	eTerminal-Disclaimer.pdf	41231	no	2
			8d21696296cfa9d651f9b0c953613baf018e8f2e		
Warnings:					
Information:					
2	Fee Worksheet (SB06)	fee-info.pdf	37960	no	2
			087de0580feb657b234112962999956aa26fb56f		
Warnings:					
Information:					
Total Files Size (in bytes):			79191		
<p>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.</p> <p><u>New Applications Under 35 U.S.C. 111</u> If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.</p> <p><u>National Stage of an International Application under 35 U.S.C. 371</u> If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.</p> <p><u>New International Application Filed with the USPTO as a Receiving Office</u> If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.</p>					

Electronic Acknowledgement Receipt

EFS ID:	48398568
Application Number:	17503359
International Application Number:	
Confirmation Number:	4207
Title of Invention:	Fixation Base and Guides for Dental Prosthesis Installation
First Named Inventor/Applicant Name:	Jason Watson
Customer Number:	59259
Filer:	James Anthony Italia
Filer Authorized By:	
Attorney Docket Number:	J.WAT-003
Receipt Date:	04-AUG-2023
Filing Date:	18-OCT-2021
Time Stamp:	17:05:59
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no
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File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Amendment/Request for Reconsideration-After Non-Final Rejection	NFOAResponse17503359_0803 2023.pdf	139538 ff35cf0bb25f03d31cb57d0042621260b0983fc3	no	9

Warnings:

Information:	
Total Files Size (in bytes):	139538
<p>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.</p> <p><u>New Applications Under 35 U.S.C. 111</u> If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.</p> <p><u>National Stage of an International Application under 35 U.S.C. 371</u> If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.</p> <p><u>New International Application Filed with the USPTO as a Receiving Office</u> If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.</p>	

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re: Patent Application of:
Jason Watson

Serial No. 17/503,359

Confirmation No. 4207

Filed: October 18, 2021

For: FIXATION BASE AND GUIDES FOR
DENTAL PROSTHESIS
INSTALLATION

Group Art Unit: 3772

Examiner: Aponte, Mirayda Arlene

Burbank, California
August 4, 2023

RESPONSE TO NON-FINAL OFFICE ACTION DATED AUGUST 3, 2023

Hon. Commissioner of Patents

This is a response to the Non-Final Office Action mailed August 3, 2023. In accordance with 37 CFR §1.111 and §1.112, Applicant proposes to amend the application as follows:

In accordance with 37 CFR §1.111 and §1.112, Applicant proposes to amend the application as follows:

Amendments to the Claims are reflected in the listing of claims which begins on page 3. No new matter is contained in the amendments.

Remarks begin on page 8.

Amendments to the Claims:

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

Listing of Claims:

I claim:

1. (Previously Presented) A method of installing a multi-tooth dental prosthesis in a maxillary or mandibular position in a mouth of a patient, the method comprising:

providing a dental prosthesis for the maxillary or mandibular positioning in the patient's mouth,

utilizing a fixation base to serve as a mounting jig for a plurality of other dental guides comprising a first dental guide and a second dental guide, wherein the fixation base comprises a generally arcuate shape with a front surface that has a plurality of openings through which fasteners can be passed, a rear surface, and a horizontal surface;

utilizing the first dental guide, wherein the first dental guide is a mouthpiece that attaches to the fixation base and configured and dimensioned to surround at least a portion of the teeth of the patient and is used to assure appropriate location to attach the fixation base to the maxillary or mandibular bone tissue of said patient;

installing the fixation base to the maxillary or mandibular bone tissue of said patient;

removing the mouthpiece from the installed fixation base;

removing at least one of natural teeth, dental fixtures, and obstructive mouth tissues from the work site, to expose an underside of the maxillary or mandibular bone tissue;

recontouring the bone tissue;

utilizing the second dental guide, wherein the second dental guide is a drill guide that attaches to the installed fixation base to assure appropriate location and orientation of holes to be drilled for the subsequently installed implants;

drilling the implant holes in the bone tissue using the drill guide attached to the fixation base;

installing implants in the implant holes;

installing the abutments to the implants; and,

installing said dental prosthesis to the abutments.

2. (Previously Presented) The method of claim 1, wherein installing the fixation base to maxillary or mandibular bone tissue of the patient further comprises driving fasteners through the fixation base into the bone tissue to secure the fixation base to the maxillary or mandibular bone.

3. (Original) The method of claim 1, wherein the step of recontouring the bone tissue comprises using a preformed surface on the installed fixation base to assure proper recontouring of the bone tissue.

4. (Currently Amended) The method of claim 1, wherein the step of recontouring the bone tissue comprises utilizing an additional guide apparatus, wherein the additional guide apparatus is a bone reduction guide that attaches to the installed fixation base to assure proper recontouring of the bone tissue.

5. (Previously Presented) The method of claim 14, wherein installing the abutments includes adjusting the abutments to appropriate angular orientations relative to a central axis of associated implants using pre-established indicators on the abutment guide base.

6. (Previously Presented) An apparatus for installing a dental prosthesis to maxillary or mandibular jaw bone of a patient, the apparatus comprising:

a fixation base for providing an attachment surface for a dental guide used during a dental prosthesis installation procedure, the fixation base further comprising a generally

arcuate base member with a front surface that includes a plurality of openings through which fasteners can be passed, a rear surface, and a horizontal surface; and

a first dental guide, wherein the first dental guide is a mouthpiece configured and dimensioned to surround at least a portion of the teeth of the patient and to attach to the fixation base and to be removed after the fixation base is affixed to the maxillary or mandibular bone structure of a patient.

7. (Previously Presented) The apparatus of claim 6, wherein the attachment surface of the fixation base includes:

a plurality of slots in said horizontal surface of said fixation base for accepting tabs located on the dental guide; and

bores and bosses extending radially from the front surface of said fixation base.

8. Canceled.

9. (Previously Presented) The apparatus of claim 6, wherein the attachment surface of the fixation base includes a plurality of slots in the horizontal surface of the fixation base, wherein the dental guide includes a plurality of tabs extending toward and fitting closely with the slots of the fixation base, whereby the dental guide engages the fixation base by interfit between the slots of the fixation base and the tabs of the dental guide.

10. (Previously Presented) The apparatus of claim 6, further comprising a second dental guide attachable to the fixation base, wherein the second dental guide is a drill guide for guiding the drilling of holes for implants, , wherein the drill guide includes a plurality of generally vertical bores corresponding in location to and in axial registry with intended implant sites.

11. (Previously Presented) The apparatus of claim 10, wherein the drill guide is made from a metal, metallic alloy, composite, polymer, or any other material that is sufficiently strong enough to withstand breakage during a prosthesis installation procedure and comprises a support bar, a plurality of bosses with one boss for each one of the vertical bores, the bosses located rearwardly of the support bar and attached to the support bar by arms such that voids exist between the bosses and the support bar, the voids enabling direct observation of patient anatomy and insertion of irrigation and evacuation apparatus.

12. (Previously Presented) The apparatus of claim 6, further comprising a third dental guide attachable to the fixation base, wherein the third dental guide is an abutment guide oriented to receive abutments and guide the abutments for placement against the implants

13. (Currently Amended) A method of installing a fixation base in a maxillary or mandibular position in a mouth of a patient, the method comprising:

utilizing a fixation base for providing an attachment surface for a dental guide used during a dental prosthesis installation procedure, wherein the fixation base comprises a generally arcuate shape with a front surface that has a plurality of openings through which fasteners can be passed through, a rear surface, and a horizontal surface;

utilizing a mouthpiece configured and dimensioned to surround at least a portion of the teeth of the patient;

attaching the mouthpiece to the fixation base;

installing the mouthpiece onto at least some surfaces of the maxillary or mandibular portion of the mouth of the patient to assist in positioning the fixation base appropriately prior to installing the fixation base to maxillary or mandibular bone tissue of the patient;

installing the fixation base to the maxillary or mandibular portions of the patient using fasteners through said plurality of openings in said front surface of the fixation base; and,

removing the mouthpiece from the fixation base.

14. (Previously Presented) The apparatus of claim 1, further comprising the step of:

utilizing a third dental guide, wherein the third dental guide is an abutment guide base that attaches to the installed fixation base to assure appropriate location for the installed abutments.

15. (Previously Presented) The apparatus of claim 6, wherein the fixation base is made from a metal, metallic alloy, composite, polymer, or any other material that is sufficiently strong enough to withstand breakage during a prosthesis installation procedure.

16. (Previously Presented) The apparatus of claim 6, wherein the fixation base further comprises a surface to assist in recontouring of bone tissue.

17. (Currently Amended) The apparatus of claim 6, further comprising an additional guide apparatus, wherein the additional guide apparatus is a bone reduction guide that attaches to the installed fixation base to assist in recontouring of bone tissue.

18. (Previously Presented) The apparatus of claim 6, further comprising a dental prosthesis, wherein the dental prosthesis attaches to the installed fixation base.

REMARKS

Claims 1-7 and 9-18 were presented for reconsideration as part of an amended response filed May 15, 2023. In the present Office Action:

- The Office requests clarification of the location of the amended sentence in the specification presented in the amended response filed May 15, 2023. Applicant confirms the correct location of the amended sentence in the specification is indeed page 14, line 14 as suggested by the Office.
- Claims 4, 17, and 13 were objected to because of the informalities.
- Claims 1-7, 9-10, 12-14 and 18 were rejected on the ground of nonstatutory double patenting as being unpatentable over claims 1-5 of U.S. Patent No. 11173016 B2.
- Claim 15 is rejected on the ground of nonstatutory double patenting as being unpatentable over claim 6 of U.S. Patent No. 11173016 B2 in view of Pompa (US 5320529 A).
- Claims 11, 16 and 17 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.

Applicant amended claims 4, 17 and 13 to address the cited informalities and filed an eTerminal Disclaimer to address the double patenting rejection.

Applicant respectfully requests the Office to admit the Amendments. Applicant believes the pending claims are in a condition of allowance and requests notice thereof.

Specification

The Office requests clarification of the location of the amended sentence in the specification presented in the amended response filed May 15, 2023. Applicant confirms the correct location of the amended sentence in the specification is indeed page 14, line 14 as suggested by the Office.

Claim Objections

On page 2 of the Office Action, claims 4, 17, and 13 were objected to because of the informalities.

With respect to claims 4 and 17, the Office indicated that the claims use the term “fourth guide apparatus”, but the previous claims do not describe the use of a “third guide apparatus” or a “third dental guide”. The Office suggested that the term “third dental guide” be used instead in order to maintain proper numerical sequence. However, the term “third dental guide” is used throughout the specification in in other pending claims to correspond to a different guide (abutment guide), therefore Applicant has amended claims 4 and 17 by replacing the term “fourth guide apparatus” with the term “additional guide” to correct this informality.

Regarding claim 13, Applicant has amended the claim to correct the typographical error.

Double Patenting

The Office rejected claims 1-7, 9-10, 12-14 and 18 on the ground of nonstatutory double patenting as being unpatentable over claims 1-5 of U.S. Patent No. 11173016 B2. The Office also rejected claim 15 on the ground of nonstatutory double patenting as being unpatentable over claim 6 of U.S. Patent No. 11173016 B2 in view of Pompa (US 5320529 A).

In response, Applicant submitted an eTerminal Disclaimer for U.S. Patent No. 11173016 B2 and paid the associated fee therewith. Considering this, Applicant respectfully requests removal of the double patent rejection. As such, Applicant believes that the pending claims are in condition of allowance and respectfully requests notice thereof.

Conclusion

The Office Action contains characterizations of the claims and the related art with which Applicant does not necessarily agree. Unless expressly noted otherwise, Applicant declines to subscribe to any statement or characterization in the Office Action.

In discussing the specification, claims, and drawings in this Amendment, it is to be understood that Applicant is in no way intending to limit the scope of the claims to any exemplary embodiments described in the specification or abstract and/or shown in the drawings. Rather, Applicant is entitled to have the claims interpreted broadly, to the maximum extent permitted by statute, regulation, and applicable case law.

In view of the foregoing remarks, Applicant submits that this claimed invention, as amended, is not anticipated or rendered obvious by the prior art references cited against this application. Applicant therefore respectfully requests the Examiner's reconsideration and reexamination of the application, and the timely allowance of the pending claims.

Respectfully submitted,

ITALIA IP
Attorneys for Applicant

By: /James A. Italia/
James A. Italia
Registration Number 56,549



UNITED STATES PATENT AND TRADEMARK OFFICE

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NOTICE OF ALLOWANCE AND FEE(S) DUE

59259 7590 09/27/2023
ITALIA IP
3500 WEST OLIVE AVE.
SUITE 300
BURBANK, CA 91505

EXAMINER	
APONTE, MIRAYDA ARLENE	
ART UNIT	PAPER NUMBER
3772	

DATE MAILED: 09/27/2023

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
17/503,359	10/18/2021	Jason Watson	J.WAT-003	4207

TITLE OF INVENTION: Fixation Base and Guides for Dental Prosthesis Installation

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	SMALL	\$480	\$0.00	\$0.00	\$480	12/27/2023

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.

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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.

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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)

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.

59259 7590 09/27/2023
ITALIA IP
3500 WEST OLIVE AVE.
SUITE 300
BURBANK, CA 91505

Certificate of Mailing or Transmission

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

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

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
17/503,359	10/18/2021	Jason Watson	J.WAT-003	4207

TITLE OF INVENTION: Fixation Base and Guides for Dental Prosthesis Installation

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	SMALL	\$480	\$0.00	\$0.00	\$480	12/27/2023

EXAMINER	ART UNIT	CLASS-SUBCLASS
APONTE, MIRAYDA ARLENE	3772	433-173000

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,

1 _____

(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.

2 _____

3 _____

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

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

(A) NAME OF ASSIGNEE

(B) RESIDENCE: (CITY and STATE OR COUNTRY)

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

4a. Fees submitted: ☐ Issue Fee ☐ Publication Fee (if required)

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

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

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

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

☐ Applicant certifying micro entity status. See 37 CFR 1.29

☐ Applicant asserting small entity status. See 37 CFR 1.27

☐ Applicant changing to regular undiscounted fee status.

NOTE: Absent a valid certification of Micro Entity Status (see forms PTO/SB/15A and 15B), issue fee payment in the micro entity amount will not be accepted at the risk of application abandonment.

NOTE: If the application was previously under micro entity status, checking this box will be taken to be a notification of loss of entitlement to micro entity status.

NOTE: Checking this box will be taken to be a notification of loss of entitlement to small or micro entity status, as applicable.

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

Authorized Signature _____

Date _____

Typed or printed name _____

Registration No. _____



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
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www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
17/503,359	10/18/2021	Jason Watson	J.WAT-003	4207
59259	7590	09/27/2023	EXAMINER	
ITALIA IP 3500 WEST OLIVE AVE. SUITE 300 BURBANK, CA 91505			APONTE, MIRAYDA ARLENE	
			ART UNIT	PAPER NUMBER
			3772	

DATE MAILED: 09/27/2023

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

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

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

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

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

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

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

Privacy Act Statement

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

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

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

Notice of Allowability	Application No. 17/503,359	Applicant(s) Watson, Jason	
	Examiner MIRAYDA A APONTE	Art Unit 3772	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 4 August 2023.
☐ 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 1-7 and 9-18. 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 _____.
--	--

/MIRAYDA A APONTE/ Examiner, Art Unit 3772	/RALPH A LEWIS/ Primary Examiner, Art Unit 3772
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DETAILED ACTION

Allowable Subject Matter

1. **Claims 1-7 and 9-18** are allowed.
2. The following is an examiner's statement of reasons for allowance:
 - a. **Regarding claim 1**, the added language in the claim is not found in the prior art of Llop'126 and Llop'881 used in the Office Action of 9 February 2023.
 - b. Therefore, the art of record does not teach or render obvious, either alone or in combination, a method of installing a multi-tooth dental prosthesis including the steps of utilizing the first dental guide, wherein the first dental guide is a mouthpiece that attaches to the fixation base, and specifically that the first dental guide is configured and dimensioned to surround at least a portion of the teeth of the patient_and is used to assure appropriate location to attach the fixation base to the maxillary or mandibular bone tissue of said patient; installing the fixation base to the maxillary or mandibular bone tissue of the patient; and removing the mouth piece from the installed fixation base; and removing at least one of the natural teeth dental fixtures, and obstructive mouth tissues form the work site in combination with the elements set forth in the claim.
 - c. **Regarding claim 6**, the added language in the claim is not found in the prior art of Llop'126 and Llop'881 used in the OA of 9 February 2023.
 - d. Therefore, the art of record does not teach or render obvious, either alone or in combination, an apparatus for installing a dental prosthesis including a first dental guide configured and dimensioned to surround at least a portion of the teeth of the patient and to attach to the fixation base and to be removed after the fixation

base is affixed to the maxillary or mandibular bone structure of a patient in combination with the elements set forth in the claim.

e. **Regarding claim 13**, the added language in the claim is not found in the prior art of Llop'126 and Llop'881 used in the OA of 9 February 2023.

f. Therefore, the art of record does not teach or render obvious, either alone or in combination, a method of installing a fixation base in a maxillary or mandibular position including the steps of installing the mouthpiece onto at least some surfaces of the maxillary or mandibular portion of the mouth of the patient to assist in positioning the fixation base appropriately prior to installing the fixation base to maxillary or mandibular bone tissue of the patient; installing the fixation base to the maxillary or mandibular portions of the patient using fasteners through said plurality of openings in said front surface of the fixation base; and, removing the mouthpiece from the fixation base in combination with the elements set forth in the claim.

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

Conclusion

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to MIRAYDA ARLENE APONTE whose telephone number is (571)270-1933. The examiner can normally be reached M-F 8-5.

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

6. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Cris Rodriguez can be reached on 571-272-4964. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

7. Information regarding the status of published or unpublished applications may be obtained from Patent Center. Unpublished application information in Patent Center is available to registered users. To file and manage patent submissions in Patent Center, visit: <https://patentcenter.uspto.gov>. Visit <https://www.uspto.gov/patents/apply/patent-center> for more information about Patent Center and <https://www.uspto.gov/patents/docx> for information about filing in DOCX format. For additional questions, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/MIRAYDA A APONTE/
Examiner, Art Unit 3772

/RALPH A LEWIS/
Primary Examiner, Art Unit 3772

Issue Classification 	Application/Control No. 17/503,359	Applicant(s)/Patent Under Reexamination Watson, Jason
	Examiner MIRAYDA A APONTE	Art Unit 3772

CPC						
Symbol					Type	Version
A61C	/	8	/	0053	F	2013-01-01
A61C	/	8	/	0087	I	2013-01-01
A61C	/	8	/	0068	I	2013-01-01
A61C	/	13	/	225	I	2013-01-01
A61C	/	8	/	0095	I	2013-01-01
A61C	/	1	/	084	I	2013-01-01
A61C	/	8	/	0048	I	2013-01-01
A61C	/	8	/	0089	A	2013-01-01
A61C	/	13	/	0004	A	2013-01-01
A61C	/	8	/	0074	A	2013-01-01
A61C	/	8	/	0051	A	2013-01-01
A61C	/	13	/	0025	A	2013-01-01
A61C	/	3	/	02	A	2013-01-01
A61C	/	13	/	0006	A	2013-01-01

CPC Combination Sets					
Symbol				Type	Set

/MIRAYDA A APONTE/ Examiner, Art Unit 3772 (Assistant Examiner)	14 September 2023 (Date)	Total Claims Allowed: 17	
/RALPH A LEWIS/ Primary Examiner, Art Unit 3772 (Primary Examiner)	20 September 2023 (Date)	O.G. Print Claim(s) 1	O.G. Print Figure 2

Issue Classification 	Application/Control No. 17/503,359	Applicant(s)/Patent Under Reexamination Watson, Jason
	Examiner MIRAYDA A APONTE	Art Unit 3772

INTERNATIONAL CLASSIFICATION			
CLAIMED			
A61C8/00	/	8	/ 00
A61C13/225	/	13	/ 225
A61C1/08	/	1	/ 08

NON-CLAIMED			
A61C13/00	/	13	/ 00
A61C13/07	/	13	/ 07
A61C3/02	/	3	/ 02

US ORIGINAL CLASSIFICATION	
CLASS	SUBCLASS

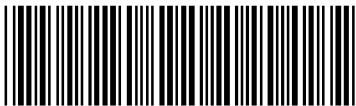
CROSS REFERENCES(S)						
CLASS	SUBCLASS (ONE SUBCLASS PER BLOCK)					

/MIRAYDA A APONTE/ Examiner, Art Unit 3772 (Assistant Examiner)	14 September 2023 (Date)	Total Claims Allowed: 17	
/RALPH A LEWIS/ Primary Examiner, Art Unit 3772 (Primary Examiner)	20 September 2023 (Date)	O.G. Print Claim(s) 1	O.G. Print Figure 2

Issue Classification 	Application/Control No. 17/503,359	Applicant(s)/Patent Under Reexamination Watson, Jason
	Examiner MIRAYDA A APONTE	Art Unit 3772

☐ 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	1	10	10												
2	2	11	11												
3	3	12	12												
4	4	17	13												
6	5	5	14												
7	6	13	15												
8	7	14	16												
	8	15	17												
9	9	16	18												

/MIRAYDA A APONTE/ Examiner, Art Unit 3772 (Assistant Examiner)	14 September 2023 (Date)	Total Claims Allowed: 17	
/RALPH A LEWIS/ Primary Examiner, Art Unit 3772 (Primary Examiner)	20 September 2023 (Date)	O.G. Print Claim(s) 1	O.G. Print Figure 2

<i>Search Notes</i> 	Application/Control No. 17/503,359	Applicant(s)/Patent Under Reexamination Watson, Jason
	Examiner MIRAYDA A APONTE	Art Unit 3772

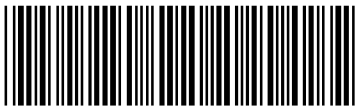
CPC - Searched*		
Symbol	Date	Examiner
A61C8/0053,0048,0068,0087,,0095,0051,,0074,0089,005,0048,,0093	02/01/2023	MA
A61C1/084,082,08	02/01/2023	MA
A61C3/02	02/01/2023	MA
A61C13/0004,0006,0025,0003,0001,00	02/01/2023	MA
Updated search	07/24/2023	MA
Updated search	09/14/2023	MA

CPC Combination Sets - Searched*		
Symbol	Date	Examiner

US Classification - Searched*			
Class	Subclass	Date	Examiner
433	173-176,201.1	02/01/2023	MA
	Updated search	07/24/2023	MA
433	72	09/14/2023	MA

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

/MIRAYDA A APONTE/ Examiner, Art Unit 3772	
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<i>Search Notes</i> 	Application/Control No. 17/503,359	Applicant(s)/Patent Under Reexamination Watson, Jason
	Examiner MIRAYDA A APONTE	Art Unit 3772

Search Notes		
Search Notes	Date	Examiner
PE2ESearch	02/01/2023	MA
Word search on (guide jig) ADJ (surgical drill abutment teeth tooth) AND implant AND abutment, (llop).inv. AND dental AND guide, (llop).inv. AND dental AND guide AND cutting ADJ bone, dental AND guide AND cutting ADJ bone, shave ADJ bone, cutting ADJ bone, (dentex).as.	02/01/2023	MA
Word search on dental AND surgical AND guide AND (base jig), dental AND surgical AND guide AND (base jig) AND drill AND (position location), dental AND surgical AND guide AND (base jig) AND drill AND (position location) WITH (adjacent next contact*), dental AND surgical AND guide AND (base jig) AND drill AND (position location) WITH (adjacent next contact*) WITH oppos* WITH (teeth tooth jaw mandible maxi*)	07/24/2023	MA
Word search on surgical WITH guide, surgical ADJ guide WITH (tooth teeth)	09/14/2023	MA

Interference Search			
US Class/CPC Symbol	US Subclass/CPC Group	Date	Examiner
A61C13	0003,225,0004,0006	09/14/2023	MA
A61C8	0093 0028 005 0053 0048 0068 0087 0095 0051 0074 0089	09/14/2023	MA
A61C1	08,082,084	09/14/2023	MA

/MIRAYDA A APONTE/ Examiner, Art Unit 3772	
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Bibliographic Data

Application No: 17/503,359

Foreign Priority claimed: ☐ Yes ☒ No

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

Verified and Acknowledged: /MIRAYDA A APONTE/

Examiner's Signature

Initials

Title: Fixation Base and Guides for Dental Prosthesis Installation

FILING or 371(c) DATE	CLASS	GROUP ART UNIT	ATTORNEY DOCKET NO.
10/18/2021	433	3772	J.WAT-003
RULE			

APPLICANTS

INVENTORS

Jason Watson, La Canada, CA, UNITED STATES

CONTINUING DATA

This application is a CON of 15984309 05/18/2018 PAT 11173016

15984309 has PRO of 62508377 05/18/2017

FOREIGN APPLICATIONS

IF REQUIRED, FOREIGN LICENSE GRANTED**

10/26/2021

** SMALL ENTITY **

STATE OR COUNTRY

UNITED STATES

ADDRESS

ITALIA IP
3500 WEST OLIVE AVE.
SUITE 300
BURBANK, CA 91505
UNITED STATES

FILING FEE RECEIVED

\$830

PE2E SEARCH - Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	British Equivalents	Time Stamp
L95	88150	(A61C13/0003 OR A61C8/0093 OR A61C1/08 OR A61C1/082 OR A61C8/0028 OR A61C8/005 OR A61C8/0053 OR A61C1/084 OR A61C8/0048 OR A61C8/0068 OR A61C8/0087 OR A61C8/0095 OR A61C13/225 OR A61C3/02 OR A61C8/0051 OR A61C8/0074 OR A61C8/0089 OR A61C13/0004 OR A61C13/0006 OR A61C13/0025 OR a61c17/176 OR a61c13/00).cpc. OR (433/72).ccls.	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, CA, CH, CN, DD, DE, EA, EP, ES, FR, GB, JP, KR, OA, RU, SU, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2023/09/14 12:56 PM
L96	2993	L95 AND surgical WITH guide	(US-PGPUB; USPAT; USOCR; FIT (CN, FR, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2023/09/14 12:56 PM
L97	663	L96 AND surgical ADJ guide WITH (tooth teeth)	(US-PGPUB; USPAT; USOCR; FIT (CN, FR, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2023/09/14 12:57 PM

PE2E SEARCH - Search History (Interference)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	British Equivalents	Time Stamp
N4	11039	(A61C13/0003 OR A61C8/0093 OR A61C1/08 OR A61C1/082 OR A61C8/0028 OR A61C8/005 OR A61C8/0053 OR A61C1/084 OR A61C8/0048 OR A61C8/0068 OR A61C8/0087 OR A61C8/0095 OR A61C13/225 OR A61C3/02 OR	(US-PGPUB; USPAT)	OR	ON	ON	2023/09/14 02:47 PM

N5	353	A61C8/0051 OR A61C8/0074 OR A61C8/0089 OR A61C13/0004 OR A61C13/0006 OR A61C13/0025 OR a61c17/176 OR a61c13/00).cpc. N4 AND surgical ADJ guide WITH (tooth teeth)	(US-PGPUB; USPAT)	OR	ON	ON	2023/09/14 02:47 PM
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PART B - FEE(S) TRANSMITTAL

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

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

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

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications. **Because electronic patent issuance may occur shortly after issue fee payment, any desired continuing application should preferably be filed prior to payment of this issue fee in order not to jeopardize copendency.**

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

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.

59259 7590 09/27/2023
ITALIA IP
3500 WEST OLIVE AVE.
SUITE 300
BURBANK, CA 91505

Certificate of Mailing or Transmission

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

James A. Italia	(Typed or printed name)
	(Signature)
09/27/2023	(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
17/503,359	10/18/2021	Jason Watson	J.WAT-003	4207

TITLE OF INVENTION: Fixation Base and Guides for Dental Prosthesis Installation

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	SMALL	\$480	\$0.00	\$0.00	\$480	12/27/2023

EXAMINER	ART UNIT	CLASS-SUBCLASS
APONTE, MIRAYDA ARLENE	3772	433-173000

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 James A. Italia
2 Italia IP
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)

Watson Guide IP LLC

Pasadena, CA

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

4a. Fees submitted: ☒ Issue Fee ☐ Publication Fee (if required)

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

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

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

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

☐ Applicant certifying micro entity status. See 37 CFR 1.29

☐ Applicant asserting small entity status. See 37 CFR 1.27

☐ Applicant changing to regular undiscounted fee status.

NOTE: Absent a valid certification of Micro Entity Status (see forms PTO/SB/15A and 15B), issue fee payment in the micro entity amount will not be accepted at the risk of application abandonment.

NOTE: If the application was previously under micro entity status, checking this box will be taken to be a notification of loss of entitlement to micro entity status.

NOTE: Checking this box will be taken to be a notification of loss of entitlement to small or micro entity status, as applicable.

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

Authorized Signature

Date 09/27/2023

Typed or printed name James A. Italia

Registration No. 56549

Electronic Patent Application Fee Transmittal

Application Number:	17503359			
Filing Date:	18-Oct-2021			
Title of Invention:	Fixation Base and Guides for Dental Prosthesis Installation			
First Named Inventor/Applicant Name:	Jason Watson			
Filer:	James Anthony Italia			
Attorney Docket Number:	J.WAT-003			
Filed as Small Entity				
Filing Fees for Utility under 35 USC 111(a)				
Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Basic Filing:				
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
UTILITY APPL ISSUE FEE	2501	1	480	480

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Extension-of-Time:				
Miscellaneous:				
Total in USD (\$)				480

Electronic Acknowledgement Receipt

EFS ID:	48651645
Application Number:	17503359
International Application Number:	
Confirmation Number:	4207
Title of Invention:	Fixation Base and Guides for Dental Prosthesis Installation
First Named Inventor/Applicant Name:	Jason Watson
Customer Number:	59259
Filer:	James Anthony Italia
Filer Authorized By:	
Attorney Docket Number:	J.WAT-003
Receipt Date:	27-SEP-2023
Filing Date:	18-OCT-2021
Time Stamp:	22:39:36
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	CARD
Payment was successfully received in RAM	\$480
RAM confirmation Number	E20239QM40056610
Deposit Account	
Authorized User	

The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows:

File Listing:					
Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Issue Fee Payment (PTO-85B)	IssuFeeTrans17503359.pdf	462836	no	1
			82cc4015f721172fdad70e4591dfc99740f2b3cd		
Warnings:					
Information:					
2	Fee Worksheet (SB06)	fee-info.pdf	37753	no	2
			bc0c9f9dbc9fc5c7608e09dc49690e57fe883a0f		
Warnings:					
Information:					
Total Files Size (in bytes):			500589		
<p>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.</p> <p><u>New Applications Under 35 U.S.C. 111</u> If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.</p> <p><u>National Stage of an International Application under 35 U.S.C. 371</u> If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.</p> <p><u>New International Application Filed with the USPTO as a Receiving Office</u> If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.</p>					



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www.uspto.gov

APPLICATION NO.	ISSUE DATE	PATENT NO.	ATTORNEY DOCKET NO.	CONFIRMATION NO.
17/503,359	11/07/2023	11806209	J.WAT-003	4207

59259 7590 10/18/2023
ITALIA IP
3500 WEST OLIVE AVE.
SUITE 300
BURBANK, CA 91505

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 11 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):

Jason Watson, La Canada, CA;

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

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
17/503,359	10/18/2021	Jason Watson	J.WAT-003	4207
59259	7590	11/07/2023		
ITALIA IP 3500 WEST OLIVE AVE. SUITE 300 BURBANK, CA 91505			EXAMINER APONTE, MIRAYDA ARLENE	
			ART UNIT	PAPER NUMBER
			3772	
			NOTIFICATION DATE	DELIVERY MODE
			11/07/2023	ELECTRONIC

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

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

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

ITALIA@ITALIAIP.COM
jitalia@hotmail.com
pto@thepatentoffice.com



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APPLICATION NO.	ISSUE DATE	PATENT NO.
17/503,359	07-Nov-2023	11806209

ITALIA IP
3500 WEST OLIVE AVE.
BURBANK, CA 91505

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>