

1) Family number: 62186391 (US2019038378A)

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Title: METHOD OF CREATING A DENTAL IMPLANT DRILL-GUIDE

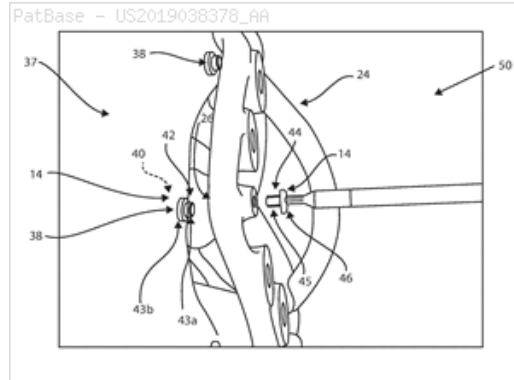
Abstract: A method of creating a dental implant drill-guide is provided, comprising the steps of using mucosal impression data of an edentulous maxillary or mandibular arch having a plurality of orthodontic screws inserted into the osseous tissue thereof and which extend through the gingival mucosa, along with image data of the arch to determine dental implant position data for the insertion of one or more dental implants into the edentulous maxillary or mandibular arch relative to the positions of the plurality of orthodontic screws. It is then possible to create a dental implant drill-guide to guide the drilling of dental-implant cavities in the edentulous maxillary or mandibular arch, and subsequently create a dental implant drill-guide from the dental implant drill-guide parameter data, the dental implant drill-guide having a plurality of orthodontic screw-seats which are engageable with the said plurality of orthodontic screws.

Classifications:

International (IPC 8-9): A61B34/10 A61B6/14 A61C1/08 A61C8/00 A61C9/00 (Advanced/Invention);

A61C8/00 (Advanced/Non-invention)

CPC: A61C8/0042 A61C8/0096 A61B34/10 A61C1/085 A61C8/009 A61B2034/108 A61C9/004 A61B6/14 A61B6/032 A61C8/0001 A61C1/084 A61B6/4085 A61C1/082

**Family:**

Publication number	Publication date	Application number	Application date
AU2017217320 AA	20180913	AU20170217320	20170202
CN108697486 A	20181023	CN201780011246	20170202
EP3405135 A1	20181128	EP20170704529	20170202
GB201602598 A0	20160330	GB20160002598	20160213
GB201613924 A0	20160928	GB20160013924	20160815
GB201616818 A0	20161116	GB20160016818	20160815
GB2538440 A1	20161116	GB20160013924	20160815
GB2538440 B2	20170621	GB20160013924	20160815
GB2542031 A1	20170308	GB20160016818	20160815
GB2542031 B2	20180103	GB20160016818	20160815
JP2019504719 T2	20190221	JP20180542746T	20170202
KR20180110006 A	20181008	KR20187025312	20170202
US2019038378 AA	20190207	US20170076320	20170202
WO17137724 A1	20170817	WO2017GB50251	20170202

Priority:

GB20160002598 20160213 GB20160013924 20160815 WO2017GB50251 20170202

Probable Assignee: NULTY ADAM B

Assignee(s): (std): ADAM BRIAN NULTY ; NULTY ADAM ; NULTY ADAM B ; NULTY ADAM BRIAN

Inventor(s): (std): NULTY ADAM BRIAN ; ADAM BRIAN NULTY

Agent(s): ALDER IP PTY LTD; DOHERTY WILLIAM; KIYOSHI KURIHARA; HOCKING ADRIAN ET AL

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DJ DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KH KM KN KP KR KW KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

2) Family number: 43873980 (US2009263764A)

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Title: METHOD FOR PRE-OPERATIVE VISUALIZATION OF INSTRUMENTATION USED WITH A SURGICAL GUIDE FOR DENTAL IMPLANT PLACEMENT

Abstract: The invention relates to manufacturing a surgical guide to be placed in a patient's mouth. The patient's mouth is scanned to obtain surgical-region scan data at a region where an implant is to be located. The patient's mouth is also scanned in the opened position to acquire dental conditions opposite from the surgical region so as to obtain opposing-condition scan data. A virtual model is developed using the surgical-region scan data and the opposing-condition scan data. Using the virtual model, a surgical plan is developed that includes the location of the implant to be installed in the patient. A virtual surgical guide is also developed based on the surgical plan. The dimensions of instrumentation to be used with the surgical guide are checked to ensure they will fit within the mouth by use of the opposing-condition scan data. After checking, final surgical-guide manufacturing information is obtained for manufacturing the surgical guide.

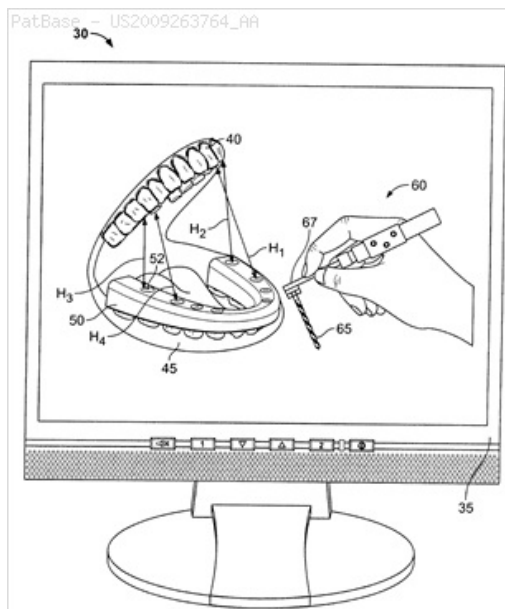
Classifications:

International (IPC 8-9): A61B6/03 A61B6/14 A61C1/08 A61C13/00 A61C19/02 A61C5/00 A61C8/00 A61C9/00 G06F17/50 G06F19/00

G06G7/60 (Advanced/Invention);

A61C13/00 (Advanced/Non-invention);

A61C13/00 A61C8/00 (Core/Invention)
CPC: A61B6/14 A61C9/0006 A61C8/0089 A61C19/02 A61C9/004
A61B6/032 A61C1/084
European: A61C1/08F1 A61C19/02 A61C8/00T
US: 1/1 433/173 433/173P 433/214 433/215 433/215P 700/98
700/98S 703/11



Family:

Publication number	Publication date	Application number	Application date
DE602009035266 D1	20160128	DE200960035266T	20090416
DE602009049459 D1	20171221	DE200960049459T	20090416
EP2276416 A1	20110126	EP20090755557	20090416
EP2276416 A4	20140806	EP20090755557	20090416
EP2276416 B1	20151216	EP20090755557	20090416
EP3000430 A1	20160330	EP20150191017	20090416
EP3000430 B1	20171115	EP20150191017	20090416
EP3415112 A1	20181219	EP20170201752	20090416
ES2559402 T3	20160212	ES20090755557T	20090416
US2009263764 AA	20091022	US20090425202	20090416
US2011269104 AA	20111103	US20110179609	20110711
US2012323546 AA	20121220	US20120526717	20120619
US2013244205 AA	20130919	US20130786957	20130306
US2015037756 AA	20150205	US20140516089	20141016
US2018085072 AA	20180329	US20170720968	20170929
US8011927 BB	20110906	US20090425202	20090416
US8221121 BB	20120717	US20110179609	20110711
US8414296 BB	20130409	US20120526717	20120619
US8888488 BB	20141118	US20130786957	20130306
US9795345 BB	20171024	US20140516089	20141016
WO09146195 A1	20091203	WO2009US40785	20090416

Priority:

US20080124331P	20080416	EP20090755557	20090416	EP20150191017	20090416
US20090425202	20090416	WO2009US40785	20090416	US20110179609	20110711
US20120526717	20120619	US20130786957	20130306	US20140516089	20141016
EP20150191017	20151022	US20170720968	20170929		

Probable Assignee: BIOMET 3I LLC

Assignee(s): (std): SUTTIN ZACHARY B ; BIOMET 3I LLC ; BERCKMANS BRUCE ; BERCKMANS III BRUCE

Assignee(s): BIOMET ; BANK OF AMERICA NA ; BANK OF AMERICA NA ADMINISTRATIVE AGENT FOR SECURE ; BANK OF AMERICA NA ADMINISTRATIVE AGENT FOR SECURED PARTIES AS ; BIOELECTRON INC ; BIOMET BIOLOGICS LLC ; BIOMET EUROPE LTD ; BIOMET FAIR LAWN LLC ; BIOMET FLORIDA SERVICES LLC ; BIOMET HOLDINGS LTD ; BIOMET 3I LLC PALM BEACH GARDENS ; BIOMET INC ; BIOMET INT LTD ; BIOMET LEASING INC ; BIOMET MFG CORP ; BIOMET MICROFIXATION LLC ; BIOMET ORTHOPEDICS LLC ; BIOMET SPORTS MEDICINE LLC ; BIOMET TRAVEL INC ; CROSS MEDICAL PRODUCTS LLC ; EBI HOLDINGS LLC ; EBI LLC ; EBI MEDICAL SYSTEMS LLC ; ELECTR BIOLOGY LLC ; IMPLANT INNOVATIONS HOLDINGS LLC ; INTERPORE CROSS INT LLC ; INTERPORE SPINE LTD ; KIRSCHNER MEDICAL CORP ; LVB ACQUISITION INC

Inventor(s): (std): SUTTIN ZACHARY B ; BERCKMANS III BRUCE ; BERCKMANS BRUCE

Inventor(s): BERCKMANS BRUCE PALM BEACH GARDENS ; SUTTIN ZACHARY B JUPITER

Agent(s): VENNER SHIPLEY LLP CAMBRIDGE; SCHWARZE HOLM; GUARDIAN IP CONSULTING I S; MAYS JULIE; DE ELZABURU ALBERTO; NIXON PEABODY LLP; SCHWEGMAN LUNDBERG AND WOESSNER PA; BURNHAM DANIEL J

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

3) Family number: 49151469 (US2011159455A)

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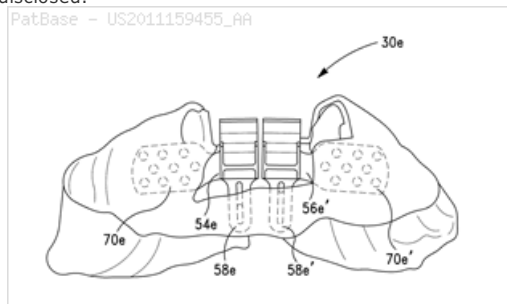
Title: SURGICAL GUIDE AND METHOD

Abstract: A method for preparing a surgical guide for positioning of a dental implementation. The method includes

positioning a positioning device relative to a model jawbone, translating the positioning device in a BL direction, adjusting a BL angle of the positioning device about a BL pivot axis corresponding to a desired position of a top of the dental implementation, and fixing the BL position, BL angle, and z-height of the positioning device. A mounting assembly mounts to the positioning device and includes a removable rotation block with a guide hole. The mounting assembly is movable in the MD direction while the BL position is fixed. A template fixes the mounting assembly for transferring the positioning information to a patient's mouth. Various aspects of the design process can be performed on a computer. The guide and a method of using the guide to perform an implant procedure are also disclosed.

Classifications:

International (IPC 8-9): A61C1/08 A61C11/08 A61C13/10 A61C13/36 A61C3/02 A61C8/00 G06F17/50 (Advanced/Invention)
CPC: G06F17/5086 A61C8/009 A61C1/084 A61C8/0089 B33Y80/00
European: A61C1/08F1 A61C8/00T K61C8/00T1
US: 1/1 433/173 433/173S 433/196 433/196S 433/60 433/60P 433/75 606/96 700/98 700/98S



Family:

Publication number	Publication date	Application number	Application date
EP2515787 A1	20121031	EP20100843545	20101221
EP2515787 A4	20130619	EP20100843545	20101221
IN01790KN2012 A	20140221	IN2012KNO1790	20120718
US2011159455 AA	20110630	US20100975104	20101221
US2014244016 AA	20140828	US20140270138	20140505
US8714975 BB	20140506	US20100975104	20101221
US9519749 BB	20161213	US20140270138	20140505
WO11087794 A1	20110721	WO2010US61608	20101221

Priority:

US20090289310P 20091222 US20100349779P 20100528 US20100975104 20101221
WO2010US61608 20101221 US20140270138 20140505

Probable Assignee: STUMPEL LAMBERT J

Assignee(s): (std): STUMPEL LAMBERT J

Inventor(s): (std): STUMPEL LAMBERT J

Inventor(s): STUMPEL LAMBERT

Agent(s): O NEILL MICHELLE; VICTOR E; MORGAN LEWIS AND BOCKIUS LLP; SANTA FE IP LLC; JOHNSON VICTOR E ET AL

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PE PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

4) Family number: 43123115 (US2009092948A)

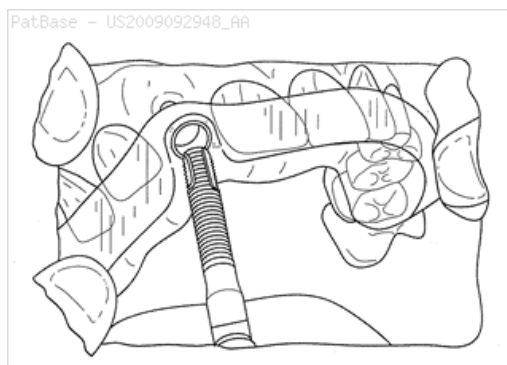
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Title: ASSISTED DENTAL IMPLANT TREATMENT

Abstract: Embodiments of systems and methods for planning and/or delivering an oral or facial endosseous implantation in a patient are described. In certain embodiments, systems according to the invention include a processing module; a bone imaging module that communicates bone data about the patient to the processing module; a surface imaging module that communicates surface data about the patient to the processing module; and the processing module processes the bone data and the surface data into an output that includes three-dimensional (3-D) representation data indicative of at least one of an oral structure and a facial structure of the patient. In certain embodiments, a system includes a fabrication module that produces a physical model based on the 3-D representation data and indicating a planned location of an endosseous implant. In certain embodiments, a system includes a surgical module that guides implantation of an endosseous implant based on the 3-D representation data.

Classifications:

International (IPC 8-9): A61B1/24 A61B6/03 A61B6/14 A61B8/08 A61C1/08 A61C13/00 A61C13/34 A61C19/04 A61C5/00 A61C8/00 A61C9/00 G05B19/4099 G06F17/50 (Advanced/Invention); A61C9/00 (Advanced/Non-invention); A61C8/00 (Core/Invention)
CPC: A61C9/0053 A61C9/0086 A61C13/34 A61B6/14 A61B6/03 A61B1/24 G05B19/4099 G05B2219/49023 A61C1/084 A61C9/0046 A61B8/0875 A61C13/0004
European: A61C1/08F1 K61C9/00E
US: 1/1 433/173 433/173P 433/173S 433/213 433/213S 433/215 433/215P 433/215S 433/29 433/29P 433/72 433/72S 433/75 700/118 700/98 700/98P



Family:

Publication number	Publication date	Application number	Application date
EP2575669 A1	20130410	EP20110798572	20110527
EP2575669 A4	20160120	EP20110798572	20110527
US2009092948 AA	20090409	US20080245697	20081003
US2010255445 AA	20101007	US20100789359	20100527
US2011245951 AA	20111006	US20110096608	20110428

US2011256508 AA	20111020	US20110168285	20110624
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US2016157970 AA	20160609	US20160045096	20160216
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US9901417 BB	20180227	US20120356922	20120124
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WO11162911 A1	20111229	WO2011US38430	20110527
WO11162911 A9	20120216	WO2011US38430	20110527
WO12149101 A1	20121101	WO2012US35110	20120426

Priority:

US20070977368P 20071003 US20080245697 20081003 US20100789359 20100527
US20110096608 20110428 WO2011US38430 20110527 US20110168285 20110624
US20120356922 20120124 US20160045096 20160216

Probable Assignee: CYBER IMPLANTS

Assignee(s): (std): CYBER IMPLANTS LLC ; GANTES BERNARD

Assignee(s): CYBER IMPLANTS

Inventor(s): (std): GANTES BERNARD

Agent(s): HOFFMANN EITL; MCDERMOTT WILL AND EMERY LLP; RUTAN AND TUCKER LLP; HANI Z; HILL JAMES W; SAYED HANI Z

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PE PG PH PL PT QA RO RS RU RW SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

5) Family number: 45376605 (US2010151411A)

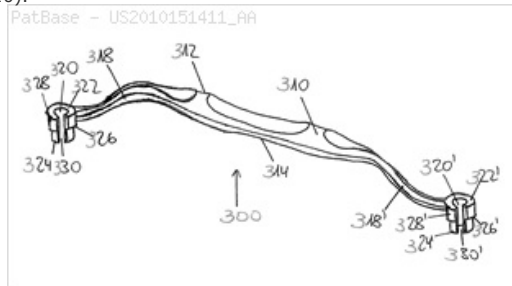
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Title: DRILL GUIDE

Abstract: Drill guide (1) for use in the dental field, comprising a grip (10), a bearing surface intended to bear at least partially on a template (50) or a drill sleeve (55), and at least one guide sleeve (20) having a longitudinal slit (30). The grip (10) has a top face and an underside. The at least one guide sleeve (20) is essentially hollow and cylindrical, has an upper end and a lower end, and protrudes from the underside of the grip (10).

Classifications:

International (IPC 8-9): A61C1/08 A61C3/00 A61C3/02 A61C3/04 A61C8/00 A61C8/02 (Advanced/Invention); A61C1/08 A61C3/00 A61C3/02 A61C8/00 A61C8/02 (Core/Invention); A61C (Subclass/Invention)
CPC: A61C1/084 A61C3/02
European: A61C1/08F1
US: 433/75 433/75P 606/96



Family:

Publication number	Publication date	Application number	Application date
AU2009245841 AA	20100701	AU20090245841	20091208
BRPI0905136 A2	20101103	BR2009PI05136	20091215
CA2686191 AA	20100615	CA20092686191	20091120
CN101744662 A	20100623	CN200910260486	20091215
CN101744662 B	20150107	CN200910260486	20091215
EP2196162 A1	20100616	EP20080021712	20081215
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JP2010137050 A2	20100624	JP20090268694	20091126
JP2015024161 A2	20150205	JP20140200939	20140930
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KR101663045 B1	20161006	KR20090124255	20091214
KR101663047 B1	20161006	KR20160091808	20160720
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KR20160091297 A	20160802	KR20160091808	20160720
MX2009012921 A1	20100930	MX20090012921	20091127
US2010151411 AA	20100617	US20090636944	20091214
US8708699 BB	20140429	US20090636944	20091214
ZA200908557 A	20101229	ZA20090008557	20091202

Priority:

EP20080021712 20081215 JP20090268694 20091126 KR20160091808 20160720

Probable Assignee: STRAUMANN HOLDING AG

Assignee(s): (std): KUEHNE STEFFEN ; STRAUMANN HOLDING AG ; STREFF PATRICK ; SUTER EDMUND

Inventor(s): (std): PATRICK STREFF ; STEFFEN KUEHNE ; EDMUND SUTER ; SUTER EDMUND ; STREFF PATRICK ; KUEHNE STEFFEN

Agent(s): SPRUSON AND FERGUSON; SCHAAD BALASS MENZL AND PARTNER AG; MIYAZAKI YOSHIO; TAGAMI AKIO; TAKA MASAHIRO; HANABUSA TSUNEO; RISSMAN HENDRICKS AND OLIVERIO LLP; NOVAK DRUCE CONNOLLY BOVE AND QUIGG LLP

Designated states: AL AT BA BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL

6) Family number: 53782876 (US2016081765A)

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Title: A PRECISION SURICAL GUIDANCE TOOL SYSTEM AND DELIVERY METHOD FOR IMPLEMENTING DENTAL IMPLANTS

Abstract: A system, apparatus, device, tools, kit and method is provided for the preparation of the jawbone and insertion of dental implants. The apparatus includes a universal and reusable clamping device and removable components for the clamp which allow for precision surgical preparation and implantation of dental implants into the jawbone. According to some embodiments, an apparatus is provided that includes a platform; one or more frames connected to the platform, wherein the frames include a clamp arm that extend to opposing sides of the bone; and one or more fixation cleats on each arm; wherein the apparatus includes one or more features for positioning the platform, for changing a position of the platform, for changing an angle of a component of the platform or any combination thereof, following the securing of the clamp arms to the bone and prior to the procedure.

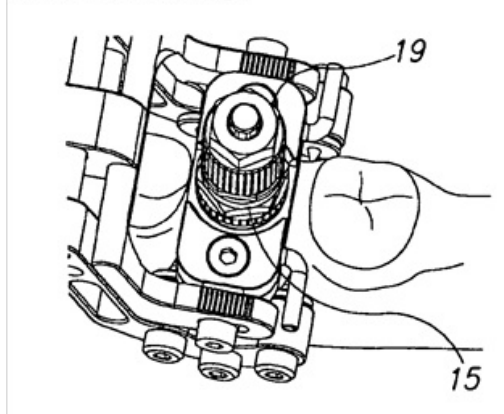
Classifications:**International (IPC 8-9):** A61C A61C1/08 A61C13/38 A61C19/00

A61C8/00 (Advanced/Invention);

A61C (Subclass/Invention)

CPC: A61C1/084 A61C8/0089**US:** 433/75

PatBase - US2016081765_AA

**Family:**

Publication number	Publication date	Application number	Application date
CA2907546 AA	20150917	CA20142907546	20140314
EP2976038 A2	20160127	EP20140769386	20140314
EP2976038 A4	20161109	EP20140769386	20140314
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GB2512067 B2	20150826	GB20130004950	20130318
IL241727 A0	20151130	IL20140241727	20140314
JP2016517334 T2	20160616	JP20160503752T	20140314
SG11201507754S A1	20151029	SG20151107754	20140314
US2016081765 AA	20160324	US20140778335	20140314
WO14147537 A2	20140925	WO2014IB59833	20140314
WO14147537 A3	20150917	WO2014IB59833	20140314

Priority:

GB20130004950 20130318 WO2014IB59833 20140314

Probable Assignee: GST LTD**Assignee(s):** (std): GST LTD ; SANDERS DANIEL ; SPECTOR BEN ZION**Assignee(s):** BEN ZION SPECTOR ; DANIEL SANDERS**Inventor(s):** (std): SPECTOR BEN ZION ; SANDERS DANIEL**Inventor(s):** DANIEL SANDERS ; BEN ZION SPECTOR**Agent(s):** HICKS INTELLECTUAL PROPERTY LAW; FRESH IP; SHOBAYASHI MASAYUKI; FISHER ZEEV

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

7) Family number: 55893449 (US2016331489A)

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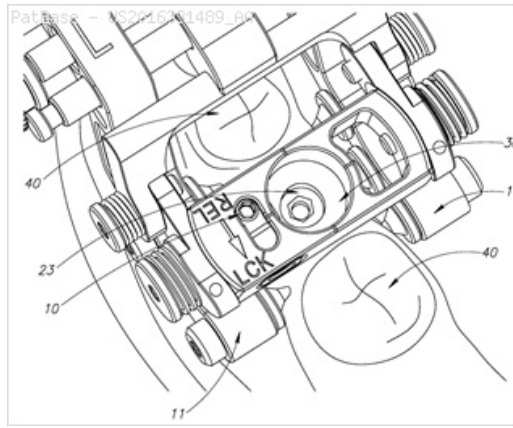
Title: A PRECISION SURGICAL GUIDANCE TOOL SYSTEM AND METHOD FOR IMPLEMENTING DENTAL IMPLANTS

Abstract: A system, apparatus, device, tools, kit and method is provided for the preparation of the jawbone and insertion of dental implants. The apparatus (1) includes a universal and reusable compact clamping device and removable components for the damp which allow for precision surgical preparation and implantation of dental implants into the jawbone. According to some embodiments, an apparatus is provided that includes a swivel platform (3) having a guide member for receiving a tool for preparing an osteotomy and/or for implanting a dental implant into a jaw bone; an orientation member for positioning of the platform and one or more frames (2,12) connectable to the platform.

Classifications:**International (IPC 8-9):** A61B17/17 A61C1/08 A61C3/06

A61C8/00 (Advanced/Invention)

CPC: A61C1/082 A61C8/0089 A61C1/084**US:** 433/75



Family:

Publication number	Publication date	Application number	Application date
GB201322962 A0	20140212	GB20130022962	20131223
GB2521630 A1	20150701	GB20130022962	20131223
GB2521630 B2	20151118	GB20130022962	20131223
US2016331489 AA	20161117	US20140107454	20141223
WO15097671 A2	20150702	WO2014IB67281	20141223
WO15097671 A3	20151112	WO2014IB67281	20141223

Priority:

GB20130022962 20131223 WO2014IB67281 20141223

Probable Assignee: GST LTD

Assignee(s): (std): GST LTD ; SANDERS DANIEL ; SPECTOR BEN ZION ; SANDERS DANIEL J

Assignee(s): BEN ZION SPECTOR ; DANIEL J SANDERS

Inventor(s): (std): SPECTOR BEN ZION ; SANDERS DANIEL J ; SANDERS DANIEL

Inventor(s): DANIEL J SANDERS ; BEN ZION SPECTOR

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

8) Family number: 51713648 (US2013302752A)

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Title: DENTAL IMPRESSION, DRILLING TEMPLATE AND METHOD FOR PROVIDING A RELATIVE LOCATION FOR CREATING A DRILLING TEMPLATE

Abstract: The invention relates to a method for correlating an implantation site (2) of a jaw (1) with a 3D measured data record (21) of the implantation site (2) by means of an impression (3) positioned on the jaw (1) in the area of the implantation site (2), said impression comprising a connecting element (7) for an additional component and the position of the connecting element (7) relative to the implantation site (2) being determined. The invention further relates to a method for producing a drilling template (11) from an impression (3) having a connecting element (7) and to a drilling aid (8) that can be attached to the connecting element (7). The invention further relates to an impression (3) which comprises, on the lower side thereof, a female mold of at least one section of a jaw (2) having an implantation site (2), and to a drilling template (11) which consists of an impression (3) and a drilling aid (8).

Classifications:

International (IPC 8-9): A61B17/17 A61B19/00 A61B5/055 A61B6/14 A61C1/08 A61C13/00 A61C13/36 A61C8/00 A61C9/00 (Advanced/Invention);

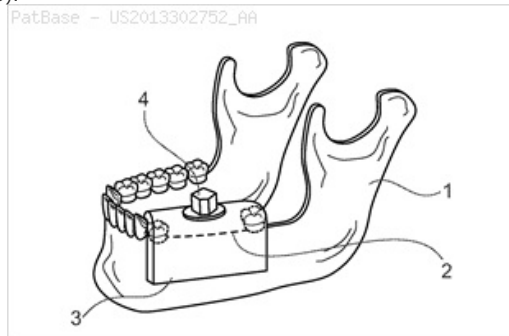
A61B17/56 A61C13/00 (Advanced/Non-invention)

CPC: A61C8/0001 A61C8/009 A61B17/176 A61B2017/568

A61C1/084 A61C13/0004

European: A61C1/08F1 K61C13/00C1

US: 433/173 433/214



Family:

Publication number	Publication date	Application number	Application date
DE102011003561 A1	20120809	DE201110003561	20110203
EP2670338 A2	20131211	EP20120706212	20120202
EP3251626 A2	20171206	EP20170179691	20120202
EP3251626 A3	20180321	EP20170179691	20120202
JP2014511214 T2	20140515	JP20130552198T	20120202
JP2017094195 A2	20170601	JP20170018381	20170203
JP6473767 B2	20190220	JP20170018381	20170203
US2013302752 AA	20131114	US20120983520	20120202
US10188486 BB	20190129	US20120983520	20120202
WO12104364 A2	20120809	WO2012EP51728	20120202
WO12104364 A3	20121115	WO2012EP51728	20120202

Priority:

DE201110003561 20110203 EP20120706212 20120202 WO2012EP51728 20120202
JP20130552198T 20120202 JP20170018381 20170203

Probable Assignee: DENTSPLY SIRONA INC

Assignee(s): (std): DENTSPLY SIRONA INC ; SCHNEIDER SASCHA ; SIRONA DENTAL SYSTEMS GMBH

Inventor(s): (std): SASCHA SCHNEIDER ; SCHNEIDER SASCHA

Agent(s): SOMMER PETER; DENTSPLY SIRONA INC

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PE PG PH PL PT QA RO RS RU RW SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

9) Family number: 57711214 (US2014329197A)

© PatBase

Title: SURGICAL TOOL WITH FLEXIBLE SHAFT

Abstract: An implant system can include a first rotatable flexible shaft comprising a biocompatible material and configured to be used as an implant for placement in the human body, the implant including an implant driving element positioned at a proximal end; a second rotatable flexible shaft including a cutting drill positioned at a distal end and a drill driving element positioned at a proximal end; and a surgical tool capable of being connected, in the alternative, to the drill driving element for forming a recessed surgical site and to the implant driving element for placing the implant in the recessed surgical site.

Classifications:

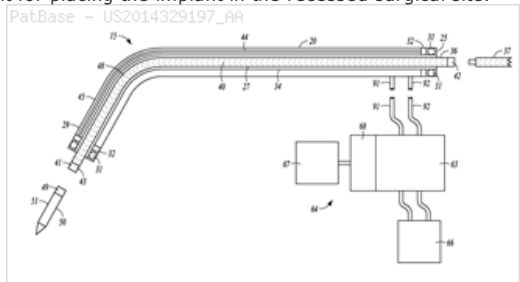
International (IPC 8-9): A61C1/18 A61C3/00

A61C8/00 (Advanced/Invention)

CPC: A61C8/0092 A61C1/18 A61C8/0018 A61C8/0024 A61C8/006

A61C8/0068

US: 433/114 433/75



Family:

Publication number	Publication date	Application number	Application date
US2014329197 AA	20141106	US20140270856	20140506
US9744008 BB	20170829	US20140270856	20140506

Priority:

US20130819908P 20130506 US20140270856 20140506

Probable Assignee: ZIMMER DENTAL INC

Assignee(s): (std): ZIMMER DENTAL INC

Inventor(s): (std): COLLINS MICHAEL SCOTT ; BASSETT JEFFREY

Agent(s): SCHWEGMAN LUNDBERG AND WOESSNER PA

10) Family number: 30360717 (US2004048225A)

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Title: DENTAL DRILL GUIDE AND METHOD

Abstract: An apparatus and method for guiding the formation of multiple, parallel holes in bone or implant in the mouth of a patient. A bar is engagable with a pivot and a slidable drill guide moves along the bar. Rotation of the bar about the pivot and radial movement of the drill guide relative to the bar permits selective positioning of the drill guide at different locations. The drill guide directs a drill bit to control hole formation of one or more holes parallel to the original reference. The angle, proximity and location of holes can be controlled.

Classifications:

International (IPC 8-9): A61C1/08 (Advanced/Invention);

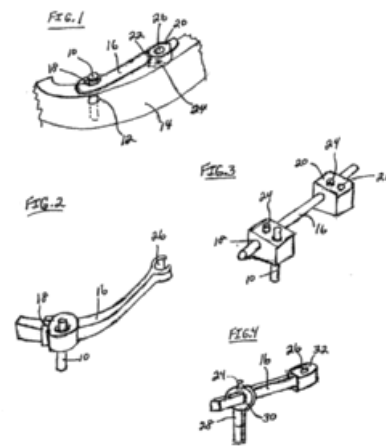
A61C1/08 (Core/Invention)

International (IPC 1-7): A61C3/02

CPC: A61C1/084

European: A61C1/08F1

US: 433/76 433/76P

**Family:**

Publication number	Publication date	Application number	Application date
US2004048225 AA	20040311	US20020238071	20020909

Priority:

US20020238071 20020909

Probable Assignee:

FLETCHER GAYLE J

Assignee(s):

FLETCHER GAYLE J

Inventor(s): (std):

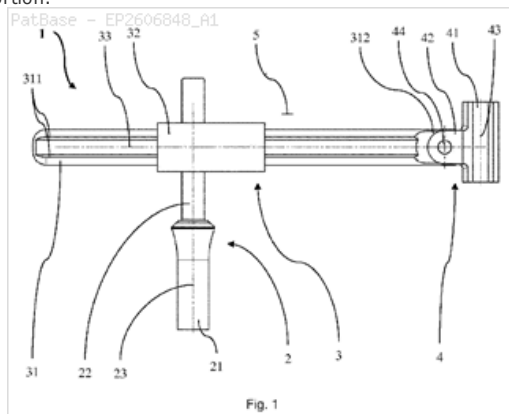
FLETCHER GAYLE J

11) Family number: 54137820 (EP2606848A1)

© PatBase

Title: DEVICE FOR POSITIONING HOLES FOR AN IMPLANT DISPOSITIF DE POSITIONNEMENT DE FORAGE PO

Abstract: The device (1) has a guide element (2) provided with main portion (22). A connecting portion is connected to reference implant (21) in jaw bone. The main portion of the connection portion is extended in axial direction (23). The instrument is arranged on guide portion (4). The guide portion is connected with guide element in initial position so that drilling axis (43) of instrument parallel to the axial direction of main portion of the guide element. The guide portion is tiltable about predefined area relative to the directing element from initial position.

Classifications:**International (IPC 8-9):** A61C1/08 (Advanced/Invention)**CPC:** A61C1/084**Family:**

Publication number	Publication date	Application number	Application date
EP2606848 A1	20130626	EP20130152439	20130124

Priority:

EP20130152439 20130124

Probable Assignee: FISCHLER TITUS**Assignee(s):** (std): FISCHLER TITUS**Inventor(s):** (std): FISCHLER TITUS**Agent(s):** LATSCHA SCHOELLHORN PARTNER**Designated states:** AL AT BA BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC ME MK MT NL NO PL PT RO RS SE SI SK SM TR

Title: Apparatuses and process for parallel placement of bone-integrated cylindrical type implants in dentistry

Abstract: An apparatus for guiding a dental instrument in drilling, in the alveolus of a patient, a second longitudinal perforation that is parallel to a first longitudinal perforation. The apparatus includes (a) a first shaft having a lower portion that is insertable into the first longitudinal perforation, an upper portion and a butt therebetween, the butt having a diameter that is greater than a diameter of the lower portion such that the butt abuts a surface of the jaw of the patient with the lower portion inserted into the first longitudinal perforation; (b) sleeve defining a longitudinal bore for receiving another shaft, the sleeve having a bottom surface and a top surface; (c) first arm for connecting the upper portion of the first shaft to the sleeve with the bore disposed parallel to the first shaft and with the bottom surface of the sleeve disposed above the butt with the first shaft in a vertical orientation such that, when the first shaft is inserted in the first perforation with the butt abutting the surface of the jaw of the patient, the bottom surface of the sleeve is spaced above the jaw; (d) a second shaft insertable into the bore; and (e) second arm means, including a second arm, for connecting an upper end of the second shaft to a head of the dental instrument such that the second arm is disposed above the top surface of the sleeve with the bore disposed in the vertical orientation and with the second shaft inserted in the bore.

Classifications:

International (IPC 8-9): A61C1/08 A61C19/055 (Advanced/Invention);
A61C1/08 A61C19/04 (Core/Invention)

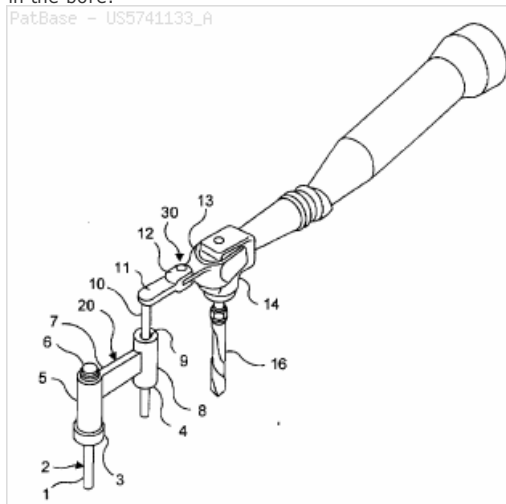
International (IPC 1-7): A61C3/02

CPC: A61C1/084 A61C19/055

European: A61C1/08F1 A61C19/055

US: 433/76

PatBase - US5741133_A



Family:

Publication number	Publication date	Application number	Application date
US5741133 A	19980421	US19960619307	19960321

Priority:

VE19950002131 19951207

Probable Assignee: GORDILS ANTONIO JOSE

Assignee(s): (std): GORDILS ANTONIO JOSE ; VOLPE NICOLAS ANTONIO

Inventor(s): (std): GORDILS ANTONIO JOSE ; VOLPE NICOLAS ANTONIO

Title: Drill guide

Abstract: A drill guide including a location pin, a guide block mechanically linked to the location pin and formed with a through hole for guiding therethrough a drill bit, the guide block being movable relative to the location pin in at least one of six degrees of freedom, and a fastener engageable with the guide block for fixing the guide block relative to the location pin.

Classifications:

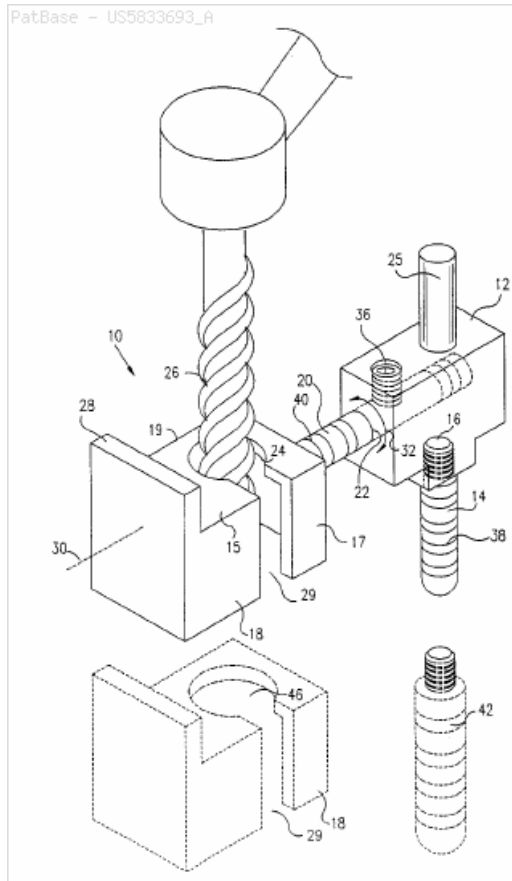
International (IPC 8-9): A61B17/17 A61C1/08 (Advanced/Invention);
A61B17/16 A61C1/08 (Core/Invention)

International (IPC 1-7): A61B17/56

CPC: A61B17/176 A61C1/082 A61C1/084

European: A61B17/17S6 A61C1/08F A61C1/08F1

US: 433/172 606/96

**Family:**

Publication number	Publication date	Application number	Application date
US5833693 A	19981110	US19970850185	19970502

Priority:

US19970850185 19970502

Probable Assignee:

ABRAHAMI ISRAEL

Assignee(s): (std):

ABRAHAMI ISRAEL

Inventor(s): (std):

ABRAHAMI ISRAEL

14) Family number: 13267148 (WO9400073A1)

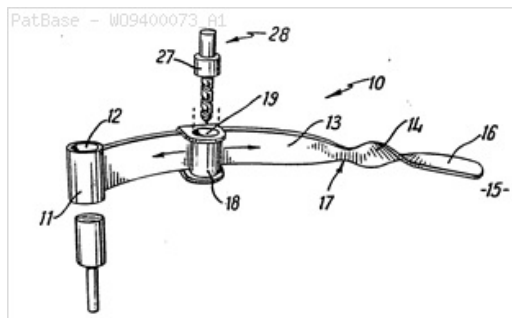
© PatBase

Title: APPARATUS FOR GUIDING IMPLANTS

Abstract: An apparatus for guiding implants comprises a securing device (11; 41; 72, 73) for securing the apparatus to the patient at the region of the patient receiving the implant. The apparatus further comprises a drill guide (18; 42; 74) which is movable relative to the securing device (11; 41; 72, 73).

Classifications:**International (IPC 8-9):** A61C1/08 (Advanced/Invention);

A61C1/08 (Core/Invention)

International (IPC 1-7): A61C8/00**CPC:** A61C1/084**European:** A61C1/08F1**Family:**

Publication number	Publication date	Application number	Application date
AU199343432 A1	19940124	AU19930043432	19930608
GB2284354 A1	19950607	GB19940025696	19930608
GB2284354 B2	19961204	GB19940025696	19930608
GB9213194 A0	19920805	GB19920013194	19920620
GB9425696 A0	19950222	GB19940025696	19930608
WO9400073 A1	19940106	WO1993GB01214	19930608

Priority:

GB19920013194 19920620

WO1993GB01214 19930608

Probable Assignee: UNIV MANCHESTER**Assignee(s):** (std): EDEN ROBERT DAVID ; UNIV MANCHESTER ; YOUNG MALCOLM PETER JACKSON

Assignee(s): UNIVERSITY OF MANCHESTER INSTITUTE OF SCIENCE AND TECHNOLOGY ; UNIVERSITY OF MANCHESTER INSTITUTE OF SCIENCE AND ; OF MANCHESTER INST OF SCIENCE AND TECHNOLOGY UNIV ; OF MANCHESTER INST OF SCIENCE AND UNIV

Inventor(s): (std): EDEN ROBERT DAVID ; YOUNG MALCOLM PETER JACKSON

Inventor(s): ROBERT DAVID EDEN ; MALCOLM PETER JACKSON YOUNG

Designated states: AT AU BB BE BF BG BJ BR BY CA CF CG CH CI CM CZ DE DK ES FI FR GA GB GN GR HU IE IT JP KP KR KZ LK LU MC MG ML MN MR MW NE NL NO NZ PL PT RO RU SD SE SK SN TD TG UA US VN

15) Family number: 21378488 (US2224264A) © PatBase

Title: DENTIST'S DEVICE

Abstract: 1. What I claim and desire to secure by Letters Patent is: In a. dental parallel device, a. guide sleeve, a. clamp for attaching the device to a single tooth other than the one to be treated, a pivot on said clamp having its axis disposed parallel to the bore in said guide sleeve, a guide member pivoted PD Said PIVOt and having guide means extending in a plane at right angles to said pivot, and an arm having one end thereof mounted on said guide member for longitudinal displacement along said guide means, said arm carrying on its free end said guide sleeve

Classifications:

International (IPC 8-9): A61C1/08 (Advanced/Invention);

A61C19/055 (Advanced/Non-invention);

A61C1/08 (Core/Invention);

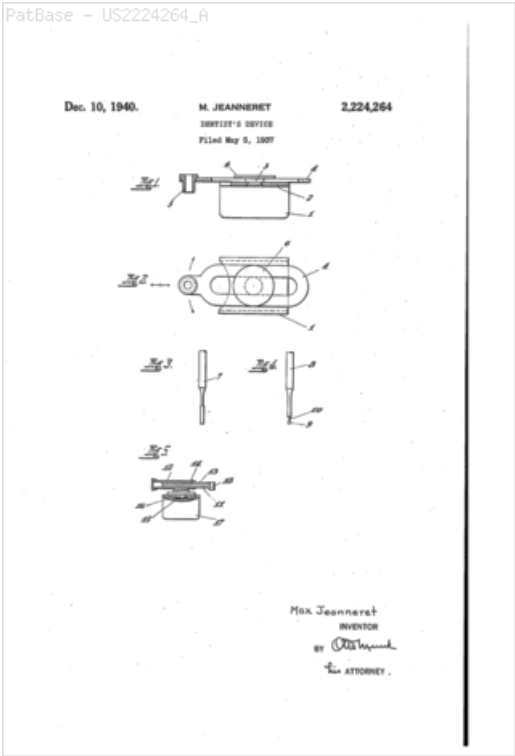
A61C19/04 (Core/Non-invention)

International (IPC 1-7): A61C3/02

CPC: A61C1/082 A61C19/055

European: A61C1/08F K61C19/055

US: 433/75



Family:

Publication number	Publication date	Application number	Application date
US2224264 A	19401210	US19370140807	19370505

Priority:

19360507 US19370140807 19370505

Probable Assignee:

MAX JEANNERET

Assignee(s): (std):

MAX JEANNERET

Inventor(s): (std):

MAX JEANNERET

Inventor(s):

JEANNERET MAX

16) Family number: 29449478 (US6926525B) © PatBase

Title: INSTRUMENT FOR THE PARALLEL INSTALLATION OF DENTAL IMPLANTS

Abstract: The present invention relates to a dental device and a dental system that functions to assist in placing implants at a predetermined angle, in particular in inserting implants parallel with each other or parallel with a non-implant appliance supported in the mouth, and to a method of installing implants in parallelism. The present invention relates to an apparatus for parallel insertion of dental implants comprising a paralleling apparatus and a dental handpiece, wherein the paralleling apparatus comprises at least a first arm and a second arm, said first arm comprising means for pivotably connecting an anchor member thereby defining a first axis of rotation, said second arm comprising means for pivotably connecting attachment means of a dental handpiece thereby defining a second axis of rotation, said arms being pivotably connected by hinging means defining a least a third axis of rotation, said first and second axes of rotation being substantially parallel, wherein the dental handpiece further comprises means for securing a burr, the attachment means and the burr securing means being so arranged that when the dental handpiece is pivotably connected to the second arm, the drilling axis of the burr is at a distance to the second arm and at a direction substantially parallel to the second axis of rotation, and wherein the second arm and/or the attachment means of the dental handpiece comprises means for determining the level of position of the handpiece in relation to the second arm.

Classifications:

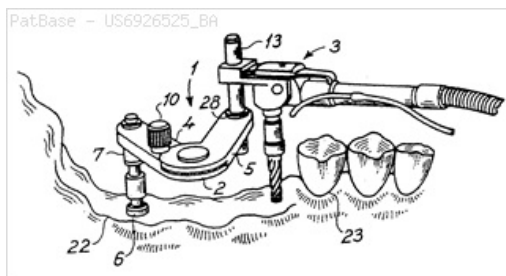
International (IPC 8-9): A61B19/00 A61C1/08 A61C19/05

A61C19/055 A61C3/02 A61C8/00 (Advanced/Invention);

A61B19/00 A61C8/00 (Advanced/Non-invention);

A61B19/00 A61C1/08 A61C19/04 A61C3/02

A61C8/00 (Core/Invention)
International (IPC 1-7): A61B19/00 A61C1/08 A61C19/055
A61C19/55 A61C3/02 A61C8/00
CPC: A61C1/084 A61C19/055
European: A61C1/08F1 A61C19/055
US: 433/76



Family:

Publication number	Publication date	Application number	Application date
AT307538 E	20051115	AT20000974347T	20001109
AU200112692 A1	20010606	AU20010012692	20001109
AU200112692 A5	20010606	AU20010012692D	20001109
CA2426211 AA	20030417	CA20002426211	20001109
DE60023543 D1	20051201	DE20006023543	20001109
DE60023543 D1	20051201	DE20006023543T	20001109
DE60023543 T2	20060810	DE20006023543T	20001109
EP1235527 A1	20020904	EP20000974347	20001109
EP1235527 B1	20051026	EP20000974347	20001109
EP1235527 B8	20060322	EP20000974347	20001109
ES2252073 T3	20060516	ES20000974347T	20001109
JP2004500164 T2	20040108	JP20010536065T	20001109
US6926525 BA	20050809	US20000129836	20001109
WO0134055 A1	20010517	WO2000DK00622	20001109

Priority:

DK19990001620 19991110 DK20000000175 20000202 US20000184071P 20000222
WO2000DK00622 20001109 US20020129836 20020703

Probable Assignee: RONVIG JORN

Assignee(s): (std): HENNING LEHMAN BASHAN ; JORN RONVIG ; ROENVIG JOERN ; RONVIG JORN ;
TANDLAEGESELKABET ; TANDLAEGESELKABET V HENNING L ; TANDLAEGESELKABET ODENSE C

Assignee(s): TANDLAEGESELKABET HENNING LEHMANN BASTIAN APS ; BASTIAN HENNING LEHMANN ;
TANDLAEGESELKABET V HENNING LEHMANN BASTIAN ; RO NV ; JOERN ROENVIG

Inventor(s): (std): BASTIAN HENNING LEHMANN ; HENNING LEHMAN BASHAN ; LEHMAN BASHAN HENNING ; ROENVIG
JOERN ; RONVIG JORN

Inventor(s): JORN RONVIG ; BASHAN HENNING LEHMAN

Agent(s): DEETH WILLIAMS WALL LLP; BIRCH STEWART KOLASCH AND BIRCH LLP

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BY BZ CA CF CG CH CI CM CN CR CU CY CZ DE DK DM
DZ EE ES FI FR GA GB GD GE GH GM GN GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LI LK
LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NE NL NO NZ PL PT RO RU SD SE SG SI SK SL
SN SZ TD TG TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW

17) Family number: 43625184 (US2009202959A)

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Title: DENTAL IMPLANT GUIDE

Abstract: In one embodiment of the present invention, a dental implant guide features a drill base operable to be secured inside of a human mouth. A drill guide is adjustably attached to the drill base. The drill guide is operable to guide the path of a drill bit down a drilling axis.

Classifications:

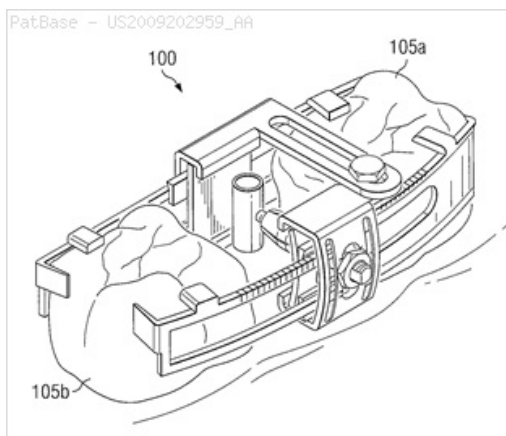
International (IPC 8-9): A61C3/02 (Advanced/Invention);

A61C3/02 (Core/Invention)

CPC: A61C1/084

European: A61C1/08F1

US: 433/215 433/76



Family:

Publication number	Publication date	Application number	Application date
US2009202959 AA	20090813	US20090370095	20090212

Priority:

US20080065604P 20080213 US20090370095 20090212

Probable Assignee: TEXAS A AND M UNIV SYSTEM

Assignee(s): (std): TEXAS A AND M UNIV SYS

Assignee(s): TEXAS A AND M UNIV SYSTEM ; THE TEXAS A AND M UNIVERSITY SYSTEM ; TEXAS A AND M UNIV
Inventor(s): (std): AJLOUNI RAED ; AJLOUNI KHALDOUN
Agent(s): BAKER BOTTS LLP

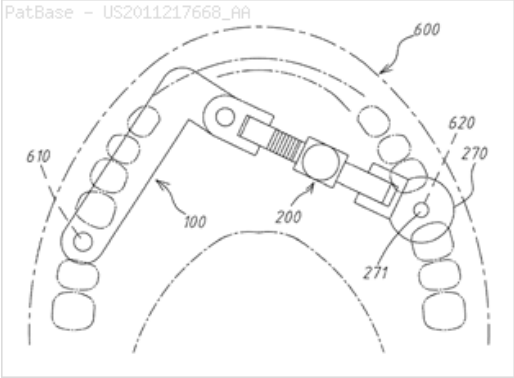
18) Family number: 49552824 (US2011217668A) © PatBase

Title: POSITIONING ASSIST DEVICE FOR DRILLING MULTIPLE DENTAL IMPLANT HOLES

Abstract: A positioning assist device for drilling multiple dental implant holes is disclosed, which includes a main arm unit and an extension arm unit. The main arm unit has an arm body with two opposing ends, in which a reference shaft is pivoted on a first end, and an extension arm unit is pivoted on a second end via a connecting shaft. A drill-guiding portion having a drill-guiding hole is disposed on an external end portion of the second connecting head. The reference shaft is inserted into a first dental implant hole through an axle hole of the first end. The positions and angles of the drill-guiding hole of the extension arm unit can be adjusted to reach other dental implant holes by pivoting on the reference shaft and the connecting shaft, so as to lead a driller to drill other dental implant holes precisely according to the drill-guiding hole.

Classifications:

International (IPC 8-9): A61C13/225 A61C3/02 A61C3/04
A61C8/00 (Advanced/Invention);
A61C3/02 A61C8/00 (Core/Non-invention)
CPC: A61C1/085
US: 433/75 433/76 433/76P 606/96



Family:

Publication number	Publication date	Application number	Application date
JP2011183157 A2	20110922	JP20110047384	20110304
JP5425827 B2	20140226	JP20110047384	20110304
TW201130465 A	20110916	TW20100106500	20100305
US2011217668 AA	20110908	US20110039324	20110303
US8226406 BB	20120724	US20110039324	20110303

Priority:

TW20100106500 20100305

Probable Assignee: HUNG YUNG TANG
Assignee(s): (std): HUNG YUNG TANG
Assignee(s): LIN JHEN SI ; LIN TSUO WEN ; CHAN MING HUI
Inventor(s): (std): HUNG YUNG TANG
Inventor(s): HUNG, YUNG TANG
Agent(s): CKC AND PARTNERS CO LTD