

1) Family number: 32089015 (US2005159754A)

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Title: PERIOSTEAL DISTRACTION BONE GROWTH

Abstract: A periosteal distraction osteogenesis method and apparatus uses a sheet member for covering a surface of living bone that is, in turn, covered by soft tissue. The sheet member is under the soft tissue and over an area where bone growth outwardly and normally to the bone surface is desired. An attractor member adapted to magnetically attract the sheet member for exerting a pulling force on the sheet member in a direction outwardly and normally of the bone surface, is secured at an outwardly spaced location from the sheet member for causing growth of bone outwardly and normally to the bone surface.

Classifications:

International (IPC 8-9): A61B17/56 A61B17/66 A61F2/30 A61F5/00 A61F5/04 (Advanced/Invention);

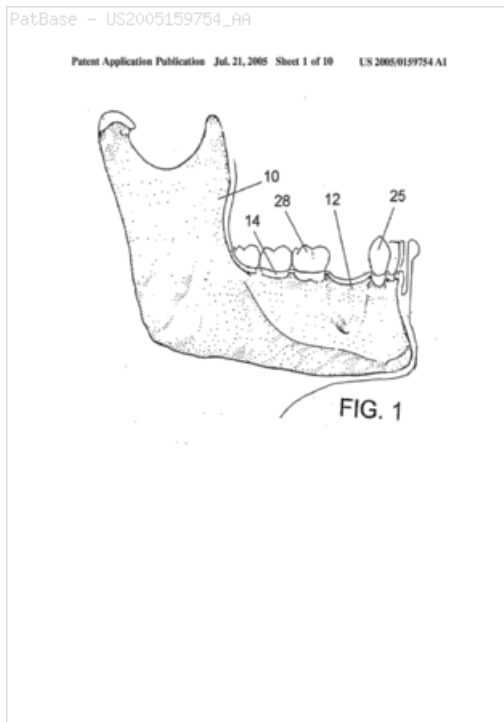
A61B17/56 A61B17/60 A61F2/30 A61F5/00 A61F5/04 (Core/Invention)

International (IPC 1-7): A61B17/56 A61F2/30 A61F5/00 A61F5/04

CPC: A61B17/66 A61B17/663 A61B17/666 A61C8/0006 A61F2/2846 A61F2002/30471 A61F2002/30507 A61F2002/30563

European: A61B17/66 A61B17/66J A61B17/66J2 A61C8/00C1A

US: 606/53 606/53S 606/86 606/86.00RP 606/86R



Family:

Publication number	Publication date	Application number	Application date
US2005159754 AA	20050721	US20040761840	20040121
US2005159755 AA	20050721	US20040935413	20040907

Priority:

US20040761840 20040121 US20040935413 20040907

Probable Assignee: ODRICH RONALD B

Assignee(s): ODRICH RONALD B

Inventor(s): (std): ODRICH RONALD B

Inventor(s): ODRICH RONALD

Agent(s): NOTARO AND MICHALOS

2) Family number: 6018022 (US4615338A)

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Title: Automatic compression-distraction apparatus

Abstract: A drive of a compression-distraction apparatus, comprising a lead screw whose thread is mated with an opening of a ratchet wheel placed in a housing, a pawl interacting with teeth of the wheel and connected to a load-bearing element manufactured from an alloy possessing plastic memory. The load-bearing element has a rectilinear shape and is essentially a tie-rod whose one end is rigidly secured to the housing while the other end is coupled to a resilient member and the pawl, said load-bearing element being further provided with an electric heater connected to the housing.

Classifications:

International (IPC 8-9): A61B17/60 A61B17/62 (Advanced/Invention); A61B17/80 (Advanced/Non-invention);

A61B17/60 (Core/Invention);

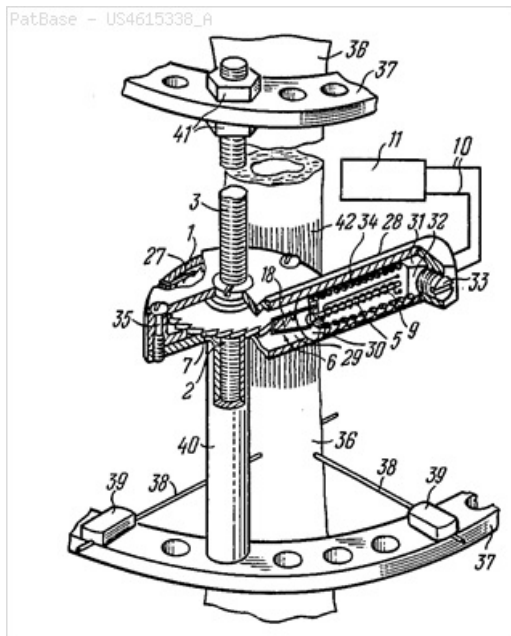
A61B17/68 (Core/Non-invention)

International (IPC 1-7): A61B17/18 A61B17/60 A61F5/04

CPC: A61B17/62 A61B17/8004

European: A61B17/62 K61B17/80A

US: 128/92A 128/92G 606/58 606/59

**Family:**

Publication number	Publication date	Application number	Application date
AT269785 A	19870415	AT19850002697	19850916
AT384360 B	19871110	AT19850002697	19850916
BE903258 A	19860318	BE19850215600	19850918
CH668695 A	19890131	CH19850004051	19850918
FR2587612 A1	19870327	FR19850014058	19850923
FR2587612 B1	19881110	FR19850014058	19850923
GB2180453 A1	19870401	GB19850023265	19850920
GB2180453 B2	19890831	GB19850023265	19850920
GB8523265 A0	19851023	GB19850023265	19850920
US4615338 A	19861007	US19850777425	19850918

Priority:

AT19850002697 19850916 BE19850215600 19850918 CH19850004051 19850918
 US19850777425 19850918 GB19850023265 19850920 FR19850014058 19850923

Probable Assignee: KURGANSKY NIIEX I KLINICHESKOI

Assignee(s): (std): KURGAN NIIEX I KLINICHE ORTOPE ; KURGANSKY INSTEX ; KURGANSKY NIIEX I KLINICHESKOI

Assignee(s): KURGANSKY NAUSHNO ISSLEDOVATELSKY INSTITUT EXPERIM ; KURGANSKY NAUSHNO ISSLEDOVATELSKY INSTITUT EXPERIMENTALNOI I KLINICHESKOI ORTOPEDII I TRAVMATOLOGII ; KURGAN N I INST EXPERIMENTAL I KLINICHE ORTOPEDII ; KURGAN N I INST EXPERIMENTAL I KLINICHE ORTOPEDII I TRAVMATOLOGII ; KURGANSKY NAUCHNO ISSLEDOVATELSKY INST ; KURGANSKY INSTITUT EXPERIMENTAL ; KURGANSKY NAUCHNO ISSLEDOVATELSKY INSTITUT EXPERIM ; KURGANSKY NAUCHNO ISSLEDOVATELSKY INSTITUT EXPERIMENTALNOI I KLINICHESKOI ORTOPEDII I TRAVMATOLOGII ; KURGANSKY NAUCHNO ISSLEDOVATELSKY INSTITUT EXPERIMENTALNOI I KLINICHESKOI ORTOPEDII ; KURGANSKY NAUCHNO ISSLEDOVATELSKY INSTITUT EXPERIMENTALNOI I KLINICHESKOI ORTOPEDII ; KURGANSKY NAUCHNO ISSLEDOVATELSKY INSTITUT EXPERIMENTALNOI I KLINICHESKOI ORTOPEDII ; KURGANSKY NAUSHNO ISSLEDOVATELSKY INST EXPERIMENTALNOI I KLINICHESKOI ORTOPEDII I TRAVMATOLOGII

Inventor(s): (std): PREDEIN ALEXANDR PETROVICH ; PREDEIN ALEXANDR P ; PREDEIN A P ; ILIZAROV GRAVRIIL ABRAMOVICH ; ILIZAROV GAVRIIL ABRAMOVICH ; ILIZAROV GAVRIIL ABRAMOVICH ; ILIZAROV GAVRIIL A ; ILIZAROV G A ; BYKOV VYACHESLAV MIKHAILOVICH ; BYKOV VYACHESLAV M ; BYKOV V M

Inventor(s): AP PREDEIN ; ALEXANDR PETROVICH PREDEIN ; A P PREDEIN ; GRAVRIIL ABRAMOVICH ILIZAROV ALEXANDR PETROVICH PR ; VYACHESLAV MIKHAILOVICH BYKOV ; VM BYKOV ; V M BYKOV ; GRAVRIIL ABRAMOVICH ILIZAROV ALEXANDR PETROVICH PREDEIN ET VYACHESLAV MIKHAILOVICH BYKOV ; GRAVRIIL ABRAMOVICH ILIZAROV ALEXANDR ; GAVRIIL ABRAMOVICH ILIZAROV ; GA ILIZAROV ; G A ILIZAROV

3) Family number: 34175041 (US2008300637A)

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Title: SYSTEMS AND METHODS FOR USING POLYAXIAL PLATES

Abstract: Certain embodiments of the invention provide plates for treating periarticular fractures or other non-full body weight bearing applications that combine polyaxial fixation with a low profile and enhanced contouring that more closely conforms to bone. Such plates can be designed to achieve buttressing effect and/or to be used in a reinforcement mode. Other features can be combined with these. Such plates can be created for use on bone sites such as on a tibia, fibula, metatarsal, calcaneus, other foot bone, humerus, radius, ulna, spinal, maxillofacial, as well as sites on other bones.

Classifications:

International (IPC 8-9): A61B17/58 A61B17/70 A61B17/74

A61B17/80 A61B17/86 (Advanced/Invention);

A61B17/00 A61B17/70 A61B17/86 (Advanced/Non-invention);

A61B17/58 A61B17/68 A61B17/70 (Core/Invention);

A61B17/70 (Core/Non-invention)

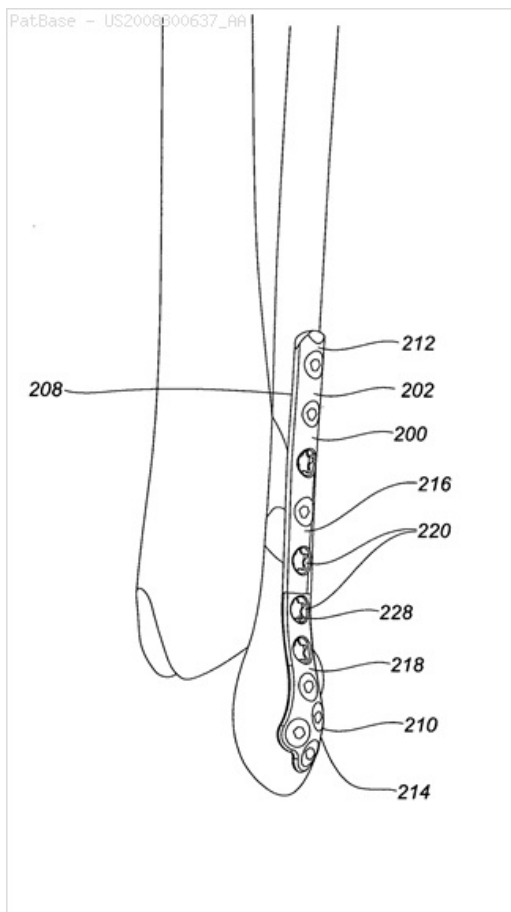
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European: A61B17/74 A61B17/80F2 A61B17/80H A61B17/86A

A61B17/86M K61B17/00A K61B17/80F2 K61B17/80P K61B17/86A
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US: 606/280 606/280P 606/281 606/281S 606/283 606/284 606/286
606/286S 606/289 606/290 606/290P 606/291 606/293 606/301
606/301S 606/305 606/305S
JP F-Term: 4C060 4C160 4C160/LL23 4C160/LL27 4C160/LL29
4C160/LL32 4C160/LL42
JP F-Index: A61B17/58/310 A61B17/80 A61B17/86



Family:

Publication number	Publication date	Application number	Application date
AU2006272646 AA	20070201	AU20060272646	20060725
AU2006272646 BB	20130124	AU20060272646	20060725
AU2006272646 CA	20180621	AU20060272646	20060725
AU2013202741 AA	20130502	AU20130202741	20130405
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CA2616798 AA	20080125	CA20062616798	20060725
CA2616798 C	20140128	CA20062616798	20060725
CN101272743 A	20080924	CN200680034340	20060725
CN101272743 B	20110126	CN200680034340	20060725
EP1919385 A2	20080514	EP20060800307	20060725
EP1919385 B1	20140820	EP20060800307	20060725
JP2009502336 T2	20090129	JP20080524048T	20060725
US2008300637 AA	20081204	US20080069331	20080208
US2009143824 AA	20090604	US20060996795	20060725
US2013172943 AA	20130704	US20130774721	20130222
US2015066095 AA	20150305	US20140535573	20141107
US2018000528 AA	20180104	US20170706877	20170918
US2018250044 AA	20180906	US20180970760	20180503
US2018250045 AA	20180906	US20180970773	20180503
US2018250046 AA	20180906	US20180970779	20180503
US8382807 BB	20130226	US20080069331	20080208
US8888824 BB	20141118	US20130774721	20130222
US8940028 BB	20150127	US20060996795	20060725
US9795424 BB	20171024	US20140535573	20141107
US10092337 BB	20181009	US20170706877	20170918
WO07014192 A2	20070201	WO2006US28778	20060725
WO07014192 A3	20070531	WO2006US28778	20060725
WO07014279 A2	20070201	WO2006US29044	20060725
WO07014279 A3	20070712	WO2006US29044	20060725

Priority:

US20050702231P	20050725	US20060800355P	20060515	AU20060272646	20060725
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US20080069331	20080208	US20080996795	20080801	US20130774721	20130222
AU20130202741	20130405	US20140535573	20141107	AU20160200489	20160128
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US20180970779	20180503	US20180970760	20180503	US20180970773	20180503

Probable Assignee: SMITH AND NEPHEW PLC

Assignee(s): (std): AUSTIN ED ; AUSTIN GENE EDWARD ; BLACK BRIAN LEE ; HARMON JON A ; HARMON JON ANDREW ; JANNA SI ; JANNA SI W ; SCHNEIDER JOHN B ; RAINS JAMES K ; PETTEYS TIMOTHY J ; SMITH AND NEPHEW INC ; JANNA SIED W ; TORNETTA PAUL ; RUSSELL THOMAS ANTHONY ; RICCI WILLIAM ; RUSSELL THOMAS A ; RICCI WILLIAM M ; SMITH AND NEPHEW INC A DELAWARE CORP ; SMITH AND NEPHEW PLC

Assignee(s): N A

Inventor(s): (std): AUSTIN ED ; AUSTIN GENE EDWARD ; BLACK BRIAN LEE ; ED AUSTIN ; JANNA SI ; JANNA SI W ; JANNA SIED W ; LEE BLACK BRIAN ; PETTEYS TIMOTHY J ; PETTYS TOMOTHY J ; RAINS JAMES K ; RICCI WILLIAM ; RICCI WILLIAM M ; RUSSELL THOMAS A ; RUSSELL THOMAS ANTHONY ; SCHNEIDER JOHN B ; SI JANNA ; HARMON JON A ; HARMON JON ANDREW ; TORNETTA PAUL

Inventor(s): JAMES K RAINS ; SI W JANNA ; JOHN B SCHNEIDER ; JON ANDREW HARMON ; GENE EDWARD AUSTIN

Agent(s): DAVIES COLLISON CAVE; DAVIES COLLISON CAVE PTY LTD; BORDEN LADNER GERVAIS LLP; CONNORS MARTIN LH; CHIEF PATENT COUNSEL SMITH AND NEPHEW INC; DIANA HOUSTON SMITH AND NEPHEW INC; FISH AND RICHARDSON PC

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR 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 MG MK ML MN MR MW MX 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 SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

4) Family number: 11764051 (US5380328A)

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Title: COMPOSITE PERFORATED IMPLANT STRUCTURES

Abstract: A composite surgical implant structure for use orthognathic and reconstructive surgery, for the correction cranial defects, and for reconstructive preprosthetic oral maxillofacial surgery, the implant structure is comprised of at least one layer of perforated, biocompatible metallic sheet material (preferably pure pliable titanium) and at least one layer of biologically and chemically inert microporous membrane material in intimate contact with, and supported by, the layer of perforated metallic sheet material. The microporous membrane material is comprised of randomly dispersed polytetrafluoroethylene fibers, or mixtures of cellulose acetate and cellulose nitrate fibers, or polyvinylidene difluoride fibers and the material has a pore size such that desired biological nutrients are permitted passage through the implant structure and unwanted biological cells are precluded from passage therethrough, The layers of perforated metallic sheet material and microporous membrane material are maintained together to form the composite structure by a biocompatible adhesive, heat fusion of the fibers of the membrane material or mechanical fasteners interacting between the layers. The implant structure is particularly applicable to use for the guided regeneration and enlargement of bone tissue at surgical sites.

Classifications:

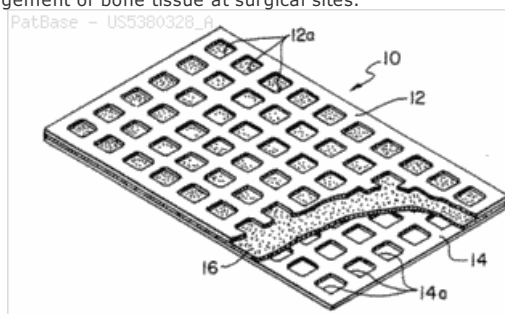
International (IPC 8-9): A61B17/80 A61F2/06 A61F2/08 A61F2/28 A61F2/30 A61L27/30 A61L27/48 (Advanced/Invention); A61F2/00 (Advanced/Non-invention)

International (IPC 1-7): A61F2/28

CPC: A61B17/8071 A61B17/8085 A61F2/06 A61F2/08 A61F2/2803 A61F2/2846 A61F2/2875 A61F2/30907 A61F2/30965 A61F2002/30448 A61F2002/30785 A61F2002/30914 A61F2002/30915 A61F2220/005 A61F2310/00401 A61F2310/00407 A61F2310/00413 A61L27/306 A61L27/48

European: A61B17/80H4 A61B17/80P A61F2/06 A61F2/08 A61F2/28B A61F2/28H A61F2/30L4 A61F2/30M4 A61L27/30R A61L27/48 K61F2/28S K61F2/30A3T8 K61F2/30L2A9P K61F2/30L4N8 K61F2/30L4N87 K61F220/00T8 K61F310/00L2A K61F310/00L2E K61F310/00L2F

US: 606/70 623/16 623/17.19



Family:

Publication number	Publication date	Application number	Application date
US5380328 A	19950110	US19930103541	19930809

Priority:

US19930103541 19930809

Probable Assignee: SOFAMOR DANEK PROPERTIES INC

Assignee(s): (std): TIMESH INC

Assignee(s): SD ACQUISITION CORP ; SOFAMOR DANEK PROPERTIES INC

Inventor(s): (std): MORGAN FRANK H

5) Family number: 57428063 (US2014276817A)

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Title: EXTERNAL BONE FIXATION DEVICE

Abstract: The present application discloses embodiments related to an external bone fixation device configured to correct bone deformities or repair bone injuries. The device can include a plurality of bases configured to be attached to portions of a bone and a plurality of struts configured to be adjustable in length to change the position and orientation of the plurality of bases and the attached bone portions.

Classifications:

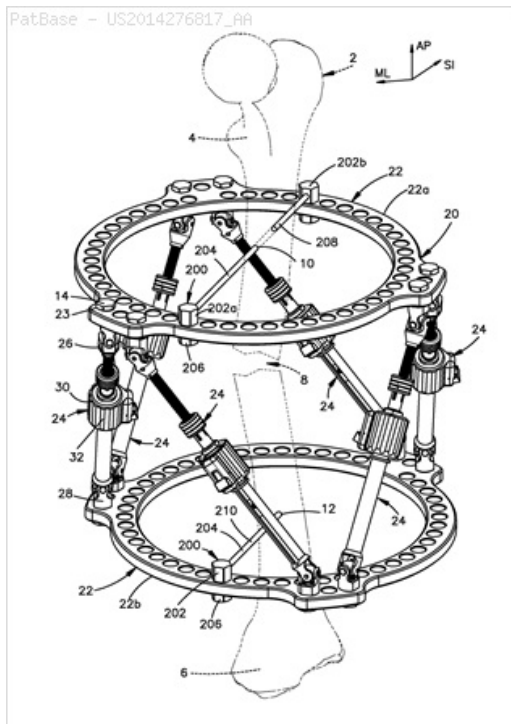
International (IPC 8-9): A61B17/00 A61B17/60 A61B17/62 A61B17/64 A61B17/66 (Advanced/Invention); A61B17/60 (Advanced/Non-invention)

CPC: A61B2017/606 A61B2090/3966 A61B17/6416 A61B17/6441 A61B17/66 A61B17/6466 A61B17/64 A61B17/60 A61B17/62

US: 606/54 606/56 606/57

JP F-Term: 4C160 4C160/LL18

JP F-Index: A61B17/60 A61B17/62

**Family:**

Publication number	Publication date	Application number	Application date
BR112015022354 A2	20170718	BR20151122354	20140313
CA2905865 AA	20150911	CA20142905865	20140313
CN105050517 A	20151111	CN201480014050	20140313
CN105050517 B	20190101	CN201480014050	20140313
DE602014014543 D1	20171026	DE201460014543T	20140313
EP2967669 A2	20160120	EP20140721066	20140313
EP2967669 B1	20170913	EP20140721066	20140313
EP3281592 A1	20180214	EP20170184793	20140313
ES2649161 T3	20180110	ES20140721066T	20140313
IN07266DN2015 A	20160101	IN2015DN07266	20150817
JP2016515868 T2	20160602	JP20160501803T	20140313
JP6382293 B2	20180829	JP20160501803T	20140313
KR20150129812 A	20151120	KR20157028671	20140313
RU2015143523 A	20170419	RU20150143523	20140313
US2014276817 AA	20140918	US20130800319	20130313
US2014276821 AA	20140918	US20130800545	20130313
US2015223842 AA	20150813	US20150691683	20150421
US2016022314 AA	20160128	US20140774374	20140313
US2017238967 AA	20170824	US20170590687	20170509
US8864763 BB	20141021	US20130800545	20130313
US9039706 BB	20150526	US20130800319	20130313
US9675382 BB	20170613	US20140774374	20140313
US9788861 BB	20171017	US20150691683	20150421
WO14159824 A2	20141002	WO2014US25263	20140313
WO14159824 A3	20141231	WO2014US25263	20140313
WO14159824 A4	20150219	WO2014US25263	20140313

Priority:

US20130800319 20130313	US20130800545 20130313	EP20140721066 20140313
US20140774374 20140313	WO2014US25263 20140313	US20150691683 20150421
US20150774374 20150910	US20170590687 20170509	

Probable Assignee: DEPUY SYNTHES PRODUCTS INC**Assignee(s):** (std): DEPUY SYNTHES PRODUCTS LLC ; MAUGHAN THOMAS JOSEPH ; WAHL MICHAEL ; MURRAY NICOLE ; BORDEAUX JEAN NOEL ; DEPUY SYNTHES PRODUCTS INC**Assignee(s):** DEPUY SYNTHES PRODUCTS INC RAYNHAM ; SYNTHES USA PRODUCTS LLC ; MAUGHAN THOMAS ; MURRY NICOLE ; N A**Inventor(s):** (std): BORDEAUX JEAN NOEL ; JEAN NOEL BORDEAUX ; MAUGHAN THOMAS JOSEPH ; MURRY NICOLE ; NICOLE MURRAY ; THOMAS MAUGHAN ; WAHL MICHAEL ; MICHAEL WAHL ; MURRAY NICOLE ; MAUGHAN THOMAS**Inventor(s):** MURRAY NICOLE WEST MILFORD ; WAHL MICHAEL WEST CHESTER ; MAUGHAN THOMAS WEST CHESTER ; BORDEAUX JEAN NOEL WEST CHESTER**Agent(s):** NORTON ROSE FULBRIGHT CANADA LLP SENCRL SRL; KLUNKER IP PATENTANWALTE PARTG MBB; KLUNKER SCHMITT NILSON HIRSCH; IZQUIERDO MARIA ALICIA; KATO MASANOBU; BAKER AND HOSTETLER LLP; JOHNSON PHILIP S 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 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

Title: APPARATUS AND METHODS FOR BONE FRACTURE REDUCTION AND FIXATION

Abstract: Apparatus to facilitate reduction and fixation of a fracture by drawing together the fracture by applying tension to a reduction **wire** are disclosed. These apparatus include a bone plate for the fixation of a fractured bone having a plurality of fastener openings so that the bone plate may be secured by a plurality of fasteners across a reduced fracture to fixate a reduced fracture. The bone plate is configured with a channel that receives a reduction **wire** so that the reduction **wire** may extend between the bone plate and a reduction **wire** mount such as a bone screw. Methods of use of the present invention include fastening the bone plate to a first side of the fracture, fastening a reduction **wire** mount to a second side of the fracture, fastening a reduction **wire** to the reduction **wire** mount, receiving the reduction **wire** in the channel, applying tension to the reduction **wire** to draw the bone plate and the reduction **wire** mount together thereby reducing the fracture, and fixating the fracture by fastening the bone plate to the second side of the fracture.

Classifications:

International (IPC 8-9): A61B17/58 A61B17/80

A61F2/30 (Advanced/Invention);

A61B17/58 A61B17/68 A61F2/30 (Core/Invention)

CPC: A61B17/8019 Y10S606/902 Y10S606/916 A61B17/842

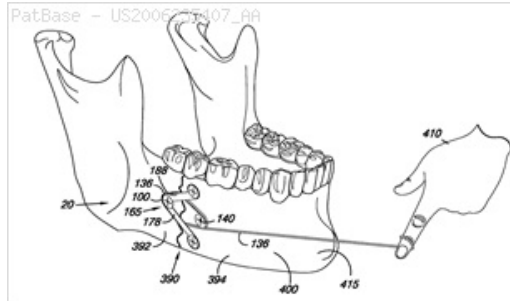
A61B17/663 A61B17/8071

European: A61B17/66J A61B17/80A5 A61B17/80H4 A61B17/84B

US: 606/280 606/281 606/281P 606/282 606/282S 606/283

606/283S 606/286 606/286S 606/301 606/69 606/71 606/71P

606/902 606/915 606/916



Family:

Publication number	Publication date	Application number	Application date
US2006235407 AA	20061019	US20060439601	20060524
US2006235408 AA	20061019	US20060439611	20060524
US2007156147 AA	20070705	US20070699866	20070130
US2011218535 AA	20110908	US20110110843	20110518
US7235077 BA	20070626	US20020293732	20021112
US7578835 BB	20090825	US20060439601	20060524
US8617221 BB	20131231	US20110110843	20110518

Priority:

US20010350785P 20011109 US20020293732 20021112 US20060439601 20060524
US20060439611 20060524 US20070699866 20070130 US20110110843 20110518

Probable Assignee: BOARD OF NEVADA SYSTEM OF HIGHER EDUCATION ON BEHALF OF UNIV OF NEVADA RENO

Assignee(s): (std): TRABIA MOHAMED B ; WANG ROBERT C ; UNIV COMMUNITY COLLEGE SYS NEV ; WANG ROBERT ; UNIV COMMUNITY COLLEGE SYS NEV ; NEVADA SYSTEM OF HIGHER EDUCAT ; UNIV NEVADA

Assignee(s): BOARD OF UNIV AND COMMUNITY COLLEGE SYSTEM OF NEVA ; BOARD OF UNIV AND COMMUNITY COLLEGE SYSTEM OF NEVADA ON BEHALF OF UNIV OF NEVADA RENO ; BOARD OF UNIV ; BOARD OF UNIV AND COMMUNITY COLLEGE SYSTEM OF ; BOARD OF NEVADA SYSTEM OF HIGHER EDUCATION ; BOARD OF NEVADA SYSTEM OF HIGHER EDUCATION ON BEHA ; BOARD OF NEVADA SYSTEM OF HIGHER EDUCATION ON BEHALF OF UNIV OF NEVADA LAS VEGAS ; BOARD OF NEVADA SYSTEM OF HIGHER EDUCATION ON BEHALF OF UNIV OF NEVADA RENO ; BOARD OF REGENTS OF THE NEVADA SYSTEM OF HIGHER EDUCATION ; BOARD OF REGENTS OF THE UNIVERSITY AND COMMUNITY C ; BOARD OF REGENTS OF THE UNIVERSITY AND COMMUNITY COLLEGE SYSTEM OF NEVADA ON BEHALF OF THE UNIVERSITY OF NEVADA RENO

Inventor(s): (std): TRABIA MOHAMED B ; WANG ROBERT C ; WANG ROBERT

Inventor(s): TRABIA MOHAMED

Agent(s): DR RICHARD BJUR OFFICE OF TECHNOLOGY TRANSFER MS321; DR RICHARD BJUR OFFICE OF TECHNOLOGY TRANSFER MS 321; CYR AND ASSOCIATES PA; RYAN A; UNR DRI TECHNOLOGY TRANSFER OFFICE

Title: FORCEPS AND SYSTEM USING SAME

Abstract: A pair of forceps including first and second elongated members pivotally connected together. A handle and a head are defined at opposing ends of the first and second elongated members. In one preferred embodiment, a threaded cannula receiving chamber is disposed in the head, and the elongated members are separable via manipulation of the first and second elongated members with respect to each other.

Classifications:

International (IPC 8-9): A61B17/00 A61B17/02 A61B17/28

A61B17/34 A61B17/50 A61C3/14 (Advanced/Invention);

A61B17/34 (Advanced/Non-invention);

A61B17/00 A61B17/02 A61B17/28 A61B17/34

A61B17/50 (Core/Invention);

A61B17/34 (Core/Non-invention);

A61B (Subclass/Invention)

International (IPC 1-7): A61B17/28

CPC: A61B17/2816 A61B17/282 A61B2017/2808 A61B2017/349

A61B17/02

European: A61B17/02 A61B17/28D2 A61B17/28D4 K61B17/28C

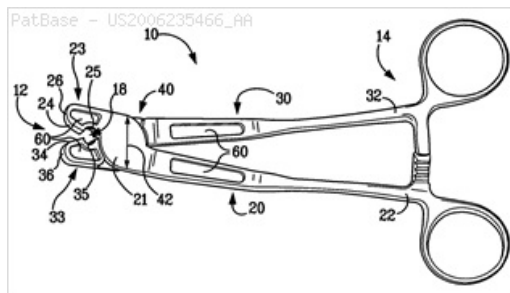
K61B17/34R2D

US: 606/205 606/205P

JP F-Term: 4C052 4C052/AA06 4C052/BB14 4C052/DD10 4C060

4C060/GG05 4C060/GG08 4C160 4C160/GG05 4C160/GG06 4C160/GG08 4C160/MM03

JP F-Index: A61B17/02 A61B17/28 A61C3/14



Family:

Publication number	Publication date	Application number	Application date
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AT450214 E	20091215	AT20060750046T	20060412
AU2006236779 AA	20061026	AU20060236779	20060412
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CA2604704 AA	20071012	CA20062604704	20060412
CA2604704 C	20141021	CA20062604704	20060412
CN101160100 A	20080409	CN200680011969	20060412
CN101160100 B	20130306	CN200680011969	20060412
DE602006010838 D1	20100114	DE200660010838T	20060412
EP1868514 A1	20071226	EP20060750046	20060412
EP1868514 B1	20091202	EP20060750046	20060412
ES2334828 T3	20100316	ES20060750046T	20060412
IN03887KN2007 A	20080704	IN2007KN03887	20071011
IN273510 B	20160617	IN2007KN03887	20071011
JP2008536568 T2	20080911	JP20080506692T	20060412
JP5039026 B2	20121003	JP20080506692	20060412
KR101277098 B1	20130620	KR20077022407	20060412
KR20080009066 A	20080124	KR20077022407	20060412
TW200716051 A	20070501	TW20060113056	20060412
TWI380794 B	20130101	TW20060113056	20060412
US2006235466 AA	20061019	US20050105661	20050413
US8152834 BB	20120410	US20050105661	20050413
WO06113355 A1	20061026	WO2006US13874	20060412
ZA200708335 A	20081126	ZA20070008335	20070928

Priority:

US20050105661 20050413 WO2006US13874 20060412

Probable Assignee: SYNTHES USA LLC

Assignee(s): (std): HFSC CO ; MCGARITY OWEN C ; GRIFFITHS BRYAN ; GRIFFITHS BRYAN JAMES ; MCGARITY OWEN CARLOS ; SYNTHES GMBH ; SYNTHES USA ; SYNTHES USA LLC

Assignee(s): SYNTHES USA1302 WRIGHTS LANE EASTWEST CHESTERPA19380US ; SYNTHES USA LLC1302 WRIGHTS LANE EASTWEST CHESTERPA19380US ; SYNTHES ; SYNTHES (USA) ; HAND INNOVATIONS LLC ; HFSC CO1302 WRIGHTS LANE EASTWEST CHESTERPA19380US ; HAND INNOVATIONS LLC220 - 8905 SW 87TH AVENUEMIAMI FL33176US ; HFSC COMPANY ; DEPUY SPINE LLC ; DEPUY SPINE LLC325 PARAMOUNT DRIVERAYNHAMMA02767US ; DEPUY SYNTHES PRODUCTS INC ; DEPUY SYNTHES PRODUCTS LLC ; DEPUY SYNTHES PRODUCTS LLC325 PARAMOUNT DRIVERAYNHAMMA02767-0350US

Inventor(s): (std): CARLOS MCGARITY OWEN ; GRIFFITHS BRYAN ; JAMES GRIFFITHS BRYAN ; MCGARITY OWEN C ; MCGARITY OWEN CARLOS ; GRIFFITHS BRYAN JAMES

Inventor(s): MCGARITY OWEN CARLOSUS ; OWEN CARLOS MCGARITY ; MCGARITY OWEN ; GRIFFITHS BRYAN JAMESUS ; BRYAN JAMES GRIFFITHS

Agent(s): SHELSTON IP; SHELSTON IP PTY LTD; OGILVY RENAULT LLP SENCRL SRL; NORTON ROSE FULBRIGHT CANADA LLP SENCRL SRL; LUSUARDI WERTHER; WOODCOCK WASHBURN LLP

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

8) Family number: 24043147 (US5254005A)

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Title: Dental implant system and method

Abstract: An implant assembly and method is provided, as well as a system and method for exposing an embedded implant after osseointegration has taken place. The implant assembly comprises an implant member for embedding in the jaw and a rest factor member for securing to the implant member, the rest factor member having an upper rest surface just above the tissue level for opposing an overlying portion of a prosthesis anchored elsewhere in the jaw to form a nonretentive rest or support for accepting down pressure from the prosthesis. The implant member is relatively short and can be installed in distal jaw regions without interference with the mandibular nerve, and has an undersurface having a shape designed for stable integration with the bone while resisting sideways. The method includes cutting out a bore in the jaw for receiving the implant, inserting the implant and an attached healing screw in the implant, closing the implant site and allowing osseointegration to take place over an extended period, and subsequently uncovering the implant site, removing the healing screw, and securing the rest factor member in the implant.

Classifications:

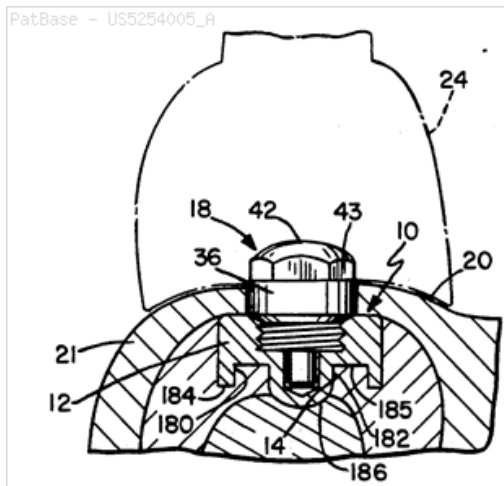
International (IPC 8-9): A61C8/00 (Advanced/Invention); A61C8/00 (Core/Invention)

International (IPC 1-7): A61C8/00

CPC: A61C8/0018 A61C8/0025 A61C8/0089

European: A61C8/00F A61C8/00F2M A61C8/00T

US: 433/173 433/174



Family:

Publication number	Publication date	Application number	Application date
AT174494 E	19901115	AT19940305710T	19940802
CA2029781 AA	19910515	CA19902029781	19901113
DE69021536 D1	19950914	DE19906021536	19901113
DE69021536 T2	19960118	DE19906021536T	19901113
DE69415240 D1	19990128	DE19946015240	19940802
DE69415240 T2	19990819	DE19946015240T	19940802
EP0437031 A1	19910717	EP19900312360	19901113
EP0437031 B1	19950809	EP19900312360	19901113
EP0641549 A2	19950308	EP19940305710	19940802
EP0641549 A3	19951004	EP19940305710	19940802
EP0641549 B1	19981216	EP19940305710	19940802
US5254005 A	19931019	US19910751661	19910822
US5591029 A	19970107	US19930102353	19930805
USRE37646 E	20020409	US19990226743	19990107

Priority:

US19890436432 19891114 CA19902029781 19901113 US19910751661 19910822
US19920861183 19920331 US19930102353 19930805 US19990226743 19990107

Probable Assignee: CENTERPULSE DENTAL INC

Assignee(s): (std): SULZER DENTAL INC ; ZUEST MAX ; ZEST ANCHORS ; ZEST ANCHORS INC

Assignee(s): ZEST ANCHORS INC ESCONDIDO CALIF US ; ZIMMER DENTAL INC ; ZUEST MAX ESCONDIDO CALIF US ; UBS STAMFORD BRANCH SECURITY AGENT FOR SECURED PARTIES AG AS ; CENTERPULSE DENTAL INC ; CENTERPULSE USA INC ; CORE VENT CORP ; UBS AG ; SULZER CALCITEK INC ; UBS STAMFORD BRANCH SECURITY AGENT FOR SECURED PAR

Inventor(s): (std): ZUEST MAX

Inventor(s): ZUEST MAX SAN DIEGO CALIFORNIA 92106 US ; ZUEST MAX ESCONDIDO CALIF US ; ZUEST MAX ESCONDIDO CALIF

Agent(s): SMART AND BIGGAR

Designated states: AT BE CH DE DK ES FR GB GR IE IT LI LU MC NL PT SE

9) Family number: 4285152 (US4439152A)

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Title: Method of jawbone abutment implant for dental prostheses and implant device

Abstract: The method of implanting an abutment device to a jawbone for anchoring a dental prosthesis comprises surgically cutting gum tissue, turning back adjacent tissue exposing the jawbone, drilling into the bone, assembling a hollow porous cylinder of titanium **wire** mesh having threaded therein a temporary nylon plug into the jawbone, reassembling the gum tissue to overlie the cylinder and plug. Retaining the cylinder for a healing period of several months while adjacent bone tissue grows into, around and through the cylinder mesh for a mechanical interlock therewith for anchoring the cylinder with the jawbone. Surgically reexposing the cylinder, removing the plug from the cylinder and successively threading therein an abutment device, an axial portion thereof projecting from the jawbone and gum tissue to which a dental prosthesis may be attached. A jawbone implant comprises a hollow porous cylinder of titanium **wire** mesh having a threaded bore with a nylon plug threaded therein for projecting into an aperture in a jawbone. After a healing period while bone tissue migrates into and through the mesh for a mechanical interlock, an abutment device replaces the plug and has an axial portion projecting from the jawbone to which a dental prosthesis is attached. A modified method after exposing the jawbone includes applying to the exposed bone a pair of spaced cylinders of **wire** mesh with an interconnecting strip of similar mesh, the cylinders having a temporary nylon plug threaded thereinto, and applying a strip of open mesh plastic or titanium **wire** to the cylinders, assembling and clamping portions of the open mesh strip to surround the cylinders retaining the cylinders and interconnected mesh strip of material upon the bone. Successively exposing the cylinders, unthreading the plugs and threading into each cylinder an abutment, to which a dental prosthesis may be attached. A jawbone implant device therefore.

Classifications:

International (IPC 8-9): A61C8/00 (Advanced/Invention);

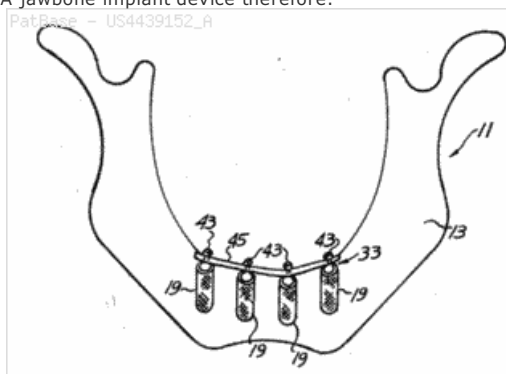
A61C8/00 (Core/Invention)

International (IPC 1-7): A61C8/00

CPC: A61C8/00 A61C8/005 A61C8/0054 A61C8/0057 A61C8/0065

European: A61C8/00 A61C8/00G1 A61C8/00G1C A61C8/00G1M K61C8/00G1E

US: 128/92C 433/173 433/174



Family:

Publication number	Publication date	Application number	Application date
US4439152 A	19840327	US19820354789	19820304

Priority:

US19820354789 19820304

Probable Assignee: SMALL IRWIN A

Assignee(s): (std): SMALL IRWIN A

Inventor(s): (std): SMALL IRWIN A

10) Family number: 12698186 (US5542847A)

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Title: Method, apparatus and device for dental prosthesis implantation

Abstract: A dental implant, placed into a socket formed in the jaw bone, is held in position by screws that pass through the jaw bone from the buccal cortical surface to the lingual cortical surface, and through the implant that is located between the cortical surfaces. Threads on the screw shank form and engage threads in the cortex on opposite sides of the jaw bone. The implant, when inserted in the socket and anchored by the screws, is immediately strongly held to the jaw's bony structure. Stresses applied to a prosthetic device, e.g., a tooth crown that is attached to the implant, are substantially borne by the cortex by way of the screws.

Classifications:

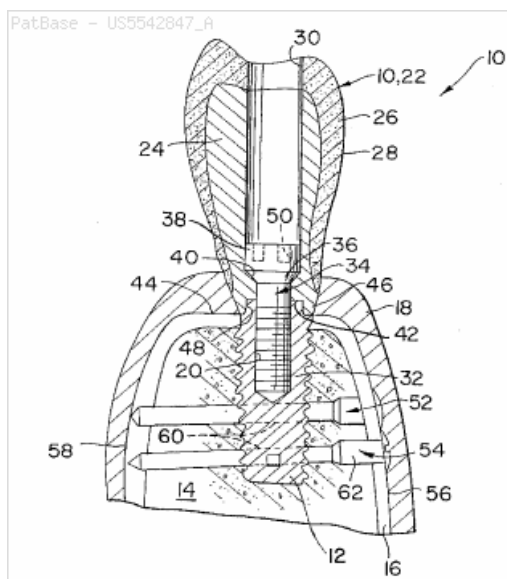
International (IPC 8-9): A61C1/08 A61C8/00 (Advanced/Invention);
A61C1/08 A61C8/00 (Core/Invention)

International (IPC 1-7): A61C8/00

CPC: A61C1/084 A61C8/0009 A61C8/001

European: A61C1/08F1 A61C8/00C2 A61C8/00D

US: 433/173 433/174 433/176



Family:

Publication number	Publication date	Application number	Application date
US5542847 A	19960806	US19940303438	19940909

Priority:

US19940303438 19940909

Probable Assignee: KADAR AVRAHAM

Assignee(s): (std): KADAR AVRAHAM ; MARGULIES JOSEPH Y

Assignee(s): MARGULIES JOSEPH

Inventor(s): (std): MARGULIES JOSEPH Y

11) Family number: 8675188 (US5836768A)

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Title: Fastening device for fixing orthodontic apparatuses on a dental implant

Abstract: PCT No. PCT/CH95/00303 Sec. 371 Date Sep. 2, 1997 Sec. 102(e) Date Sep. 2, 1997 PCT Filed Dec. 22, 1995 PCT Pub. No. WO96/19946 PCT Pub. Date Jul. 4, 1996For a dental implant (10) which can be inserted into the jaw bone (1) and which is intended principally as a support for a crown or another superstructure, an anchoring base (30) which s can be fitted releasably on the implant (10) was created for the purpose of preliminary orthodontic treatment. The vertical outer sides of the anchoring base (30) are designed as fastening surfaces (31). A bracket (50) can be fixed on a selected fastening surface (31) by means of a bonding layer (60). Orthodontic apparatus components (70, 71) are fastened on this bracket (50). The anchoring base (30) is screwed onto the implant (10) using an occlusal screw (80) and in the process can be locked in a finely adjustable position of rotation. The eccentrically arranged bore (37) promotes adaptation to the spatial conditions and to the orthodontic task. The anchoring base (30) is suitable for a wide range of types of implants (10) and brackets (50). Once the correction of the positioning of the teeth is complete, the anchoring base (30), which is made of titanium and is re-usable, can be removed in a simple manner from the implant (10). By means of the preferred adhesive bonding connection, galvanic corrosion between the stainless steel bracket (50) and the anchoring base (30) is substantially ruled out.

Classifications:

International (IPC 8-9): A61C7/00 A61C7/20

A61C8/00 (Advanced/Invention);

A61C7/00 A61C8/00 (Core/Invention)

International (IPC 1-7): A61C A61C07/00 A61C08/00 A61C7/00

A61C7/20 A61C8/00

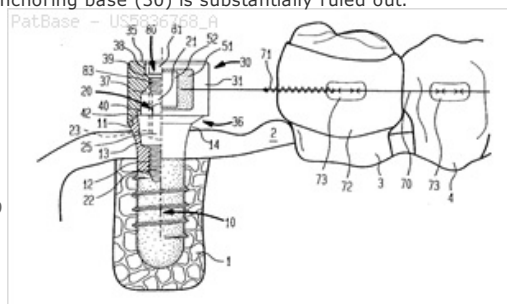
CPC: A61C7/00 A61C8/00 A61C8/0096

European: A61C7/00 A61C8/00 K61C8/00W4

US: 433/172 433/173 433/24 433/8

JP F-Term: 4C052 4C052/AA20 4C052/JJ06 4C052/JJ07 4C052/JJ09 4C052/JJ10 4C059 4C059/AA01 4C059/AA08 4C159 4C159/AA01

JP F-Index: A61C7/00/A A61C7/00/Z A61C7/26 A61C8/00/Z



Family:

Publication number	Publication date	Application number	Application date
AR000534 AA	19970710	AR19950334791	19951222
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EP0798991 B1	19980729	EP19950940930	19951222
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IL116524 A0	19960331	IL19950116524	19951222
JP10511286 T2	19981104	JP19960520099T	19951222
KR19987000820 A	19980430	KR19977004286	19951222
MX9704648 A1	19970930	MX19970004648	19951222
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WO9619946 A1	19960704	WO1995C00303	19951222

Priority:

CH19940003921 19941223 WO1995C00303 19951222

Probable Assignee: STRAUMANN HOLDING AG

Assignee(s): (std): DIEDRICH PETER ; GLATZMAIER JUERGEN ; HUESKENS CHRISTOPH ; INST STRAUDMANN A G ; STRAUMANN INST AG ; MUNDWILER ULRICH ; SUTTER FRANZ

Assignee(s): STRAUMANN AG INST ; STRAUDMANN AG INST ; STRAUMANN HOLDING AG ; INSTITUT STRAUDMANN A G ; INSTITUT STRAUMANN AG ; INSTITUT STRAUMANN AG WALDENBURG CH

Inventor(s): (std): DIEDRICH PETER ; GLATZMAIER JUERGEN ; GLATZMAIER JURGEN ; HUESKENS CHRISTOPH ; HUSKENS CHRISTOPH ; MUNDWILER ULRICH ; SUTTER FRANZ

Inventor(s): SUTTER FRANZ CH 4435 NIEDERDORF CH ; ULRICH MUNDWILER ; MUNDWILER ULRICH CH 4456 TENNIKEN CH ; PETER DIEDRICH ; JUERGEN GLATZMAIER ; JURGEN GLATZMAIER ; HUESKENS CHRISTOPH CH 8044 ZUERICH CH ; GLATZMAIER JUERGEN D 80637 MUENCHEN DE ; DIEDRICH PETER D 52057 AACHEN DE ; FRANZ SUTTER ; CHRISTOPH HUESKENS ; CHRISTOPH HUSKENS

Designated states: AT AU BE BR CA CH DE DK ES FR GB GR IE IT JP KR LI LU MC MX NL NZ PT SE US

12) Family number: 12416204 (US5496256A)

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Title: Ultrasonic bone healing device for dental application

Abstract: Non-invasive apparatus for accelerating the process of jawbone healing and regeneration, reattachment of traumatically loosened teeth to the jawbone, or osseointegration of implants in a patient, including at least one piezoelectric transducer and connections to transmit ultrasonic frequency electrical current to the piezoelectric transducer. The ultrasonic frequency electrical current transmitted to the piezoelectric transducer causes the transducer to contract and expand volumetrically in response to a changing electrical field to generate pressure wave vibrations of ultrasonic frequency that are coupled to the bone.

Classifications:

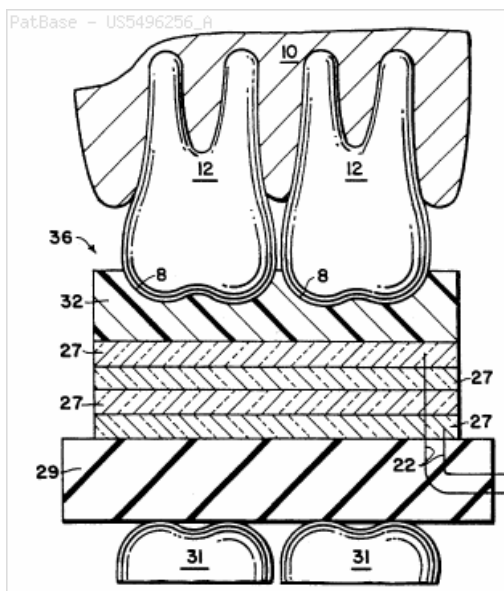
International (IPC 8-9): A61C8/00 A61N7/00 (Advanced/Invention); A61F2/28 (Advanced/Non-invention)

International (IPC 1-7): A61B17/56 A61C19/06 A61C8/00 A61F5/00

CPC: A61C8/00 A61F2002/2864 A61N7/00

European: A61C8/00 A61N7/00 K61F2/28M2

US: 433/174 433/215 601/2 607/51



Family:

Publication number	Publication date	Application number	Application date
US5496256 A	19960305	US19940257773	19940609
WO9533416 A1	19951214	WO1994US11233	19941005

Priority:

US19940257773 19940609

Probable Assignee: SONEX INT CORP

Assignee(s): (std): LUCA JOHN P DE ; SONEX INT CORP ; BOCK ROBERT T

Assignee(s): DE LUCA JOHN P ; FAMILY PRODUCTS INC ; HARBINGER CAPITAL PARTNERS MASTER FUND I LTD ; BANK OF NEW YORK ; SONEX INT ; WELLS FARGO FOOTHILL INC ; SALTON INC ; TOASTMASTER INC ; SALTON TOASTMASTER LOGISTICS LLC ; HOME CREATIONS DIRECT LTD ; ICEBOX LLC ; SALTON HOLDINGS INC

Inventor(s): (std): BOCK ROBERT T ; DE LUCA JOHN P ; DELUCA JOHN P

Designated states: AT BE BR CA CH DE DK ES FR GB GR IE IT JP KR LU MC NL NO PT SE

13) Family number: 42021246 (US2011008751A)

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Title: METHOD AND SYSTEM FOR DENTAL PLANNING AND PRODUCTION

Abstract: A method and system useful for planning a dental restorative procedure of a patient and for producing at least one dental restoration or product related thereto to be used in said dental restorative procedure are disclosed. Input data

from different sources, e.g. 3D data from a CT scan of a patient with a dental impression tray including a previously prepared dental impression of the patient in the patient's mouth, is matched with data from a high resolution 3D scan of the same dental impression. The resulting data is for instance matched by means of fiducial markers arranged at the dental impression tray. Thus reliable planning and production are enabled by means of the same, matched data set. In this manner the dosage to which the patient is exposed to may be reduced in comparison to previous methods.

Classifications:

International (IPC 8-9): A61C1/08 A61C13/00 A61C13/34
A61C19/04 A61C5/10 A61C5/77 A61C8/00

A61C9/00 (Advanced/Invention);

A61C13/00 A61C9/00 (Core/Invention)

International (IPC 1-7): A61C13/00 A61C9/00

CPC: A61C5/77 A61C1/084 A61C13/0004 G16H20/40

European: A61C1/08F1 K61C13/00C1

US: 433/167 433/167P 433/213 433/213S

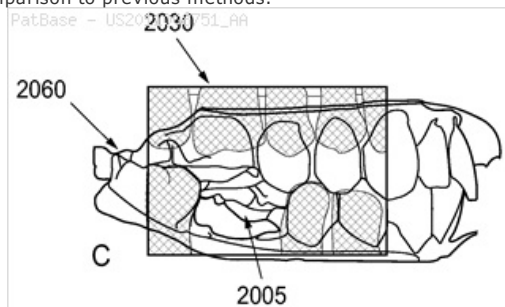
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4C059/AA01 4C059/BB01 4C059/RR15 4C159 4C159/AA41

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A61C8/00/Z A61C9/00/A



Family:

Publication number	Publication date	Application number	Application date
AU2007343330 AA	20080717	AU20070343330	20070117
AU2007343330 BB	20130801	AU20070343330	20070117
BRPI0720906 A2	20130326	BR2007PI20906	20070117
BRPI0720906 B1	20190306	BR2007PI20906	20070117
CN101578076 A	20091111	CN200780049557	20070117
CN101578076 B	20131023	CN200780049557	20070117
EP2101678 A1	20090923	EP20070726200	20070117
IN02461KN2009 A	20141031	IN2009KN02461	20090703
JP2011510685 T2	20110407	JP20090545114T	20070117
JP5374382 B2	20131225	JP20090545114T	20070117
US2011008751 AA	20110113	US20070522706	20070117
US10206757 BB	20190219	US20070522706	20070117
WO08083857 A1	20080717	WO2007EP50426	20070117

Priority:

SE20070000043 20070110 WO2007EP50426 20070117

Probable Assignee: NOBEL BIOCARE SERVICES AG

Assignee(s): (std): NOBEL BIOCARE SERVICES AG ; PETTERSSON ANDREAS

Inventor(s): (std): ANDREAS PETTERSSON ; PETTERSSON ANDREAS

Agent(s): WATERMARK PATENT AND TRADE MARKS ATTORNEYS; WATERMARK INTELLECTUAL PROPERTY PTY LTD; BYSTROEM KURT LINUS; KNOBBE MARTENS OLSON AND BEAR LLP; BYSTROEM LINUS

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM 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 MG MK ML MN MR 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 SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

14) Family number: 31781257 (US2004087954A)

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Title: SYSTEMS, METHODS, AND APPARATUSES FOR CLAMPING AND RECLAMPING AN ORTHOPEDIC SURGICAL CABLE

Abstract: Systems, methods, and apparatuses for clamping and reclamping an orthopedic surgical cable used in conjunction with an orthopedic implant device, a bone, and/or bone implant or structure. At least one apparatus and system in accordance with various embodiments of the invention include a clamping body adapted to positioning within a patient's body; and a clamping mechanism adapted to securing an orthopedic cable to the clamping body, creating a first tension in the orthopedic cable, releasing the tension in the orthopedic cable, and re-securing the orthopedic cable relative to the clamping body to secure another tension in the orthopedic cable. A sequence for a method in accordance with various embodiments the invention includes providing a surgical cable clamp and an orthopedic surgical cable. Next, mounting a portion of the surgical cable to the surgical cable clamp. Next, applying a force to the portion of the surgical cable so that the surgical cable is secured relative to the surgical cable clamp with a first tension in the surgical cable. Then releasing the force on the extended portion of the surgical cable so that the surgical cable can be repositioned relative to the surgical cable clamp. Finally, applying another force to the extended portion of the surgical cable so that the surgical cable is again secured relative to the surgical cable clamp.

Classifications:

International (IPC 8-9): A61B17/56 A61B17/58 A61B17/68

A61B17/70 A61B17/80 A61B17/82 A61B17/84 A61B17/86

A61B17/88 A61F2/30 (Advanced/Invention);

A61B17/00 A61B17/58 A61B17/86 (Advanced/Non-invention);

A61B17/58 A61B17/68 A61F2/30 (Core/Invention)

International (IPC 1-7): A61B17/56 A61B17/58 A61B17/80

A61B17/82

CPC: A61B17/82 A61B17/842 Y10S606/915 A61B17/863

A61B2017/00004 A61B17/8057 A61B17/8014 A61B17/8061

A61B17/8085 A61B17/8605

European: A61B17/80 A61B17/80A2 A61B17/80F2 A61B17/80H

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US: 606/103 606/280 606/280P 606/280S 606/281 606/281P 606/282 606/282S 606/286 606/286P 606/286S 606/289

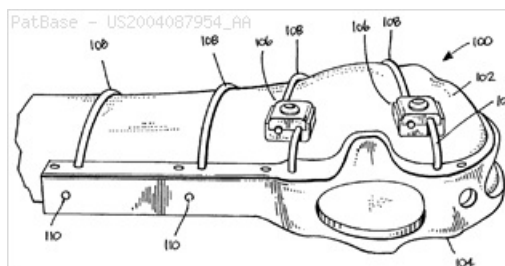
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JP F-Index: A61B17/58 A61B17/80 A61B17/82 A61B17/84 A61B17/86 A61B17/58/310 A61B17/56 A61B17/122



Family:

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Probable Assignee: SMITH AND NEPHEW PLC

Assignee(s): (std): ALLEN C W ; ALLEN C WAYNE ; AUSTIN GENE E ; AUSTIN GENE EDWARD ; BELEW KEVIN ; BERGIN ALISHA ; FREDERICK PHIL ; JONES JERRY L ; KELMAM DAVID C ; LAMBERT RICHARD D ; KELMAN DAVID C ; GERLACH DARIN ; JAMES ANTHONY ; HARMON JON A ; BLACK BRIAN L ; GERLACH DARIN S ; JAMES ANTHONY H ; JANNA SIED W ; MC LEAN TERRY ; SHEA JEFFREY J ; MCLEAN TERRY ; SMITH AND NEPHEW INC ; RAINS JAMES K ; PETTEYS TIMOTHY J ; SCHNEIDER JOHN B ; SMITH AND NEPHEW PLC

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TERRY MC ; LAMBERT RICHARD D ; KELMAM DAVID C ; JONES JERRY L ; JANNA SIED W ; JAMES ANTHONY H ; HARMON JON A ; GERLACH DARIN S ; BLACK BRIAN L ; AUSTIN GENE EDWARD ; AUSTIN GENE E ; SHEA JEFFREY ; LAMBERT RICHARD ; KELMAM DAVID ; JONES JERRY ; PHIL FREDERICK ; RAINS JAMES ; RICHARD D LAMBERT ; SCHNEIDER JOHN ; ALLOEN C WAYNE ; JANNA SI W ; HARMON JON ANDREW ; FREDERICK PHIL ; BERGIN ALISHA ; BELEW KEVIN ; ALLEN C WAYNE ; TERRY MC LEAN

Inventor(s):

TERRY MCLEAN ; SCHNEIDER JOHN B MEMPHIS ; RAINS JAMES K CORDOVA ; C WAYNE ALLOEN ; PETTEYS TIMOTHY J MILLINGTON ; JANNA SI W MEMPHIS ; C WAYNE ALLEN ; HARMON JON ANDREW BYHALIA ; AUSTIN GENE EDWARD SHELTON

Agent(s):

GRIFFITH HACK ; DAVIES COLLISON CAVE PTY LTD ; BORDEN LADNER GERVAIS LLP ; MURGITROYD AND CO ; SMITH AND NEPHEW ; DE ELZABURU ALBERTO ; MASUI CHUJI ; ONO SHINJIRO ; SHAMOTO ICHIO ; KOBAYASHI YASUSHI ; TOMITA HIROYUKI ; CHIBA AKIO ; CHIEF PATENT COUNSEL SMITH AND NEPHEW INC ; DIANA HOUSTON SMITH AND NEPHEW INC ; KILPATRICK STOCKTON LLP ; FISH AND RICHARDSON PC

Designated states:

AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR 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 MG MK ML MN MR MW MX 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 SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

15) Family number: 11712291 (US5361506A)

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Title: Jaw opening measurement device

Abstract: A measurement device is provided for measuring the degree of mandibular movement during therapy following maxillofacial surgery or to otherwise accomplish measurement of jaw movement. The measurement device is in the form of a flat object having a rounded end and defining a reference depression for receiving the incisal edge of the teeth of either the mandibular or maxillary arches. The measurement device includes a curved end and a slightly curved top which are provided with indicia to indicate the degree of jaw opening by comparing the location of an incisal edge with respect to the indicia. The measurement device along a straight end is provided with measurement indicia to enable effective measurement of lateral jaw movement and to accomplish measurement of movement relative to the occlusal plane of the patient's dentition.

Classifications:

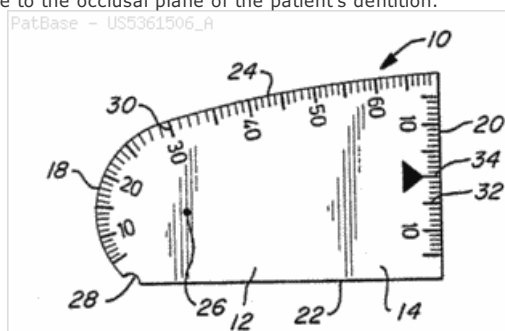
International (IPC 8-9): A61C19/04 (Advanced/Invention);
A61C19/04 (Core/Invention)

International (IPC 1-7): A61B5/103 A61C19/04 G01B3/14 G01B5/14

CPC: A61C19/04

European: A61C19/04

US: 128/777 33/512 33/514 33/563 335/120 600/590



Family:

Publication number	Publication date	Application number	Application date
US5361506 A	19941108	US19930067748	19930526

Priority:

US19910810023 19911219 US19930067748 19930526

Probable Assignee: ATOS MEDICAL AB

Assignee(s): (std): THERABITE CORP

Assignee(s): ATOS MEDICAL AB ; DNB NOR BANK ASA NORGE FILIAL SVERIGE

Inventor(s): (std): BEEUWKES III REINIER

16) Family number: 15649320 (US2003050641A)

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Title: APPARATUS FOR INTRAORAL DISTRACTION OSTEOTOMY TO WIDEN THE UPPER JAW

Abstract: The technique of surgically assisted rapid palatal expansion comprises force application indirectly to the jaw by means of an expansion device fixed to the teeth by means of acrylic pads, or orthodontic bands on the premolar or molar teeth. The problems, being movements of teeth and relapse at the bone level during and after the expansion, necessitating over-expansion; the low level of force application leading to tipping of the teeth and the jaw-segments; and the postponement of further orthodontic treatment till after removal of the expansion device; and the limited expandability of the device, necessitating the fabrication of a new device in case of very narrow jaws, have been solved with the invention. The forces apply via metal bone-plates (1,2) directly at a higher level. Interchangeable modules (composition of 3, 4, 5) of different sizes allow to continue expansion once one module has reached the limit of its expansion.

Classifications:

International (IPC 8-9): A61B17/58 A61B17/66

A61C7/10 (Advanced/Invention);

A61C8/00 (Advanced/Non-invention);

A61B17/58 A61B17/60 A61C7/00 (Core/Invention);

A61C8/00 (Core/Non-invention)

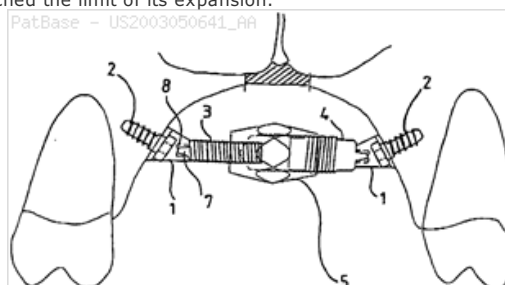
International (IPC 1-7): A61B17/56 A61B17/58 A61B17/66

A61B17/68 A61C7/10

CPC: A61B17/663 A61C7/10 A61C8/0096

European: A61B17/66J A61C7/10 K61C8/00W4

US: 606/105 606/282 606/320 606/328 606/57 606/71 606/73 606/90 606/90P



Family:

Publication number	Publication date	Application number	Application date
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DE20122337 U1	20050609	DE20012022337U	20010111
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EP1250100 A2	20021023	EP20010900447	20010111
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Priority:

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Probable Assignee: SYNTHES USA LLC

Assignee(s): (std): MOMMAERTS MAURICE YVES ; SYNTHES USA LLC

Assignee(s): SYNTHES GMBH ; SYNTHES USA ; SYNTHES ; SYNTHES (USA) ; MAURICE YVES MOMMAERTS ; MOMMAERTS MAURICE Y

Inventor(s): (std): MOMMAERTS MAURICE YVES ; MOMMAERTS MAURICE Y

Inventor(s): MOMMAERTS MAURICE ; MAURICE YVES MOMMAERTS

Agent(s): LADAS AND PARRY; WOODCOCK WASHBURN 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: 44247342 (US2010016858A)

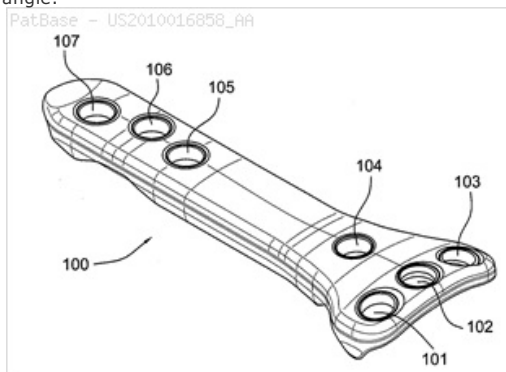
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Title: CARBON FIBER REINFORCED PEEK BONE PLATE WITH TITANIUM FIXATION SCREWS

Abstract: Apparatus and methods for tissue fixation using a bone plate configured to accommodate fixation devices (such as screws, for example) inserted at various angles. The bone plate is formed of a material softer than the material of the fixation devices, and is provided with fixation holes with rounded, curved interior walls (i.e., non-threaded holes) that allow the fixation devices to be inserted at various angles. The fixation holes have a diameter smaller than that of the fixation devices. As a result of the difference between the materials of the plate and of fixation devices, and of the difference between the diameters of the fixation holes and of the fixation devices, the fixation devices deform the interior walls of the fixation holes, therefore self-threading the holes at an advantageous angle.

Classifications:

International (IPC 8-9): A61B17/80 (Advanced/Invention); A61B17/02 A61B17/17 A61B17/86 (Advanced/Non-invention); A61B17/68 (Core/Invention)
CPC: A61B17/1728 A61B17/1764 A61B17/8095 A61B17/8605 A61B17/8635 A61B2017/0256 A61B17/8061 A61B17/8057
European: A61B17/80F2 A61B17/80H K61B17/02J2 K61B17/17P K61B17/86A K61B17/86B4
US: 1/1 606/280 606/298 606/298S 606/70 606/70P



Family:

Publication number	Publication date	Application number	Application date
DE602009011885 D1	20130207	DE200960011885T	20090720
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EP2510893 A1	20121017	EP20120176420	20090720
US2010016858 AA	20100121	US20090504130	20090716
US2015282851 AA	20151008	US20150744953	20150619
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Priority:

US20080082408P 20080721 US20090504130 20090716 EP20090445016 20090720
US20150744953 20150619

Probable Assignee: ARTHREX INC

Assignee(s): (std): ARTHREX INC ; MICHEL GERLINDE

Assignee(s): ARTHREX INC NAPLES

Inventor(s): (std): MICHEL GERLINDE

Agent(s): LOHR JOESTINGMEIER AND PARTNER; JANSON RONNY; LOHR GEORG; DICKSTEIN SHAPIRO LLP; CARLSON GASKEY AND OLDS

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

18) Family number: 11158383 (US5066224A)

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Title: Orthodontic anchor

Abstract: An orthodontic anchor system 20 for treatment of growth disharmony and malalignment of teeth in which one element is surgically placed in a subperiosteal tunnel on the skeletal bone, allowing biointegration between the onplant bone interface 30 and the bone, after which a palatal bar 24 is attached to the orthodontic anchor system 20, and the palatal bar 24 is also attached to bands 25 around two teeth, holding them non-mobile, permitting the orthodontist to treat the malalignment of the teeth.

Classifications:

International (IPC 8-9): A61B17/66 A61B17/68 A61B17/80 A61C13/235 A61C3/00 A61C7/00 A61C8/00 A61F2/00 A61F2/30 A61F2/58 (Advanced/Invention); A61B17/80 A61C13/235 A61F2/00 A61F2/30 A61F2/58 (Advanced/Non-invention); A61B17/60 A61B17/68 A61C7/00 A61C8/00 (Core/Invention); A61C13/225 A61F2/00 A61F2/30 A61F2/50 (Core/Non-invention)

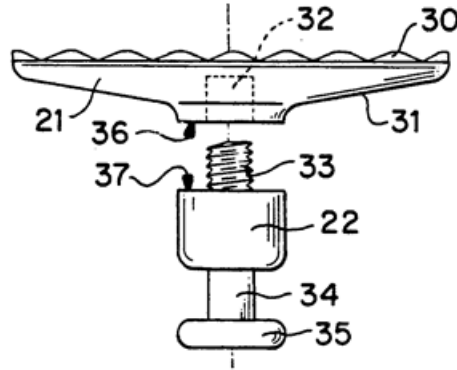
International (IPC 1-7): A61B17/16 A61B17/18 A61B17/60 A61C3/00 A61C7/00 A61C7/00 A61C8/00 A61C8/00 A61F2/28

CPC: A61B17/663 A61B17/68 A61B17/80 A61C7/00 A61C8/0031 A61C8/0081 A61C8/0096 A61C13/235 A61F2/0077 A61F2/30749 A61F2/30767 A61F2/586 A61F2220/0008 A61F2310/00023 A61F2310/00796

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US: 433/173 433/18 433/201.1 433/24 433/7 606/60

PatBase - US5066224_A

**Family:**

Publication number	Publication date	Application number	Application date
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Priority:

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Probable Assignee: NOBEL BIOCARE AB A OF SWEDEN CORP

Assignee(s): (std): DARMAN INC ; DARMAN INC ; HOFFMAN DAVID R ; NOBEL BIOCARE AB ; BLOCK MICHAEL ; NOBEL BIOCARE AB PUBL GOETEBUR ; OASIS IMPLANTS INC ; UNIV LOUISIANA STATE

Assignee(s): OASIS IMPLANTS INC ; OASIS IMPLANTS INC A CORP OF LA ; NOBEL BIOCARE AB GOETEBORG SE ; MICHAEL BLOCK ; NOBEL BIOCARE AB A OF SWEDEN CORP ; NOBELPHARMA AB ; BOARD OF SUPERVISORS OF LOUISIANA STATE UNIV ; BOARD OF SUPERVISORS OF LOUISIANA STATE UNIV AND A ; BOARD OF SUPERVISORS OF LOUISIANA STATE UNIV AND AGRICULTURAL AND MECHANICAL COLLEGE ; NOBEL BIOCARE PUBL GOETEBUR AB ; LOUISIANA STATE UNIV ; NOBEL BIOCARE A CORP AB ; NOBEL BIOCARE A AB CORP ; HOFFMAN INC ; NOBEL BIOCARE AB PUBL ; NOBEL BIOCARE AB PUBL GOETEBURG GOETEBORG

Inventor(s): (std): BLOCK MICHAEL ; BLOCK MICHAEL S ; HOFFMAN DAVID R ; HOFFMAN DECEASED DAVID R ; HOFFMAN JOAN M ; KVARNSTROEM BJARNE

Inventor(s): MICHAEL BLOCK ; DAVID R HOFFMAN ; BLOCK MICHAEL METAIRIE LA 70002 US

Agent(s): PIZZEYS ; PIZZEYS PATENT AND TRADE MARK ATTORNEYS PTY LTD ; OSLER HOSKIN AND HARCOURT LLP

Designated states: AT AU BE CA CH DE DK ES FI FR GB GR IE IT JP LI LU MC NL PT RU SE

19) Family number: 30584388 (US2003105469A)

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Title: BIORESORBABLE INFLATABLE DEVICES, INCISION TOOL AND METHODS FOR TISSUE EXPANSION AND TISSUE REGENERATION

Abstract: Bioresorbable inflatable devices and tunnel incision tool and methods for treating and enlarging a tissue or an organ or a tube or a vessel or a cavity. The device is composed of a hollow expanding pouch made of a resorbable material or a perforated material that can be attached to a filling element. The pouch can be filled with a biocompatible materials, one or more times in few days interval, after the insertion of the device. While filling the pouch every few days the tissue expands and the filling material if it is bioactive start to function. The tunnel incision tool composed of a little blade that emerges from the surface of the tool in order to make shallow incisions in the surrounding tissue therefore enabling easy expansion of the tissue. This device and method can be used for example for: horizontal and vertical bone augmentation in the jaws and the tunnel incision tool is used to make shallow incisions in the periosteum when using the tunnel technique, sinus augmentation when the device is placed beneath the Schneiderian tissue, vessels widening if the pouch become a stent, fixing bone fractures etc.

Classifications:

International (ipc 8-9): A61B17/00 A61B17/16 A61B17/56 A61B17/58 A61B17/66 A61B17/68 A61B17/70 A61B17/72 A61B17/74 A61B17/88 A61B19/00 A61B90/00 A61C A61C13/00 A61C13/225 A61C13/38 A61C19/06 A61C8/00 A61C8/02 A61F11/00 A61F2/00 A61F2/02 A61F2/06 A61F2/28 A61F2/30 A61F2/36 A61F2/44 A61F2/46 A61F2/82 A61F2/84 A61L27/00 A61M29/00 A61M29/02 A61M31/00 (Advanced/Invention); A61B17/00 A61B17/66 A61B17/70 A61B17/74 A61B19/00 A61C8/00 A61C8/02 A61F2/00 A61F2/02 A61F2/28 A61F2/30 A61F2/36 A61F2/44 A61F2/46 A61L27/00 (Advanced/Non-invention); A61B17/00 A61B17/56 A61B17/58 A61B17/60 A61B17/68 A61B17/88 A61B19/00 A61C8/00 A61F11/00 A61F2/02 A61F2/28 A61F2/30 A61F2/44 A61F2/46 A61M29/00 (Core/Invention); A61B17/00 A61B17/60 A61B17/70 A61B19/00 A61F2/00 A61F2/02 A61F2/28 A61F2/36 A61F2/44 (Core/Non-invention); A61C A61L (Subclass/Invention)

International (ipc 1-7): A61B17/00 A61B17/56 A61B17/58 A61B19/00 A61C13/00 A61C13/38 A61C3/00 A61C8/00 A61F2/02 A61F2/28 A61F2/44 A61L27/00 A61M29/02

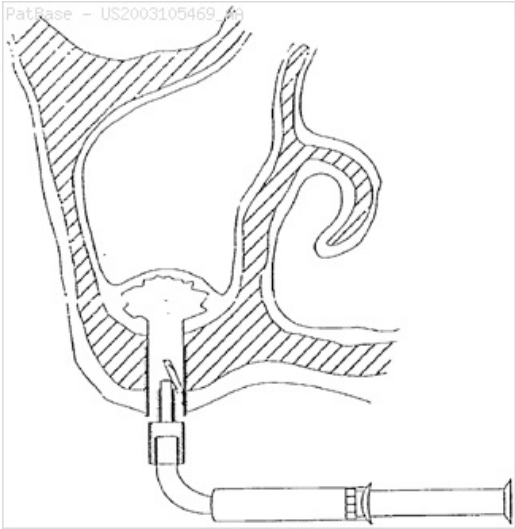
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European: A61B17/02J A61B17/16S18 A61B17/16S6 A61B17/58 A61B17/66J2 A61B17/68 A61B17/70L A61B17/70V A61B17/70V2 A61B17/72E6 A61B17/72G A61B17/88A A61B17/88A2C A61B17/88A2H A61B17/88C2B A61B19/24 A61C8/00C1A A61C8/00C2 A61C8/00F30G A61C8/00T3 A61F2/06S A61F2/28S A61F2/30B1 A61F2/30B2 A61F2/30B6 A61F2/46A A61F2/82 K61B17/00A K61B17/00N8 K61B17/02J2 K61B17/66J2 K61B17/74D K61B19/54 K61C8/00C1A K61F2/00W93 K61F2/28B2 K61F2/28D K61F2/28F1 K61F2/28F2 K61F2/28G K61F2/28S3 K61F2/28S4 K61F2/28S5 K61F2/30A1N4 K61F2/30A1W1 K61F2/30A1W20 K61F2/30A1W5 K61F2/30A1W6 K61F2/30A1W9 K61F2/30A3T1M4L K61F2/30A3T35D K61F2/30A3W18 K61F2/30A3W28 K61F2/30A5D K61F2/30B6S K61F2/30L11 K61F2/30L3 K61F2/30L4S K61F2/30L7 K61F2/36 K61F2/36C2G K61F2/36D K61F2/36D6 K61F2/44 K61F2/46A K61F2/46B30 K61F2/46C K61F210/00A K61F210/00D K61F210/00E K61F210/00F K61F220/00T K61F220/00T1 K61F250/00N2 K61F250/00W3 K61F250/00W5 K61F250/00W99C K61F310/00A2A K61F310/00A2E K61F310/00A2R40 K61F310/00A2R73 K61F310/00A4 K61F310/00A6 K61F310/00L2E K61F310/00L6E

US: 128/898 424/426 424/426S 433/172 433/172P 433/173 433/173S 433/174 433/174 433/215 433/80 433/80P 523/115 523/115S 606/108 606/108S 606/192 606/192P 606/192S 606/76 606/76P 606/79 606/79S 606/86.00R 606/86R 606/92 606/92P 606/93 606/93S 623/16.11 623/17.11 623/17.110S 623/17.17 623/23.61 623/23.610P 623/23.610S 623/23.67 623/23.72 623/23.75 623/23.76 623/908

JP F-Term: 4C081 4C081/AB04 4C081/BA12 4C081/CA17 4C081/CD34 4C081/CF03 4C059 4C059/AA07 4C060 4C060/LL13 4C060/LL20 4C159 4C159/AA62 4C160 4C160/LL18 4C160/LL21 4C160/LL24 4C160/LL27 4C160/LL30 4C160/LL31 4C160/LL62 4C160/LL70 4C160/MM03 4C160/MM32 4C160/MM33 4C160/MM43

JP F-Index: A61L27/00/G A61L27/00/J A61L27/22 A61L27/36/110 A61L27/50 A61L27/54 A61B17/56 A61B17/68 A61C8/00/Z



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Publication number	Publication date	Application number	Application date
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IL199377 A1	20101130	IL20010199377	20010509
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IL204277 A0	20101031	IL20010204277	20010509
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JP2006505339 T2	20060216	JP20040551134T	20031112
JP4467059 B2	20100526	JP20040551134T	20031112

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US2003105469 AA	20030605	US20020291477	20021112
US2005209595 AA	20050922	US20050126208	20050511
US2007156251 AA	20070705	US20060562985	20061123
US2008103518 AA	20080501	US20070926151	20071029
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US2010266979 AA	20101021	US20100796684	20100609
US2014106306 AA	20140417	US20130133692	20131219
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US2017296309 AA	20171019	US20170590479	20170509
US7749267 BB	20100706	US20050126208	20050511
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US8864841 BB	20141021	US20060562985	20061123
US9744057 BB	20170829	US20100762388	20100419
WO0185062 A2	20011115	WO20011L00408	20010509
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WO0185062 C2	20060720	WO20011L00408	20010509
WO04043303 A2	20040527	WO20031L00951	20031112
WO04043303 A3	20040701	WO20031L00951	20031112

Priority:

US20000567471	20000509	EP20010929948	20010509	WO20011L00408	20010509
US20020291477	20021112	WO20031L00951	20031112	US20050126208	20050511
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US20150864888	20150925	US20160238761	20160817	US20170590479	20170509

Probable Assignee: KARMON BEN ZION

Assignee(s): (std): BEN ZAIN CALMON ; BEN ZION KARMON ; KARMON BEN ZION ; REGENE EX LTD ; REGENEEX LTD ; REGENEX LTD ; REGNIX LTD

Inventor(s): (std): BEN ZION KARMON ; KARMON BEN ZION

Agent(s): MARKS AND CLERK; FAIRBAIRN ANGUS CHISHOLM; VALLEJO JUAN PEDRO; DR MARK FRIEDMAN LTD; DR MARK FRIEDMAN LTD C O BILL POLKINGHORN; DR MARK M FRIEDMAN C O BILL POLKINGHORN DISCOVERY DISPATCH; MARK M

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ 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 NI NL NO NZ OM PG PH PL PT RO RU SC SD SE SG SI SK SL SN SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

20) Family number: 5122415 (US4616634A)

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Title: Soft tissue protector for use in oral and maxillofacial surgery

Abstract: A unitary instrument for protection and retraction of the soft tissues of the oral cavity during oral and maxillofacial surgery has a central handle part and active blade parts extending from the ends of the handle parts at different curvatures, with oppositely and differently curved blade extremities for adaptation to the relatively inaccessible areas of the maxillofacial region.

Classifications:

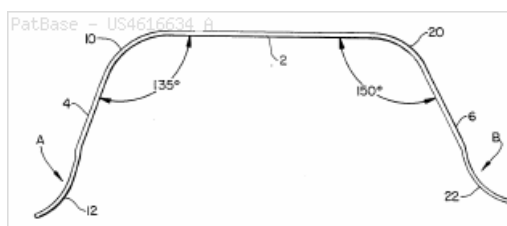
International (IPC 8-9): A61B17/02 (Advanced/Invention); A61B17/02 (Core/Invention)

International (IPC 1-7): A61B17/02

CPC: A61B17/02

European: A61B17/02

US: 128/20 600/210 600/237



Family:

Publication number	Publication date	Application number	Application date
US4616634 A	19861014	US19850709226	19850307

Priority:

US19850709226 19850307

Probable Assignee: COMMW OF PUERTO RICO

Assignee(s): (std): COMMW OF PUERTO RICO

Assignee(s): COMMONWEALTH OF PUERTO RICO

Inventor(s): (std): VARGAS GARCIA ARTURO

21) Family number: 13243428 (US6171313B)

© PatBase

Title: Distraction apparatus for subapical osteotomy and vertical segment distraction and ridge augmentation

Abstract: An apparatus for use in dental base regeneration has a support bar having fixing members on ends thereof for fixing the bar to teeth of the mandible or maxilla. A bone section engagement member, such as a fork or spade, is connected to a shaft and is inserted into a bone section resulting from osteotomy. A mechanism connects the support member with the

shaft for vertical translation of the shaft. Thus, the bone section can be gradually vertically distracted to allow tissue to regenerate and gradually augment the bone ridge of the maxilla or the mandible.

Classifications:

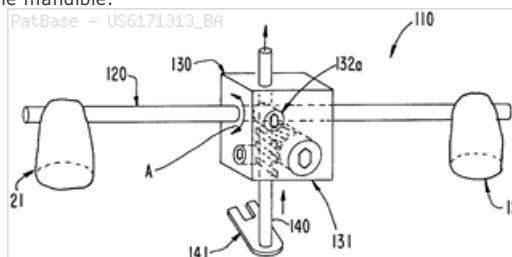
International (IPC 8-9): A61B17/66 A61C7/10 (Advanced/Invention)

International (IPC 1-7): A61B17/66 A61C3/00 A61F5/00

CPC: A61B17/666 A61C7/10

European: A61B17/66J2 A61C7/10

US: 433/7 606/71 606/86 606/86.00R 606/86R



Family:

Publication number	Publication date	Application number	Application date
EP1088520 A2	20010404	EP20000203374	20000929
EP1088520 A3	20011031	EP20000203374	20000929
US6171313 BA	20010109	US19990407944	19990929
WO0122899 A1	20010405	WO1999US25491	19991029

Priority:

US19980109380 19980702 US19990407944 19990929

Probable Assignee: RAZDOLSKY YAN

Assignee(s): (std): RAZDOLSKY YAN

Assignee(s): DRISCOLL PATRICK JOHN

Inventor(s): (std): DRISCOLL JOHN PATRICK ; DRISCOLL PATRICK JOHN ; RAZDOLSKY YAN

Designated states: AT BE CA CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

22) Family number: 62232430 (US2016120580A)

© PatBase

Title: DETACHABLE ACTUATOR ARM FOR DISTRACTION DEVICES

Abstract: A detachable actuator arm as part of or in combination with an osteogenesis distractor device, the actuator arm being detachable from the distraction mechanism of the distractor device by manipulation of a proximally disposed release mechanism.

Classifications:

International (IPC 8-9): A61B A61B17/58 A61B17/60 A61B17/66

A61B17/68 A61B17/80 (Advanced/Invention);

A61B17/68 (Advanced/Non-invention)

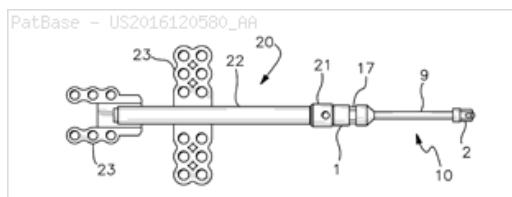
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CPC: A61B17/8019 A61B2017/681 A61B17/663

US: 606/282

JP F-Term: 4C160 4C160/LL22 4C160/LL32 4C160/LL70

JP F-Index: A61B17/58 A61B17/80



Family:

Publication number	Publication date	Application number	Application date
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EP3215035 A4	20180808	EP20150857691	20151105
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IN201737016479 A	20170825	IN201737016479	20170510
JP2018507043 T2	20180315	JP20170543313T	20151105
JP6445711 B2	20181226	JP20170543313T	20151105
KR20170093134 A	20170814	KR20177015110	20151105
MX2017005843 A1	20171204	MX20170005843	20151105
US2016120580 AA	20160505	US20150933494	20151105
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WO16073743 A1	20160512	WO2015US59276	20151105

Priority:

US20140075538P 20141105 US20150933494 20151105 WO2015US59276 20151105

Probable Assignee: KLS MARTIN LP

Assignee(s): (std): JOHNSTON THOMAS S JR ; KOHLER KLAUS ; THOMAS S JOHNSTON JR ; KLAUS KOHLER ; JOHNSTON JR THOMAS S ; KLS MARTIN L P

Assignee(s): JOHNSTON JR ; JOHNSTON THOMAS S ; KLS MARTIN LP

Inventor(s): (std): THOMAS S JOHNSTON JR ; KOHLER KLAUS ; KLAUS KOHLER ; JOHNSTON THOMAS S JR ; JOHNSTON JR THOMAS S

Inventor(s): JOHNSTON JR ; JOHNSTON THOMAS S

Agent(s): SPRUSON AND FERGUSON; SMART AND BIGGAR; CUMMINGS SEAN PATRICK; UNION PATENT SERVICE CENTRE; SAIITA THOMAS C

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

Title: ANGULARLY ADJUSTABLE MAXILLARY DISTRACTOR AND METHOD OF DISTRACTION

Abstract: A maxillary distractor assembly having a malar buttress plate member and a vertical arm member, wherein the malar buttress plate member is detachably connected to the vertical arm member such that the malar buttress plate member may be left in the patient when the remainder of the assembly is removed.

Classifications:

International (IPC 8-9): A61B17/04 A61B17/58

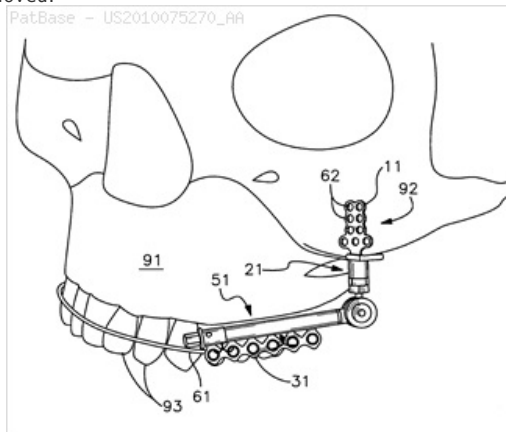
A61C3/00 (Advanced/Invention);

A61B17/04 A61B17/58 A61C3/00 (Core/Invention)

CPC: A61B17/663 A61C8/0096

European: A61B17/66J K61C8/00W4

US: 433/18 433/18P 606/105 606/105S 606/71 606/71S



Family:

Publication number	Publication date	Application number	Application date
US2010075270 AA	20100325	US20080284280	20080919

Priority:

US20080284280 20080919

Probable Assignee: FIGUEROA ALVARO A

Assignee(s): (std): FIGUEROA ALVARO A ; JOHNSTON THOMAS ; POLLEY JOHN

Inventor(s): (std): FIGUEROA ALVARO A ; JOHNSTON THOMAS ; POLLEY JOHN

Agent(s): ROGERS TOWERS PA

Title: ORTHODONTIC AND/OR OROSURGICAL DEVICE

Abstract: The present invention relates to a device for orthodontic and/or orosurgical purposes, the device comprising an elongated, dimensionally stable, self-supporting profiled element, some sections of which are curved and approximate to the vestibular side of a dental arch, the profiled element being held by at least one front fixing element that can be anchored in the bone and is allocatable as a rule to the interforaminal region of the submaxilla or to the anterior mandible, and the profiled element forming at least one anchorage point, upon which a retaining member is acting, for a segmental distraction or a bone-supported orthodontic tooth displacement.

Classifications:

International (IPC 8-9): A61B17/66 A61C7/20

A61C8/00 (Advanced/Invention);

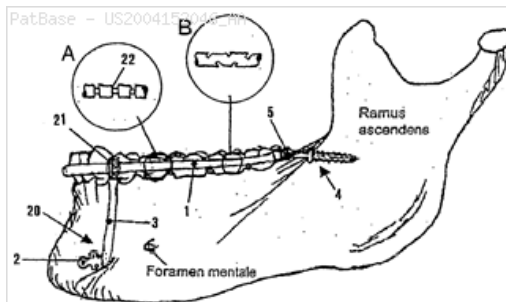
A61B17/60 A61C7/00 A61C8/00 (Core/Invention)

International (IPC 1-7): A61B17/66 A61C3/00 A61C8/00

CPC: A61B17/663 A61C7/20 A61C8/0006 A61C8/0096

European: A61B17/66J A61C7/20 A61C8/00C1A K61C8/00W4

US: 433/173 433/18



Family:

Publication number	Publication date	Application number	Application date
DE50208954 D1	20070125	DE20025008954	20020510
EP1385435 A1	20040204	EP20020742980	20020510
EP1385435 B1	20061213	EP20020742980	20020510
US2004152046 AA	20040805	US20030477090	20031218
WO02089682 A1	20021114	WO2002EP05146	20020510

Priority:

CH20010000845 20010510 WO2002EP05146 20020510

Probable Assignee: MINORETTI ROGER

Assignee(s): (std): MERZ BEAT ; MERZ BEAT R ; MINORETTI ROGER ; TRIACA ALBINO

Inventor(s): (std): MERZ BEAT R ; MINORETTI ROGER ; TRIACA ALBINO ; MERZ R ; MERZ BEAT

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 CO CR CU CY CZ DE DK DM DZ EC EE ES FI FR GA GB GD GE GH GM GN GQ 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 OM PH PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VN YU ZA ZM ZW

Title: TEMPORARY IMPLANT FOR USE AS AN ANCHOR IN THE MOUTH

Abstract: This invention is directed to a temporary implant for use as an anchor in the mouth, as well as to a method of attaching the temporary implant to the maxillary or mandibular bone. The temporary implant includes an implant adapted to be temporarily affixed in a buccal, labial, lingual or palatal bone surface of the maxillary jawbone, or buccal, labial or lingual bone surface of the mandibular jawbone. In one embodiment, the implant includes a longitudinal threaded cylindrical bore for releasably attaching various orthodontic appliances to the implant.

Classifications:

International (IPC 8-9): A61C7/00 A61C7/26

A61C8/00 (Advanced/Invention);

A61C7/00 A61C8/00 (Core/Invention)

International (IPC 1-7): A61C7/00 A61C7/26 A61C8/00

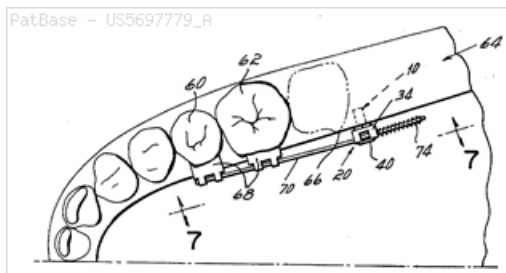
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A61C2008/0084

European: A61C7/00 A61C8/00F A61C8/00F7 K61C8/00P

K61C8/00W4

US: 233/173 233/24 433/173 433/2 433/24



Family:

Publication number	Publication date	Application number	Application date
DE19622668 A1	19961212	DE19961022668	19960605
FR2735013 A1	19961213	FR19960006995	19960606
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US5697779 A	19971216	US19950480836	19950607
US5697779 C1	20101019	US19950480836	19950607

Priority:

US19950480836 19950607

Probable Assignee: ORMCO CORP

Assignee(s): (std): ORMCO CORP

Assignee(s): ORMCO CORP GLENDORA CALIF US ; ABN AMRO BANK NV ; CREDIT SUISSE FIRST BOSTON

Inventor(s): (std): FARROKH FARZIN NIA ; FARZIN NIA FARROKH ; ROHIT CHAMAN LAL SACHDEVA ; SACHDEVA ROHIT CHAMAN LAL

Inventor(s): SACHDEVA ROHIT CHAMAN LAL PLANO TEX US ; SACHDEVA ROHIT CHAMAN LAL PLANO TEX ; FARZIN NIA FARROKH INGLEWOOD CALIF US ; FARZIN NIA FARROKH INGLEWOOD CALIF

Title: MAXILLARY DISTRACTOR

Abstract: The present invention provides an improved orthopedic system for the modification of the distance between the maxilla and zygoma. In a preferred embodiment, the system includes proximal and distal footplates attached to an orthopedic device. The distal footplate is attached to the zygoma, with the proximal footplate being mechanically coupled to the maxilla. This mechanical coupling is achieved either through attachment directly to the maxilla or by attachment to a construct which is then **wired** to the patient's teeth. The orthopedic device, which may be a distractor, allows for modification of the distance between the maxilla and zygoma. The entire system can advantageously be placed intra-orally within a patient. In a preferred embodiment, the footplates are also detachable from the orthopedic device and are composed of a bioresorbable material, such that they will be absorbed by the patient's body. Methods for using this novel orthopedic system are also disclosed.

Classifications:

International (IPC 8-9): A61B A61B17/24 A61B17/56 A61B17/58

A61B17/60 A61B17/66 A61C13/00 A61C7/00 (Advanced/Invention);

A61B17/00 (Advanced/Non-invention);

A61B17/24 A61B17/56 A61B17/60 (Core/Invention);

A61B17/00 (Core/Non-invention)

International (IPC 1-7): A61B17/24 A61B17/56 A61B17/58

A61B17/60 A61B17/66 A61C11/00 A61C13/00 A61C7/00

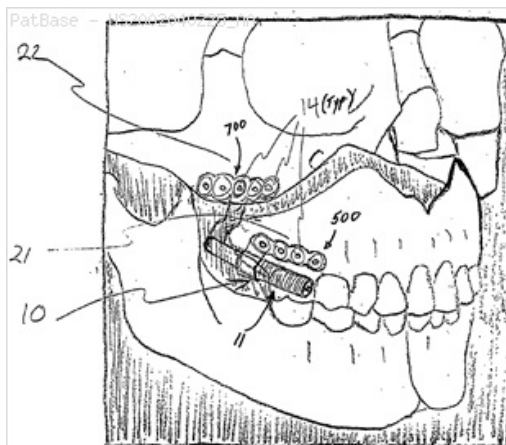
CPC: A61B17/663 A61B2017/00004

European: A61B17/66J K61B17/00A

US: 606/105 606/105P

JP F-Term: 4C059 4C060 4C060/LL13 4C060/LL18 4C060/LL20 4C060/MM21 4C159 4C160 4C160/LL21 4C160/LL33 4C160/LL42 4C160/LL70 4C052 4C052/AA06 4C052/JJ10 4C052/MM06

JP F-Index: A61B17/60 A61B17/66 A61C13/00 A61B17/24 A61B17/56 A61B17/58 A61C7/00/Z



Family:

Publication number	Publication date	Application number	Application date
AR033840 AA	20040107	AR2001P104505	20010925
AR039513 AA	20050223	AR2003P101526	20030430
AT307534 E	20051115	AT20010966938T	20010927
AT497369 E	20110215	AT20030728593T	20030429
AU2001287480 AA	20020415	AU20010287480	20010927
AU200187480 A1	20020415	AU20010087480	20010927
AU200187480 A5	20020415	AU20010087480	20010927
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BRPI0114254 A	20031209	BR2001PI14254	20010927
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US2002040225 AA	20020404	US20010971216	20011003
US2002156485 AA	20021024	US20020135281	20020430
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WO0228298 A1	20020411	WO2001CH00583	20010927
WO03092519 A1	20031113	WO2003US13238	20030429

Priority:

US20000237519P 20001004 WO2001CH00583 20010927 US20010971216 20011003
US20020135281 20020430 EP20030728593 20030429 WO2003US13238 20030429

Probable Assignee: SYNTHES USA LLC

Assignee(s): (std): HAAG RENE ; NOON JOHN M ; SELLERS TIMOTHY M ; SYNTHES AG ; SYNTHES GMBH ; SYNTHES USA

Assignee(s): SYNTHES USA LLC ; SYNTHES CHUR GRABENSTRASSE 15 CH 7002 CHUR SWITZERLAND AG ; SYNTHES CHUR CHUR AG ; SYNTHES CHUR AG ; SYNTHES 1690 RUSSELL ROADPAOLI PENNSYLVANIA ; SYNTHES U S A ; SYNTHES AG CHUR ; SYNTHES AG CHUR CHUR ; SYNTHES AKTIENGESSELLSCHAFT ; SYNTHES ; SYNTHES (USA)

Inventor(s): (std): NOON JOHN ; NOON JOHN M ; RENE HAAG ; SELLERS TIMOTHY ; SELLERS TIMOTHY M ; HAAG RENE

Inventor(s): JOHN M NOON ; TIMOTHY M SELLERS

Agent(s): OSLER HOSKIN AND HARCOURT LLP; LUSUARDI WERTHER; WENPING AND CO 1701 TUNG WAI COMMERCIAL BUILDING 111 GLOUCESTER ROAD HONG; JONES DAY

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 CO CR CU CY CZ DE DK DM DZ EC EE ES FI FR GA GB GD GE GH GM GN GQ 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 OM PH PL PT RO RU SC SD SE SG SI SK SL SN SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

27) Family number: 14264555 (US2004078212A)

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Title: METHOD, ARRANGEMENT AND PROGRAM FOR A PROSTHETIC INSTALLATION

Abstract: In a method and arrangement for allocating prosthetic installation work between at least three parties (A, B, C) a dental situation and fixture application are simulated on a computer screen by the first party. The second party produces first components in connection with the prosthetic installation with the aid of a recording and said simulation. Second components are supplied by the third party (C) and the prosthetic installation is assembled and fitted by the first party by means of said first and second components. The recording includes first and second readings of a loose prosthesis and a portion supporting the prosthetic installation. The simulation includes collation of representations of the readings on a computer screen. Simulated fixture applications are constructed and a model is produced by one of said parties, or a fourth party. An assembly template guides hole-forming members in an actual substrate in directions which correspond to the directions of the fixtures. A dental bridge is provided with attachment holes which connect to the holes formed in the substrate. Fixtures are applied in said formed holes by the first party and the dental bridge is secured in or on said fixtures. The invention also relates to a computer program in connection with the above.

Classifications:

International (IPC 8-9): A61C1/08 A61C11/00 A61C13/00 A61C5/00

A61C9/00 A61K6/00 A61K6/083 (Advanced/Invention);

A61C9/00 (Advanced/Non-invention);

A61C1/08 A61C13/00 A61C5/00 A61K6/00

A61K6/02 (Core/Invention);

A61C9/00 (Core/Non-invention)

International (IPC 1-7): A61C13/00 A61K6/00 A61K6/083

G06F17/60

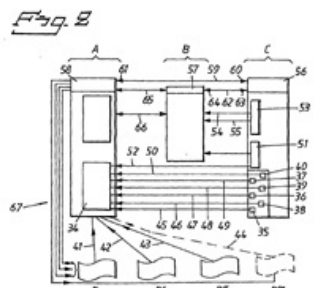
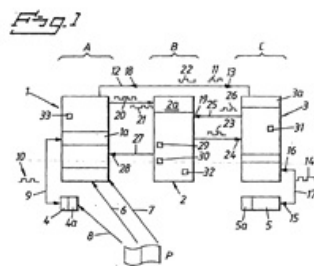
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US: 433/213 433/214 433/215 433/215P 705/1 705/301 705/301S

JP F-Term: 4C059 4C089 4C089/AA01 4C089/BD01 4C089/BE03 4C159

JP F-Index: A61C13/00 A61K6/00/Z A61K6/083/500

**Family:**

Publication number	Publication date	Application number	Application date
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AU2002217690 AA	20020716	AU20020217690	20011227
AU2002217690 BB	20061012	AU20020217690	20011227
BRPI0116644 A	20040217	BR2001PI16644	20011227
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CA2432953 AA	20030623	CA20012432953	20011227
CA2432953 C	20151006	CA20012432953	20011227
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EP2319451 A2	20110511	EP20100010972	20011227
EP2319451 A3	20150107	EP20100010972	20011227
EP2319451 B1	20160316	EP20100010972	20011227
ES2362348 T3	20110701	ES20010272996T	20011227
ES2574604 T3	20160621	ES20100010972T	20011227
JP2004522489 T2	20040729	JP20020554008T	20011227
SE200004884 A	20020630	SE20000004884D	20001229
SE200004884 A0	20001229	SE20000004884	20001229
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SE522958 C2	20040316	SE20000004884	20001229
US2004078212 AA	20040422	US20030451535	20030624
US7175435 BB	20070213	US20010451535	20011227
USRE43584 E	20120814	US20010371545	20011227
WO02053056 A1	20020711	WO2001SE02898	20011227

Priority:

SE20000004884 20001229	EP20010272996 20011227	EP20100010972 20011227
US20010371545 20011227	WO2001SE02898 20011227	US20030451535 20030624

Probable Assignee: NOBEL BIOCARE SERVICES AG**Assignee(s):** (std): ANDERSSON MATTS ; BRAJNOVIC IZIDOR ; NOBEL BIOCARE AB ; NOBEL BIOCARE SERVICES AG**Assignee(s):** NOBEL BIOCARE AB PUBL**Inventor(s):** (std): MATTS ANDERSSON ; IZIDOR BRAJNOVIC ; BRAJNOVIC IZIDOR ; ANDERSSON MATTS ; ANDERSSON MATS ; ANTONSON IZIDOR**Inventor(s):** IZIDOR ANTONSON**Agent(s):** WATERMARK INTELLECTUAL PROPERTY PTY LTD; WATERMARK PATENT AND TRADE MARKS ATTORNEYS; FETHERSTONHAUGH AND CO; GLAWE DELFS MOLL PARTNERSCHAFT MBB VON PATENT U RECHTSANWALTEN; BYSTROEM KURT LINUS; JENSEN OLAF SVEN; DURAN CARLOS; VENABLE LLP; ERIC J; KNOBBE MARTENS OLSON AND BEAR 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 GQ 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 ZM ZW

Title: BONE DISTRACTOR AND METHOD

Abstract: A bone distractor having four bone plate attachment members for affixation to the posterior and anterior maxilla and/or zygomatic buttress and to the posterior and anterior mandible, the attachment members mounted onto a pair of parallel rods, one rod being a threaded drive rod and the other being a releasable guide rod, whereby rotation of the drive rod causes dimensional separation of the anterior attachment members from the posterior attachment members. The guide rod can be quickly removed such the superior attachment members joined to the maxilla and/or zygomatic buttress are physically separated from the inferior attachment members joined to the mandible such that the jaw can be opened.

Classifications:

International (IPC 8-9): A61B17/66 A61F2/30 (Advanced/Invention); A61B17/60 A61F2/30 (Core/Invention)

International (IPC 1-7): A61F2/30

CPC: A61B17/663

European: A61B17/66J

US: 606/282 606/69 606/71 606/90

PatBase - US2005256526_AA

Patent Application Publication Nov. 17, 2005 Sheet 1 of 7 US 2005/0256526 A1

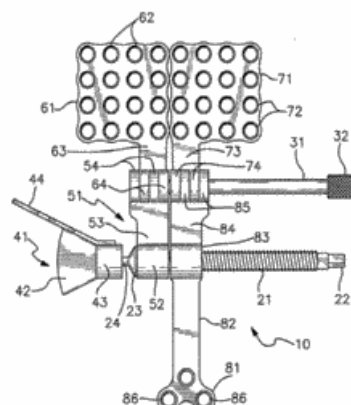


Fig. 1

Family:

Publication number	Publication date	Application number	Application date
US2005256526 AA	20051117	US20050128595	20050513
US7686836 BB	20100330	US20050128595	20050513

Priority:

US20040570657P 20040513 US20050128595 20050513

Probable Assignee: KLS MARTIN LP

Assignee(s): (std): JOHNSTON THOMAS S ; KLS MARTIN L P

Assignee(s): KLS MARTIN LP ; WACHOVIA BANK NATIONAL ASSOCIATION

Inventor(s): (std): BURKE SHAWN ; JOHNSTON THOMAS S

Inventor(s): JOHNSTON THOMAS

Agent(s): ROGERS TOWERS PA; THOMAS C

29) Family number: 20173575 (US2002035368A)

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Title: Bone distractor with shaft extension

Abstract: A bone distractor for distracting bone on opposite sides of an osteotomy of the bone. Included are a first affixation member for affixation to the bone on one side of the osteotomy and a second affixation member for affixation to the bone on another side of the osteotomy. A screw means has a rotatable member engaging the first and second affixation members for distracting the first and second affixation members relative to each other in response to rotation of the rotatable member. An extension member is removably connectable to the rotatable member of the screw means for imparting torque to the screw means when connected thereto and rotated. The extension member can be flexible to permit elastic bending while imparting torque.

Classifications:

International (IPC 8-9): A61B17/66 (Advanced/Invention);

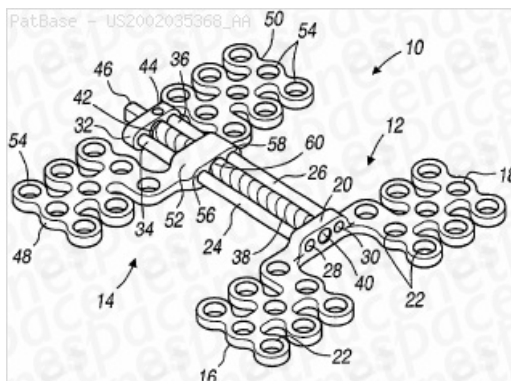
A61B17/60 (Core/Invention)

International (IPC 1-7): A61B17/58 A61F5/00

CPC: A61B17/663

European: A61B17/66J

US: 606/104 606/86 606/86R 606/90



Family:

Publication number	Publication date	Application number	Application date
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US2002035368 AA	20020321	US20010998272	20011130
US6383189 BA	20020507	US19990394609	19990913
US6752808 BB	20040622	US20010998272	20011130

Priority:

US19990394609 19990913 US20010998272 20011130

Probable Assignee: ZIMMER BIOMET CMF AND THORACIC LLC

Assignee(s): (std): SCHUMACHER BRIAN ; WALTER LORENZ SURGICAL INC

Assignee(s): BIOMET MICROFIXATION LLC ; LVB ACQUISITION INC ; ZIMMER BIOMET CMF AND THORACIC LLC ; BANK OF AMERICA NA ; BANK OF AMERICA NA ADMINISTRATIVE AGENT FOR SECURE ; BANK OF AMERICA NA ADMINISTRATIVE AGENT FOR SECURED PARTIES AS ; BIOMET INC ; BIOMET MICROFIXATION INC

Inventor(s): (std): SCHUMACHER BRIAN

30) Family number: 2902588 (US4813869A)

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Title: JAW FIXATION ASSEMBLY

Abstract: The invention has an anchor member mounted around and on one or more teeth on each jaw, which are adjustably and removably mounted thereon by retainer members. The retainer members have a body member with an axial bore and an additional bore transverse to the axial bore or a peripheral groove for ligature **wires** in order to fix the device mounted on the lower jaw to a similar device mounted on the upper jaw in roughly vertical alignment therewith. Crosswiring the retainer members between jaws provides a solid unmovable jaw fixation assembly. An alternative embodiment provides a strap member which allows the anchor members to be mounted on isolated or semi-isolated teeth.

Classifications:

International (IPC 8-9): A61F5/058 (Advanced/Invention); A61F5/04 (Core/Invention)

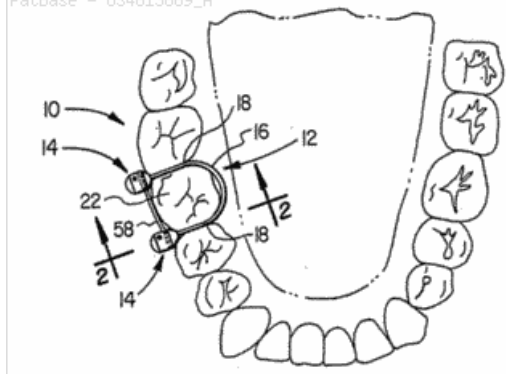
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CPC: A61F5/05891 A61C5/007

European: A61C5/00S A61F5/058K2

US: 128/89A 433/18 606/103

PatBase - US4813869_A



Family:

Publication number	Publication date	Application number	Application date
US4813869 A	19890321	US19870021459	19870304

Priority:

US19860864006 19860516 US19870021459 19870304

Probable Assignee: GATEWOOD JOHN B

Assignee(s): (std): GATEWOOD JOHN B

Assignee(s): MEDICAL PRODUCTS AND RESEARCH INC ; MEDICAL PRODUCTS AND RESEARCH INC HARRIS COUNTY TX ; MEDICAL PRODUCTS AND RESEARCH INC HARRIS COUNTY TX A TX CORP ; SMITH FERRIS FERRIS P O BOX ; SMITH FERRIS

Inventor(s): (std): GATEWOOD JOHN B

31) Family number: 32394589 (US2005251136A)

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Title: MIDFACE DISTRACTOR

Abstract: An external midface distractor is disclosed for attachment to the bones of a patient's cranium and midface region for performing an osteogenesis procedure to gradually lengthen a portion of the craniofacial skeleton. The midface distractor generally includes an external halo assembly for engaging the patient's cranium, a central adjustment assembly, a vertical central rod, at least one horizontal cross piece assembly including at least one distraction screw, and at least one bone engaging portion which is mounted to the targeted facial bone to be distracted. The midface distractor may also include various individual adjustment mechanisms that provide surgeons greater and more precise control over the distraction vector than is available with current devices. That is, the midface distractor may provide surgeons with additional anterior-posterior and medial-lateral adjustments, thus permitting surgeons to more precisely and accurately control the direction of distraction. The midface distractor may also permit surgeons to easily and accurately alter the direction of distraction after the distraction procedure has commenced thereby providing surgeons the ability to readjust the ultimate vector of distraction anytime during the procedure, as necessary.

Classifications:

International (IPC 8-9): A61B17/56 A61B17/58 A61B17/60 A61B17/62 A61B17/64 A61B17/66 A61B19/00

A61F5/02 (Advanced/Invention);

A61B17/56 A61B17/58 A61B17/60 A61B17/66 (Advanced/Non-invention);

A61B17/56 A61B17/58 A61B17/60 A61B19/00 (Core/Invention);

A61B (Subclass/Invention)

International (IPC 1-7): A61B17/58 A61B17/60

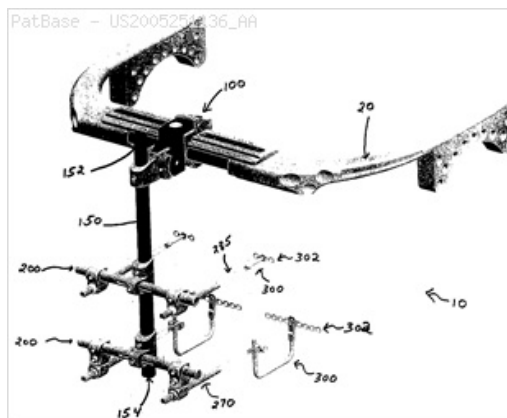
CPC: A61B17/66

European: A61B17/66

US: 128/898 128/898S 606/54 606/56 606/90 606/90P

JP F-Term: 4C060 4C060/LL20 4C098 4C098/AA03 4C098/BB20

4C098/BC03 4C098/BD04 4C098/BD13 4C098/BD14 4C160



Family:

Publication number	Publication date	Application number	Application date
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CN101141925 A	20080312	CN200580022648	20050504
CN101141925 B	20120926	CN200580022648	20050504
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WO05107620 A2	20051117	WO2005US15592	20050504
WO05107620 A3	20070315	WO2005US15592	20050504
ZA200609966 A	20080625	ZA20060009966	20050504

Priority:

US20040839551 20040504 EP20050746832 20050504 WO2005US15592 20050504
US20080339165 20081219

Probable Assignee: SYNTHES USA LLC

Assignee(s): (std): CICCONE PAUL C ; CICCONE PAUL CHRISTOPHER ; HFSC CO ; SYNTHES USA ; SYNTHES GMBH ; NOON JOHN M ; SYNTHES USA LLC ; SYNTHES INC ; SYNTHES HOLDING AG

Assignee(s): SYNTHES ; USA ; SYNTHES (USA) ; SYNTHES U S A ; HFSC COMPANY

Inventor(s): (std): CICCONE PAUL C ; NOON JOHN M ; CICCONE PAUL CHRISTOPHER ; CICCONE PAUL

Inventor(s): NOON JOHN M SWARTHMORE ; CICCONE PAUL C LINCOLN UNIV ; NOON JOHN ; PAUL C CICCONE ; JOHN M NOON

Agent(s): PHILLIPS ORMONDE FITZPATRICK; OSLER HOSKIN AND HARCOURT LLP; KSNH PATENTANWAELTE KLUNKER SCHMITT NILSON HIRSCH; HOEHFELD JOCHEN; ARPE MANUEL; JONES DAY; WOODCOCK WASHBURN LLP

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

32) Family number: 45104599 (WO10061391A1)

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Title: BIDIRECTIONAL ALVEOLAR RIDGE DISTRACTOR

Abstract: An osteogenic distractor for increasing a height and a width of an alveolar ridge comprising an elevation stage for distracting a movable ridge segment of said alveolar ridge relative to a stationary ridge segment of said alveolar ridge, an expansion stage for distracting a buccal section and/or a lingual section of the movable ridge segment, and an element for causing the elevation stage to move relative to the stationary ridge element.

Classifications:

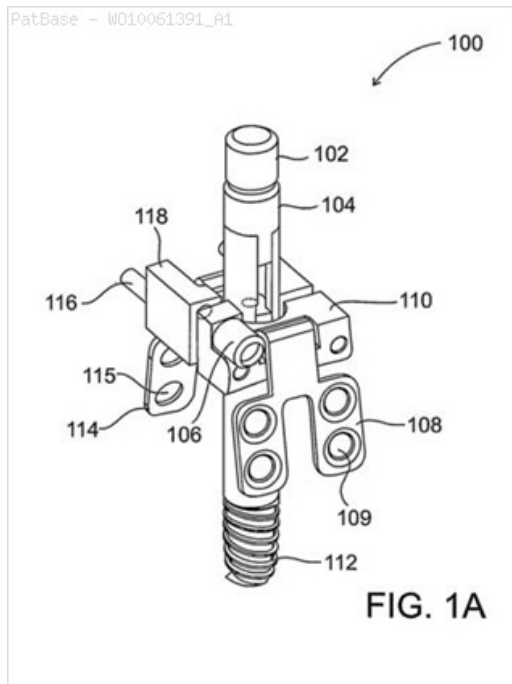
International (IPC 8-9): A61B17/66 (Advanced/Invention);

A61B17/60 (Core/Invention)

CPC: A61B17/66 A61B17/666 A61B17/80 A61B17/86 A61B17/8665

European: A61B17/66 A61B17/66J2 K61B17/80 K61B17/86

K61B17/86N

**Family:**

Publication number	Publication date	Application number	Application date
WO10061391 A1	20100603	WO20091L01121	20091129

Priority:

US20080118539P 20081128

Probable Assignee: RAD DENTAL DEVICES LTD**Assignee(s):** (std): AILABOUNI EMAD ; CHEN ELIK ; RAD DENTAL DEVICES LTD ; SABBAB JAFAR ; STRAUSS ADI**Inventor(s):** (std): CHEN ELIK ; STRAUSS ADI ; SABBAB JAFAR ; AILABOUNI EMAD**Agent(s):** G E EHRLICH 1995 LTD 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 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 TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

33) Family number: 46398601 (US2011313418A)

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Title: ORTHOPEDIC FIXATION WITH IMAGERY ANALYSIS

Abstract: Methods of orthopedic fixation and imagery analysis are provided. Images of first and second bone segments attached to a fixation apparatus are captured. Fixator elements identified in the images can be used to obtain imaging scene parameters. Bone elements identified in the images can be used with the imaging scene parameters to reconstruct a three dimensional representation of positions and/or orientations of the first and second bone segments with respect to the fixation apparatus.

Classifications:

International (IPC 8-9): A61B17/00 A61B17/60 A61B17/62 A61B17/66 A61B19/00 A61B34/10 A61B90/00 A61B90/14 G06F19/00 G06K9/00 (Advanced/Invention);

A61B90/00 (Advanced/Non-invention)

International (IPC 1-7): A61B17/62 A61B17/66 A61B19/00

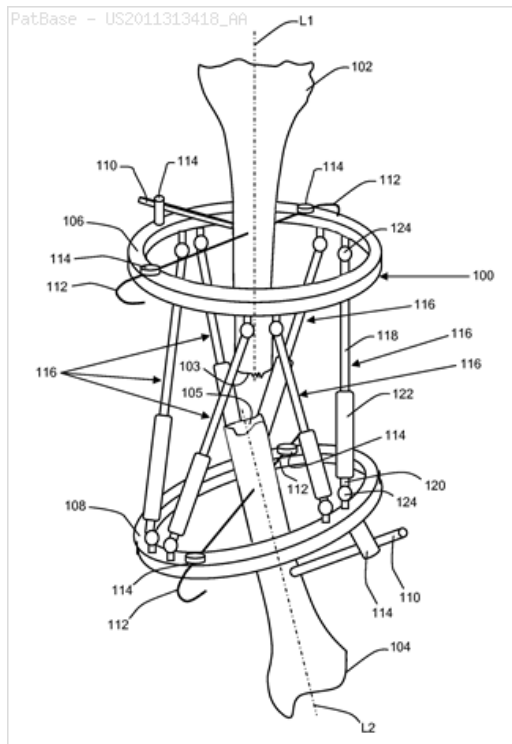
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European: A61B17/62 A61B17/66 A61B19/20D A61B19/50 K61B19/52L6 K61B19/54P

US: 382/128 382/128S 606/54 606/54S 606/56 606/56P

JP F-Term: 4C030 4C093 4C093/AA08 4C093/AA09 4C093/AA21 4C093/AA22 4C093/CA18 4C093/CA35 4C093/DA10 4C093/FD03 4C093/FF12 4C093/FF13 4C093/FF15 4C093/FF21 4C093/FF28 4C093/FF42 4C093/FG13 4C093/GA02 4C093/GA03 4C160 4C160/LL18 4C160/LL21 4C160/LL39

JP F-Index: A61B17/60 A61B17/62 A61B17/66 A61B19/00/502 A61B34/00 A61B6/00/370 A61B6/00/390/C A61B6/03/377 A61B90/00



Family:

Publication number	Publication date	Application number	Application date
BR112012028013 A2	20171121	BR20121128013	20110519
CA2796094 AA	20121010	CA20112796094	20110519
CN102883671 A	20130116	CN201180023213	20110519
CN102883671 B	20160302	CN201180023213	20110519
DE602011027555 D1	20160804	DE201160027555T	20110519
DE602011054880 D1	20190103	DE201160054880T	20110519
EP2571433 A1	20130327	EP20110723796	20110519
EP2571433 B1	20160622	EP20110723796	20110519
EP3069673 A1	20160921	EP20160165349	20110519
EP3069673 B1	20181212	EP20160165349	20110519
GB201008281 A0	20100630	GB20100008281	20100519
IN09437CN2012 A	20140425	IN2012CN09437	20121106
JP2013526377 T2	20130624	JP20130511352T	20110519
JP5828890 B2	20151209	JP20130511352T	20110519
KR101809291 B1	20171214	KR20127029423	20110519
KR20130094704 A	20130826	KR20127029423	20110519
RU2012147835 A	20140627	RU20120147835	20110519
RU2016120275 A	20181115	RU20160120275	20110519
RU2588316 C2	20160627	RU20120147835	20110519
US2011313418 AA	20111222	US20110111180	20110519
US2017181800 AA	20170629	US20170461969	20170317
US2019000552 AA	20190103	US20180111775	20180824
US9642649 BB	20170509	US20110111180	20110519
WO11146703 A1	20111124	WO2011US37128	20110519

Priority:

GB20100008281 20100519	EP20110723796 20110519	EP20160165349 20110519
US20110111180 20110519	WO2011US37128 20110519	US20170461969 20170317
US20180111775 20180824		

Probable Assignee: DEPUY SYNTHES PRODUCTS INC

Assignee(s): (std): NIKONOVAS ARKADIJUS ; SYNTHES GMBH ; SYNTHES USA LLC ; DEPUY SYNTHES PRODUCTS INC ; SYNTHES HOLDING AG

Assignee(s): ZINTES GMBKH ; DEPUY SYNTHES PRODUCTS LLC ; GRAFINIU MASINU SERVISAS UAB ; HAND INNOVATIONS LLC ; DEPUY SPINE LLC

Inventor(s): (std): NIKONOVAS ARKADIJUS ; ARKADIJUS NIKONOVAS

Inventor(s): NIKONOVAS ARKADIJUS ; NIKONOVAS ARKADIJUS DERBY

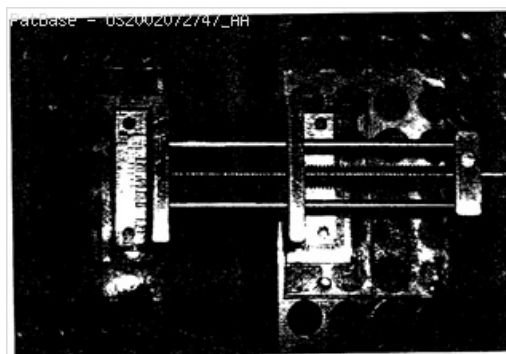
Agent(s): NORTON ROSE CANADA SENCRL SRL LLP; NORTON ROSE FULBRIGHT CANADA LLP SENCRL SRL; KLUNKER SCHMITT NILSON HIRSCH; KLUNKER IP PATENTANWALTE PARTG MBB; YURIDICHESKAYA GORODISSKIY I PARTNERY OOO FA; BAKER AND HOSTETLER LLP; ESTES JEREMY C ET AL

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

Abstract: The present invention recognizes that existing distraction devices have certain disadvantages, including the requirement to remove materials in the distraction device from the subjects body after distraction is completed. Depending on the location of distraction, this procedure can be of varying degrees of undesireability. One aspect of the present invention is a connective tissue distraction device comprising: a first transmitting means for transmitting force to a first tissue region and a second transmitting means for transmitting force to a second tissue region by contact with bone, expansion means for exerting force distracting said first transmitting means from said second transmitting means, wherein at least one of said first transmitting means, said second transmitting means and said expansion means comprises in whole or in part a biodegradable, bioerodible or bioresorbable material.

Classifications:

International (IPC 8-9): A61B17/00 A61B17/58 A61B17/66 A61B17/80 A61F5/04 (Advanced/Invention); A61B17/00 A61B17/80 (Advanced/Non-invention)
International (IPC 1-7): A61B17/56 A61B17/58 A61B17/80
CPC: A61B17/8019 A61B17/66 A61B17/663 A61B17/8004 A61B17/8085 A61B2017/00004
European: A61B17/66 K61B17/00A K61B17/66J K61B17/80A K61B17/80P
US: 1/1 606/105 606/281 606/282 606/285 606/298 606/53 606/53P 606/57 606/71 606/71P 606/77 606/90 606/90P



Family:

Publication number	Publication date	Application number	Application date
AU200120817 A1	20010618	AU20010020817	20001208
AU200120817 A5	20010618	AU20010020817D	20001208
AU200124284 A1	20010618	AU20010024284	20001208
AU200124284 A5	20010618	AU20010024284D	20001208
US2002072747 AA	20020613	US20000733302	20001208
US2002161374 AA	20021031	US20000733287	20001208
US2005021034 AA	20050127	US20040920505	20040818
US2012209271 AA	20120816	US20120454622	20120424
US2014163554 AA	20140612	US20140181249	20140214
US6786910 BB	20040907	US20000733287	20001208
US7771427 BB	20100810	US20000733302	20001208
US8162944 BB	20120424	US20040920505	20040818
US8753349 BB	20140617	US20120454622	20120424
US9468480 BB	20161018	US20140181249	20140214
WO0141661 A1	20010614	WO2000US33477	20001208
WO0141662 A1	20010614	WO2000US33359	20001208

Priority:

US19990170011P 19991209 US20000733287 20001208 US20000733302 20001208
 WO2000US33477 20001208 WO2000US33359 20001208 US20040920505 20040818
 US20120454622 20120424 US20140181249 20140214

Probable Assignee: MACROPOR

Assignee(s): (std): AMIS J PETER ; COHEN STEVEN ; COHEN STEVEN R ; FICHTNER HORST ; FICHTNER HORST R ; HOLMES RALPH ; HOLMES RALPH E ; LEMPERLE STEFAN M ; MACROPOR ; MEDTRONIC PS MEDICAL INC ; MEDTRONIC INC

Assignee(s): AMIS J

Inventor(s): (std): AMIS J PETER ; COHEN STEVEN ; COHEN STEVEN R ; FICHTNER HORST ; FICHTNER HORST R ; HOLMES RALPH ; HOLMES RALPH E ; LEMPERLE STEFAN M

Inventor(s): RALPH E HOLMES ; STEFAN M LEMPERLE ; STEVEN R COHEN ; AMIS J ; HORST R FICHTNER ; J PETER AMIS

Agent(s): SHUMAKER AND SIEFFERT P A ; SHUMAKER AND SIEFFERT PA ; DICKE BILLIG AND CZAJA PLLC

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 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

35) Family number: 15625607 (US6280191B)

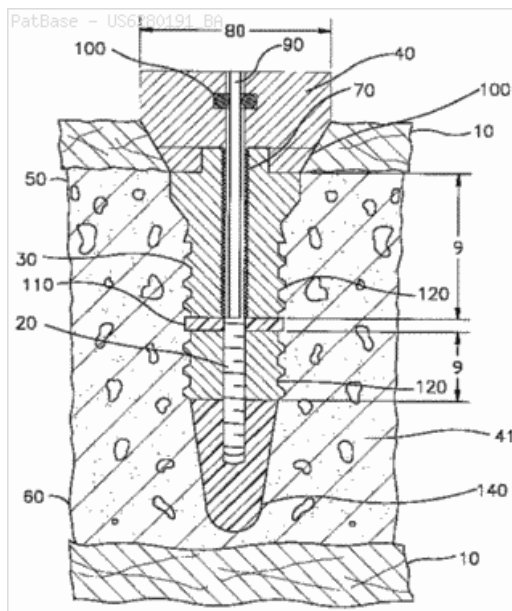
© PatBase

Title: DISTRACTOR SUITABLE FOR PERMANENT IMPLANTATION INTO BONE

Abstract: The present invention relates to an osteogenic distractor suitable for indexed osteotomy following permanent implantation into bone. The osteogenic distractor may be a means for anchoring two or more sections of bone and a means for facilitating movement of one section of anchored bone relative to another section of anchored bone. Furthermore, the continuous tension on the bone produced by the distractor may facilitate stimulation of osteogenesis around the implant.

Classifications:

International (IPC 8-9): A61B17/66 A61C8/00 (Advanced/Invention); A61B17/00 A61B17/64 A61B19/00 A61F2/00 A61F2/28 (Advanced/Non-invention); A61B17/60 A61C8/00 (Core/Invention); A61B17/00 A61B19/00 A61F2/00 A61F2/28 (Core/Non-invention)
International (IPC 1-7): A61C8/00
CPC: A61C8/0006 A61B17/6433 A61B17/666 A61B2017/00004 A61B2017/00539 A61B2017/00544 A61B2017/00557 A61B2090/037 A61F2002/2817 A61F2310/00796 A61F2310/00976 A61F2310/00982
European: A61B17/66J2 A61C8/00C1A K61B17/00A K61B17/00N2 K61B17/00N4 K61B17/00N8 K61B17/64F K61B19/30H K61F2/28D K61F310/00L66 K61F310/00L66C K61F310/00L6E
US: 433/173 606/90 623/16



Family:

Publication number	Publication date	Application number	Application date
US6280191 BA	20010828	US19990389246	19990903

Priority:

US19990389246 19990903

Probable Assignee: GORDON CHRISTOPHER B

Assignee(s): GORDON CHRISTOPHER B

Inventor(s): (std): GORDON CHRISTOPHER B

36) Family number: 12521616 (US5302127A)

© PatBase

Title: Dental implant stress stabilizer

Abstract: A horizontal and vertical shear stress distributor for a dental prothesis implant is formed by a cylindrical member threadedly inserted into a jaw bone cavity. An angular disposed through bore in the root member secures an elongated bar projecting angularly downward from the root member into the jaw bone adjacent the cavity.

Classifications:

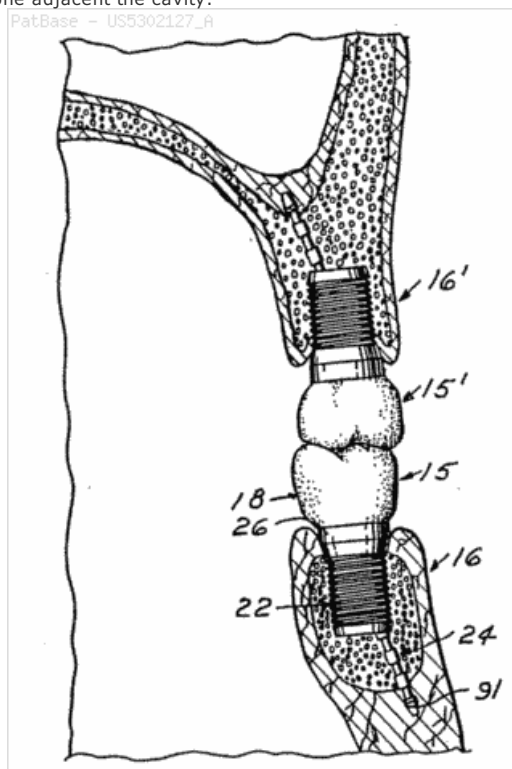
International (IPC 8-9): A61C8/00 (Advanced/Invention)

International (IPC 1-7): A61C8/00

CPC: A61C8/0031 A61C8/0086

European: A61C8/00F6 A61C8/00Q

US: 433/173 433/174 433/176



Family:

Publication number	Publication date	Application number	Application date
US5302127 A	19940412	US19930069335	19930601
US5513989 A	19960507	US19940222061	19940404
WO9427521 A1	19941208	WO1994US01344	19940207

Priority:

US19930069335 19930601 US19940222061 19940404

Probable Assignee: CRISIO RAYMOND A**Assignee(s):** (std): CRISIO JR RAYMOND A ; CRISIO RAYMOND A**Inventor(s):** (std): CRISIO RAYMOND A ; CRISIO JR RAYMOND A**Designated states:** AT BE CH DE DK ES FR GB GR IE IT JP LU MC NL PT SE**37) Family number: 28293630 (US2002128178A)**

© PatBase

Title: Use of growth hormone or a growth hormone secretagogue for promoting bone formation

Abstract: The invention provides a method of enhancing the healing of bone fractures in an animal subjected to distraction osteogenesis, the method comprising administering, to the animal in need thereof, a growth hormone or a growth hormone secretagogue in an amount sufficient to provide bone formation simultaneous with the distraction procedure. The invention further provides a method for treatment of patients suffering from fractured bones by distractive osteogenesis, which method comprises administering an effective amount of a growth hormone or a growth hormone secretagogue to a patient in need of such a treatment in conjunction with the distraction procedure, as well the use of a growth hormone or a growth hormone secretagogue for the manufacture of a medicament for the enhancement of healing of bone fractures in distractive osteogenesis,

Classifications:

International (ipc 8-9): A61K31/438 A61K38/00 A61K38/05 A61K38/08 A61K38/27 A61K45/00 A61P19/08 (Advanced/Invention); A61K38/00 A61K45/00 (Advanced/Non-invention)

International (ipc 1-7): A61K38/05 A61K38/08 A61K38/27 A61P19/08 C07K5/06

CPC: A61K31/438 A61K38/05 A61K38/08 A61K38/27

European: A61K31/438 A61K38/05 A61K38/08 A61K38/27

US: 514/11.3 514/11.300S 514/11.4 514/11.400P 514/11.400S 514/16.5 514/16.500S 514/16.7 514/16.700S 514/17 514/18 514/19 514/2 514/21.8 514/21.800S 530/331 530/331S 530/344

JP F-Term: 4C084 4C084/AA02 4C084/AA17 4C084/BA01 4C084/BA10 4C084/BA14 4C084/BA15 4C084/BA16 4C084/BA23 4C084/BA32 4C084/BA44 4C084/CA18 4C084/CA59 4C084/DB14 4C084/DB22 4C084/DB52 4C084/DB58 4C084/NA14 4C084/ZA96 4C084/ZC04 4C201 4C206

JP F-Index: A61K37/02 A61K37/36 A61K38/00 A61K38/05 A61K38/06 A61K38/08 A61K38/18 A61K38/25 A61K38/27 A61K38/30 A61K45/00 A61P19/08

PatBase - US2002128178_AA

Patent Application Publication Sep. 12, 2002 Sheet 1 of 5 US 2002/0128178 A1

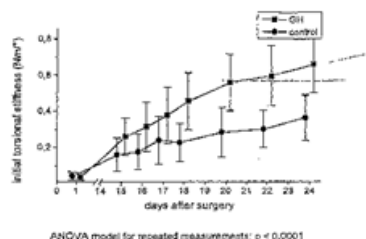


FIGURE 1

Family:

Publication number	Publication date	Application number	Application date
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JP2001503416 T2	20010313	JP19980520964T	19971105
US2002128178 AA	20020912	US20010015342	20011213
US2004063641 AA	20040401	US20030669538	20030924
WO9819699 A1	19980514	WO1997DK00504	19971105

Priority:DK19960001239 19961105 US19960035657P 19961223 US19970963388 19971103
WO1997DK00504 19971105 US20010015342 20011213**Probable Assignee:** NOVO NORDISK AS**Assignee(s):** (std): NOVO NORDISK AS ; NOVONORDISK AS ; WINDHAGEN HENNING**Assignee(s):** NOVO NORDISK A S ; RASCHKE MICHAEL**Inventor(s):** (std): RASCHKE MICHAEL ; WINDHAGEN HENNING ; BAIL HERMAN**Inventor(s):** HENNING WINDHAGEN ; HERMAN BAIL ; MICHAEL RASCHKE

Designated states: AL AM AT AU AZ BA BB BE BG BR BY CA CH CN CU CZ DE DK EE ES FI FR GB GE GH GR HU IE IL IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MC MD MG MK MN MW MX NL NO NZ PL PT RO RU SD SE SG SI SK SL SZ TJ TM TR TT UA UG UZ VN YU ZW

38) Family number: 44937656 (US2010104999A)

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Title: APPARATUS, SYSTEM, AND METHOD FOR INTRA-ORAL DISTRACTION

Abstract: Described herein are various embodiments of a bone distraction osteogenesis system and associated apparatus and methods that overcome at least some shortcomings of the prior art. According to one representative embodiment, a bone distraction system for distracting a portion of bone from a source bone includes a first anchor portion couplable to an

anchor bone and a second anchor portion couplable to a distractable bone segment of the source bone. The system includes a distractor coupling the first anchor portion and the second anchor portion. The overall length of the distractor is decreasable to pull the distractable bone segment toward the anchor bone for distracting the bone segment.

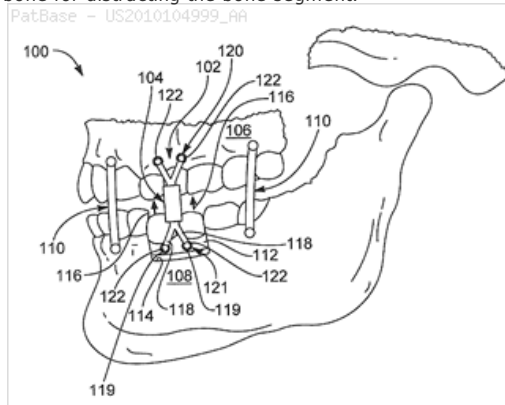
Classifications:

International (IPC 8-9): A61B17/04 A61B17/58 A61B17/60 A61B17/66 A61B19/00 A61C13/225 A61C3/00 (Advanced/Invention); A61B17/04 A61B17/58 A61B17/60 A61B19/00 A61C13/225 A61C3/00 (Core/Invention)

CPC: A61B17/663 A61B17/8605 A61C8/0006

European: A61B17/66J A61C8/00C1A K61B17/86A

US: 128/898 128/898S 433/7 433/7P 606/105 606/301 606/301S 606/57 606/90 606/90S



Family:

Publication number	Publication date	Application number	Application date
US2010104999 AA	20100429	US20080257054	20081023
US2012259332 AA	20121011	US20120495957	20120613
US8529579 BB	20130910	US20120495957	20120613
WO10048556 A2	20100429	WO2009US61922	20091023
WO10048556 A3	20100722	WO2009US61922	20091023

Priority:

US20080257054 20081023 US20120495957 20120613

Probable Assignee: INTRINSIC MEDICAL LLC

Assignee(s): (std): BULLOCH SCOTT E ; INTRINSIC MEDICAL LLC ; OLSEN RUSSELL G

Inventor(s): (std): BULLOCH SCOTT E ; OLSEN RUSSELL G

Agent(s): KUNZLER NEEDHAM MASSEY AND THORPE; KUNZLER LAW GROUP PC; KUNZLER BRIAN C 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 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 TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

39) Family number: 28690661 (US2003120273A)

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Title: SURGICAL DISTRACTOR FRAME

Abstract: A distractor frame is disclosed the frame, comprising an upper pin, a lower pin positioned substantially parallel to the upper pin, a pair of adjustment mechanisms, wherein each adjustment mechanism couples to the upper pin and the lower pin such that each adjustment mechanism is positioned generally perpendicular to upper and lower pins, wherein each adjustment mechanism comprises a shaft, a first means coupling the shaft for coupling the upper pin to the shaft, a threaded rod coupled to an end of the shaft, a cylindrical sleeve adapted for threadedly engaging the threaded rod, such that a portion of the shaft and a portion of the threaded rod may be positioned within the cylindrical sleeve, and a second means coupled to the cylindrical sleeve for coupling the lower pin.

Classifications:

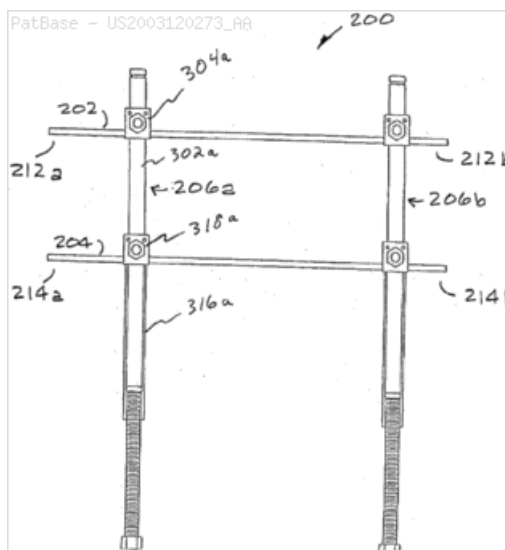
International (IPC 8-9): A61B17/00 A61B17/66 (Advanced/Invention); A61B17/64 A61F4/00 (Advanced/Non-invention); A61B17/00 A61B17/60 (Core/Invention); A61F4/00 (Core/Non-invention)

International (IPC 1-7): A61B17/56

CPC: A61B17/6408 A61B17/6425 A61B17/6441 A61B17/66

European: A61B17/66 K61B17/64B K61B17/64D K61B17/66G

US: 606/54 606/57 606/59



Family:

Publication number	Publication date	Application number	Application date
US2003120273 AA	20030626	US20020326655	20021221
US7311711 BB	20071225	US20020326655	20021221

Priority:

US20010342963P 20011221 US20020326655 20021221

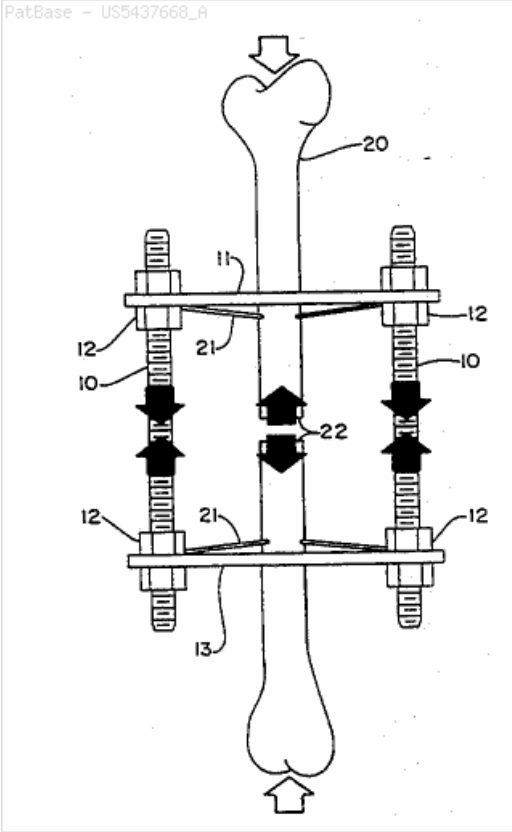
Probable Assignee: SYNTHES USA LLC
Assignee(s): (std): COLE J DEAN
Assignee(s): SYNTHES USA LLC ; SYNTHES USA PRODUCTS LLC
Inventor(s): (std): COLE J DEAN
Agent(s): HAYNES AND BOONE LLP

40) Family number: 12073664 (US5437668A) © PatBase

Title: Apparatus and method for clinical use of load measurement in distraction osteogenesis

Abstract: Distraction Osteogenesis is a procedure for lengthening a bone. The Ilizarov External Fixator is an apparatus employed in the distraction osteogenesis procedure. The prospects for a successful clinical outcome of the procedure are enhanced by modifying the Ilizarov apparatus to obtain measurements of loads generated during the procedure. An apparatus and method for the clinical use of load measurements taken during the distraction osteogenesis procedure are disclosed. An alternative method is disclosed for converting load measurements to stress data in order to enhance the clinical outcome of the procedure. Additionally, the method may be employed to assess completion of the healing process.

Classifications:
International (IPC 8-9): A61B17/62 (Advanced/Invention);
A61B17/64 (Advanced/Non-invention);
A61B17/60 (Core/Invention)
International (IPC 1-7): A61B17/56
CPC: A61B17/62 A61B17/64
European: A61B17/62 K61B17/64
US: 606/54 606/56 606/57



Family:

Publication number	Publication date	Application number	Application date
US5437668 A	19950801	US19940198356	19940218

Priority:

US19940198356 19940218

Probable Assignee: BOARD OF TRUSTEES OF UNIV

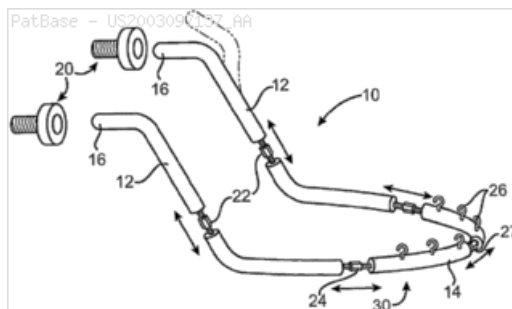
Assignee(s): (std): UNIV ARKANSAS
Assignee(s): BOARD OF TRUSTEES OF THE UNIVERSITY OF ARK ; BOARD OF TRUSTEES OF UNIV
Inventor(s): (std): ARONSON JAMES ; HARP JR JOHN H

41) Family number: 28541745 (US2003097137A) © PatBase

Title: MAXILLARY DISTRACTION DEVICE

Abstract: A device for maxillary jawbone and dentition expansion and/or retraction is configured for mounting within the mouth and connects the right and left halves of the skull. The maxillary distraction device includes at least two implantable anchors configured to be implanted in the maxillary bones of the skull on opposite sides of a midline of the skull. A facebow having two posterior ends is connectable to the implantable anchors and is configured to extend from the maxillary regions entirely within the mouth across the midline of the skull. The facebow has at least one expandable section for bone lengthening. The facebow is connected to the anchors and is lengthened periodically to lengthen the maxillary bones. The facebow may provide horizontal, vertical, and transverse distraction.

Classifications:
International (IPC 8-9): A61B17/56 A61B17/58 A61B17/60
A61B17/66 A61F2/36 (Advanced/Invention);
A61B17/60 (Advanced/Non-invention);
A61B17/56 A61B17/58 A61B17/60 A61F2/36 (Core/Invention)
International (IPC 1-7): A61B17/56 A61B17/58 A61B17/66 A61F2/36
CPC: A61B17/663 A61B17/1637 A61B17/1673
European: A61B17/16H A61B17/66J K61B17/16S6

**Family:**

Publication number	Publication date	Application number	Application date
US2003097137 AA	20030522	US20010988529	20011120
US2003195521 AA	20031016	US20030440001	20030516
US2005021045 AA	20050127	US20040924315	20040823
US2008039861 AA	20080214	US20070876546	20071022
US6589250 BB	20030708	US20010988529	20011120
US7322987 BB	20080129	US20030440001	20030516
US7621922 BB	20091124	US20040924315	20040823
US7892241 BB	20110222	US20070876546	20071022
WO06022940 A2	20060302	WO2005US18057	20050523
WO06022940 A3	20061207	WO2005US18057	20050523

Priority:

US20010988529 20011120 US20030440001 20030516 US20040924315 20040823
 US20060859237P 20061114 US20070876546 20071022

Probable Assignee: OSTEOMED LP

Assignee(s): (std): AHMAD SHAHER A ; MOCANU VIOREL ; OSTEOMED L P ; OSTEOMED LP ; SCHENDEL STEPHEN A ; THORNHILL LISA REGINA

Assignee(s): OSTEOMED LLC

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Inventor(s): THORNHILL LISA ; SCHENDEL STEPHEN ; GORDON CHRISTOPHER

Agent(s): BAKER BOTTS LLP

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

42) Family number: 32503767 (US2003104339A)

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Title: PERIOSTEAL DISTRACTION

Abstract: Devices and methods for gradual displacing of the periosteal tissue covering bones. The gap developing between the bone and the displaced periosteal tissue will be filled with bone callus as it is in distraction osteogenesis. The devices and methods allow formation of bone in distraction osteogenesis without cutting a segment of the bone.

Classifications:

International (ipc 8-9): A61B A61B17/58 A61B19/02 A61C8/00

A61K35/12 (Advanced/Invention);

A61B17/02 A61B17/66 A61B19/00 (Advanced/Non-invention);

A61C8/00 A61K35/12 (Core/Invention);

A61B17/02 A61B17/60 A61B19/00 (Core/Non-invention);

A61B (Subclass/Invention)

International (ipc 1-7): A61B17/58 A61C5/00 A61C8/00 A61F2/12 A61F2/34 A61K35/12 C12N5/06

CPC: A61B90/02 A61C8/0087 A61B17/666 A61B17/865

A61B2017/00876 A61C8/0089 A61C2202/00 A61B17/0281

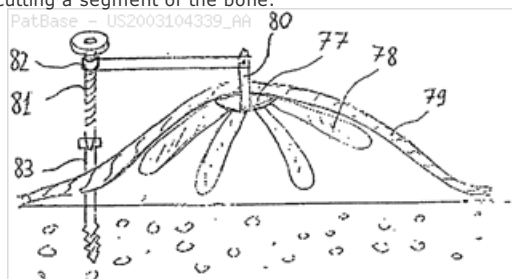
A61B17/66 A61C8/0033 A61C8/0092 A61C19/02 A61F2/12

A61F2210/009

European: A61B19/24 A61C8/00F7 A61C8/00S A61C8/00T3

A61K35/12 K61B17/00S14 K61B17/02L K61B17/66 K61B17/66J2 K61B17/86H K61B19/24 K61C202/00 K61C8/00T

US: 433/173 433/173S 433/189 433/189S 433/215 433/215P 600/201 600/201P 606/105 606/105S 623/8

**Family:**

Publication number	Publication date	Application number	Application date
AU2002358949 AA	20030617	AU20020358949	20021205
AU2002358949 AH	20030617	AU20020358949	20021205
EP1458850 A1	20040922	EP20020793293	20021205
EP1458850 A4	20070509	EP20020793293	20021205
EP1765202 A2	20070328	EP20050747715	20050607
EP1765202 A4	20080903	EP20050747715	20050607
IL162368 A0	20051120	IL20020162368	20021205
IL162368 A1	20100429	IL20020162368	20021205
IL179890 A0	20070515	IL20050179890	20050607
US2003104339 AA	20030605	US20010002135	20011205
US2005059864 AA	20050317	US20040861401	20040607
US6758673 BB	20040706	US20010002135	20011205
US7396232 BB	20080708	US20040861401	20040607

WO03048347 A1	20030612	WO2002IL00987	20021205
WO03048347 C2	20031113	WO2002IL00987	20021205
WO05120366 A2	20051222	WO2005IL00603	20050607
WO05120366 A3	20070705	WO2005IL00603	20050607

Priority:

US20010002135 20011205 WO2002IL00987 20021205 IL20040162368 20040606
US20040861401 20040607 WO2005IL00603 20050607 IL20060179890 20061206

Probable Assignee: BEN ZION KARMON

Assignee(s): (std): FROMOVICH OFIR ; FROMOVICH OPHIR ; KARMON BEN ZION ; KARMON BENZION ; OFIR FROMOVICH ; OPHIR FROMOVICH ; BEN ZION KARMON

Assignee(s): FROMOVICH OFHIR

Inventor(s): (std): FROMOVICH OPHIR ; KARMON BEN ZION ; OFIR FROMOVICH ; KARMON BENZION ; FROMOVICH OFIR ; FROMOVICH OFHIR

Inventor(s): BEN ZION KARMON ; OPHIR FROMOVICH

Agent(s): DR MARK FRIEDMAN LTD; DR MARK FRIEDMAN LTD C O BILL POLKINGHORN; FRIEDMAN MARK M; MARK M

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

43) Family number: 49245835 (US2011172668A)

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Title: INTRAMEDULLARY MANDIBULAR CONDYLE IMPLANTS AND METHOD FOR APPLICATION OF THE SAME

Abstract: A device for intramedullary fixation of mandibular condyle fractures is provided. This device includes a proximal screw portion and a distal peg portion. The screw portion includes threads and a taper at the proximal tip. The peg portion contains a taper at the distal end, it may be of circular or ovoid cross-sectional shape to accommodate variations in individual patient anatomy, and may contain peg holes oriented perpendicular to its long axis. Perpendicular grooves are present on the distal end of the device to allow coupling with a surgical screwdriver. The method of application includes reaming of the intramedullary canal, insertion of the device into the proximal condyle fragment, and manipulation of the intramedullary canal of the distal mandible onto the device to achieve stable fracture fixation. This device and method provide the benefits of intramedullary fixation and a total endoscopic surgical approach to the treatment of mandibular condyle fractures.

Classifications:

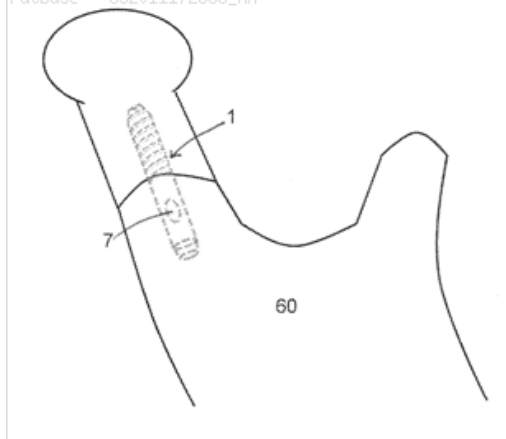
International (IPC 8-9): A61B17/56 A61B17/58 (Advanced/Invention)

CPC: A61B17/72 A61B17/7283 A61B17/7291

European: A61B17/72 K61B17/72H K61B17/72J

US: 606/62 606/62P

PatBase - US2011172668_AA



Family:

Publication number	Publication date	Application number	Application date
US2011172668 AA	20110714	US20110004015	20110110
US8357162 BB	20130122	US20110004015	20110110

Priority:

US20100335820P 20100113 US20110004015 20110110

Probable Assignee: FRAKE PAUL CHRISTOPHER

Assignee(s): (std): FRAKE PAUL C ; FRAKE PAUL CHRISTOPHER

Inventor(s): (std): FRAKE PAUL C ; FRAKE PAUL CHRISTOPHER

44) Family number: 8022930 (US5263980A)

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Title: Device for securing artificial body parts, in particular artificial ears, noses and eyes

Abstract: A device for securing artificial body parts, in particular ears, noses and eyes, to a support 12 secured in turn to a bone 10 comprises a post 24 connectable rigidly to the support 12. Rotatably mounted on the post is a rotary member 26 which has a recess 30 for a **wire**. The artificial body part can be secured to the **wire** by means of a clamp, clip or the like.

Classifications:

International (IPC 8-9): A61F2/00 A61F2/02 (Advanced/Invention); A61F2/02 (Core/Invention)

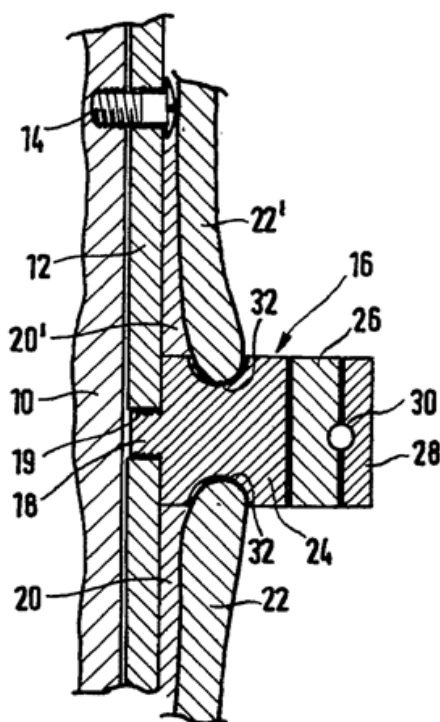
International (IPC 1-7): A61F2/00 A61F2/02 A61F2/28

CPC: A61F2/00 A61F2/30749 A61F2220/0008

European: A61F2/00 K61F2/00F K61F2/30B10 K61F220/00F

US: 433/172 606/40 606/60 623/11 623/11.11

FIG. 1

**Family:**

Publication number	Publication date	Application number	Application date
AT94046 E	19930915	AT19900123826T	19901211
DE3942674 C1	19910411	DE19893942674	19891222
DE59002646 D1	19931014	DE19905002646	19901211
EP0433851 A1	19910626	EP19900123826	19901211
EP0433851 B1	19930908	EP19900123826	19901211
US5263980 A	19931123	US19900629834	19901219

Priority:

DE19893942674 19891222 DE19905002646 19901211 EP19900123826 19901211

Probable Assignee: STRYKER LEIBINGER GMBH AND CO KG

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Assignee(s): OSWALD LEIBINGER GMBH ; OSWALD LEIBINGER GMBH 7202 MUEHLHEIM DE ; STRYKER LEIBINGER GMBH ; OSWALD LEIBINGER GMBH 78570 MUEHLHEIM DE ; OSWALD LEIBINGER GMBH A CORP OF FED REP OF GERMANY ; STRYKER LEIBINGER GMBH AND CO KG ; HOWMEDICA LEIBINGER AND CO KG

Inventor(s): (std): LEIBINGER FRANZ ; LEIBINGER KARL

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Designated states: AT BE CH DE FR GB IT LI SE

45) Family number: 11787942 (US5275598A)

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Title: Quasi-isotropic apparatus and method of fabricating the apparatus

Abstract: A method of forming an Ilizarov ring includes forming two half rings, each of which comprises a length of resin impregnated cloth. Cloth is pre-impregnated with a resin and then wound to provide a plurality of layers in a three dimensional orientation, and then the resin impregnated cloth is placed in a mold. After the resin impregnated cloth is pressed and cured in the mold, the material is removed from the mold and is appropriately machined. Two half rings are secured together to form a single ring.

Classifications:

International (IPC 8-9): A61B17/62 (Advanced/Invention);

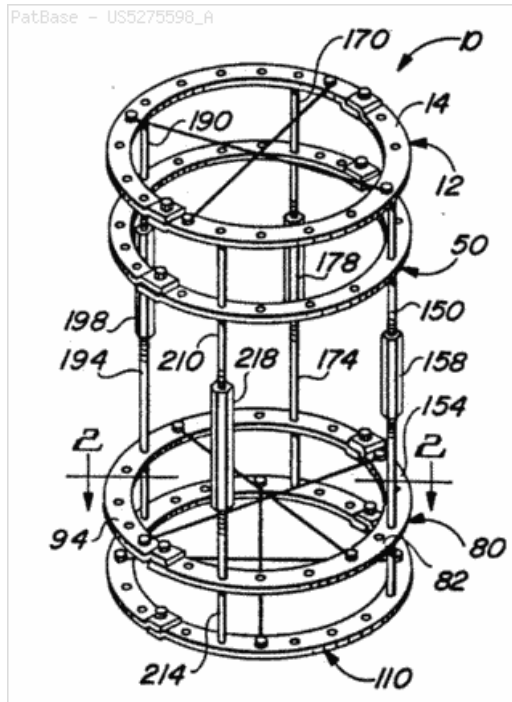
A61B17/60 (Core/Invention)

International (IPC 1-7): A61B17/56 B29C53/56 B29C67/14

CPC: A61B17/62

European: A61B17/62

US: 156/191 156/194 156/245 264/136 264/155 264/160 264/257 606/54 606/56

**Family:**

Publication number	Publication date	Application number	Application date
US5275598 A	19940104	US19910774701	19911009
US5389323 A	19950214	US19930116964	19930907

Priority:

US19910774701 19911009 US19930116964 19930907

Probable Assignee:

COOK RICHARD L

Assignee(s): (std):

COOK RICHARD L

Inventor(s): (std):

COOK RICHARD L