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Results: 61

1) Family number: 29112008 (USD480141S)

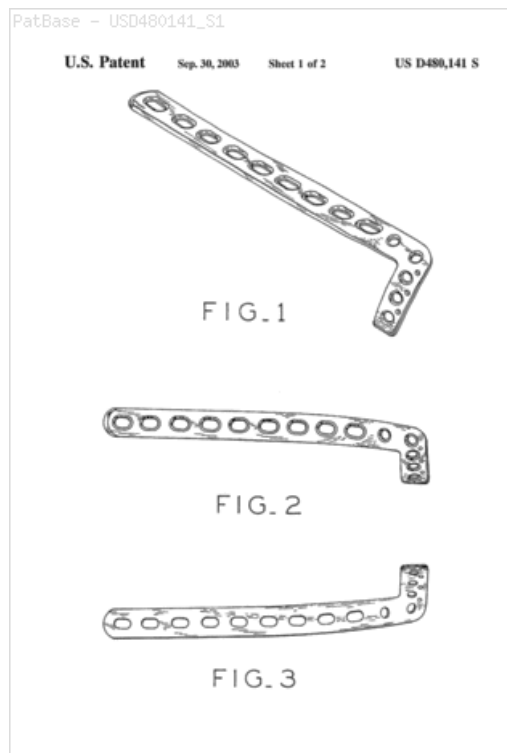
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Title: BONE PLATE

Abstract: 1. The ornamental design for a bone plate, as shown.

Classifications:

US: D24/155



Family:

Publication number	Publication date	Application number	Application date
USD480141 S1	20030930	US20000124201F	20000601

Priority:

US20000124201F 20000601

Probable Assignee: ZIMMER INC

Assignee(s): (std): BRYANT MARK ; DUWELIUS PAUL ; GOULET JAMES ; ROUSSEAU PATRICK ; TEMPLEMAN DAVID ; WINQUIST ROBERT A ; BENIRSCHKE STEVE

Assignee(s): BRISTOL MYERS SQUIBB CO ; ZIMMER INC

Inventor(s): (std): BENIRSCHKE STEVE ; BRYANT MARK ; DUWELIUS PAUL ; GOULET JAMES ; ROUSSEAU PATRICK ; TEMPLEMAN DAVID ; WINQUIST ROBERT A

2) Family number: 3767021 (US5006120A)

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Title: DISTAL RADIAL FRACTURE SET AND METHOD FOR REPAIRING DISTAL RADIAL FRACTURES

Abstract: A bone fixation set for the treatment of distal radial fractures is provided. The device includes a plate having countersunk bone screw holes and a blade constructed for placement in the capitate of the radius. A method for implanting the bone fixation set is also provided.

Classifications:

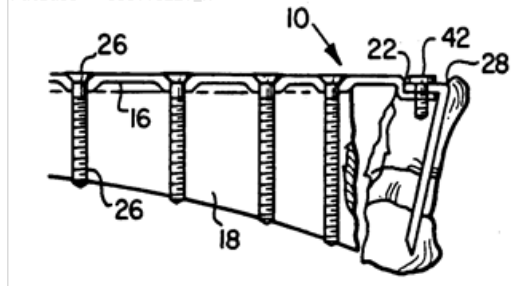
International (IPC 8-9): A61B17/58 A61B17/80 (Advanced/Invention); A61B17/68 (Core/Invention)

International (IPC 1-7): A61B17/58 A61F5/04

CPC: Y10S606/902 A61B17/809 A61B17/8061

European: A61B17/80S K61B17/80H

US: 606/281 606/286 606/297 606/69 606/71 606/72 606/902

**Family:**

Publication number	Publication date	Application number	Application date
CA2026268 AA	19910411	CA19902026268	19900926
CA2026268 C	19990330	CA19902026268	19900926
CH680562 A	19920930	CH19900003212	19901004
US5006120 A	19910409	US19890418582	19891010

Priority:

US19890418582 19891010 CA19902026268 19900926

Probable Assignee: ZIMMER TECHNOLOGY INC

Assignee(s): (std): CARTER PETER R ; PETER R CARTER

Assignee(s): ZIMMER TECHNOLOGY INC

Inventor(s): (std): CARTER PETER R

Agent(s): KIRBY EADES GALE BAKER

3) Family number: 48001026 (US2013122446A)

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Title: ORTHODONTIC FIXING APPARATUS

Abstract: An orthodontic fixing apparatus is provided, wherein the apparatus includes a linear fixing body, bisymmetrically defined, having a plurality of connection grooves in each left and right sides thereof, and a plurality of cylindrical fixing rings arranged on the upper and lower sides of the central portion of the fixing body with a connection member being placed between the upper and lower sides, wherein a screw is inserted, to thereby fix the fixing body to the palate. Each fixing ring may protrude by a width of 0.1 mm to 4 mm in a direction of contact with the palate to minimize the contact of the fixing ring or the fixing body with the palate. The fixing ring may include a taper having a diameter that gradually decreases from an inlet to an outlet along an insertion direction of the screw, wherein an internal thread is arranged in the fixing ring.

Classifications:

International (IPC 8-9): A61C7/00 A61C7/06 A61C7/12 A61C7/14 A61C7/22 A61C7/26 (Advanced/Invention);

A61C7/06 A61C7/12 A61C7/22 A61C8/00 (Advanced/Non-invention)

CPC: A61C7/12 Y10S606/903 A61C7/00 A61C8/0096 A61C7/22

European: A61C7/00 K61C8/00W4

US: 433/18 433/8 606/70 606/903

FIG. 1

FIG. 2

FIG. 3

Family:

Publication number	Publication date	Application number	Application date
CN103037800 A	20130410	CN201180033975	20110720
CN103037800 B	20160106	CN201180033975	20110720
EP2596761 A2	20130529	EP20110809855	20110720
EP2596761 A4	20131204	EP20110809855	20110720
JP2013532509 T2	20130819	JP20130520647T	20110720
JP5665982 B2	20150204	JP20130520647T	20110720
KR200451511 Y1	20101217	KR20100007579U	20100720
KR200451511 Y9	20161104	KR20100007579U	20100720
US2013122446 AA	20130516	US20110810812	20110720
US8807998 BB	20140819	US20110810812	20110720
WO12011728 A2	20120126	WO2011KR05323	20110720

Priority:

KR20100007579U 20100720 WO2011KR05323 20110720

Probable Assignee: LEE CHEOL GYU

Assignee(s): (std): LEE CHEOL GYU

Inventor(s): (std): LEE CHEOL GYU

Agent(s): SERJEANTS LLP; NOVICK KIM AND LEE PLLC; JAE YOUN

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 KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PE PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

4) Family number: 33178039 (US2006173459A)

PatBase

Title: ORTHOPEDIC PLATE FOR USE IN SMALL BONE REPAIR

Abstract: The present invention relates to an orthopedic plate and screw system and instruments for surgical fixation of a small bone or bones. The plate facilitates three dimensional contouring to provide for a variety of applications and to accommodate individual variation in bone shape. The plate has a modified x shape including a central trunk portion including one or more screw holes along a longitudinal axis and a set of divergent upper and an oppositely extending set of divergent lower arms, each arm including screw holes which are placed at a radially equal distance but which diverging asymmetrically from the longitudinal axis relative to its paired upper or lower mate. The screws of the system are self-starting, self-tapping screws including the option of partial or full cannulation.

Classifications:

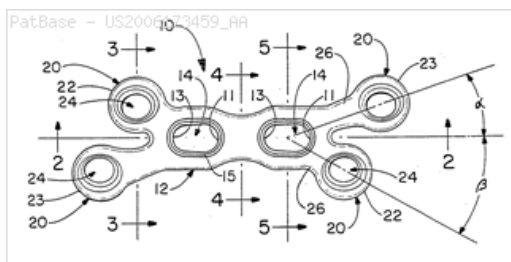
International (IPC 8-9): A61B17/56 A61B17/58 A61B17/70 A61B17/80 A61B17/86 A61B17/88 A61F2/30 (Advanced/Invention); A61B17/56 A61B17/86 A61B17/88 A61F2/08 (Advanced/Non-invention); A61B17/56 A61B17/58 A61B17/68 A61B17/88 (Core/Invention); A61F2/08 (Core/Non-invention); A61B (Subclass/Invention)

International (IPC 1-7): A61F2/30

CPC: A61B17/8066 A61B17/8085 A61B17/8605 A61B17/863 A61B17/8635 A61B2017/00004 A61B17/861 A61B17/8625 A61B17/8061 A61B17/8057 A61B17/56 A61B17/8004 A61B17/8014 A61B17/885

European: A61B17/80H A61B17/86A A61B17/86B A61B17/86B2 A61B17/86B4 K61B17/00A K61B17/80F2 K61B17/80H2 K61B17/80P K61B17/86A2 K61B17/86B4

US: 1/1 606/280 606/280P 606/280S 606/281 606/281P 606/281S 606/282 606/282S 606/283 606/284 606/284P 606/284S 606/285 606/286 606/286S 606/287 606/287S 606/289 606/289P 606/289S 606/291 606/304 606/305 606/305P 606/308 606/308P 606/312 606/312S 606/317 606/317S 606/318 606/318S 606/319 606/319S 606/329 606/329S 606/331 606/331S 606/69 606/70 606/70P 606/71 606/71P 606/73 606/86.00RS 606/86R 606/906 606/906S 606/907 606/907S



Family:

Publication number	Publication date	Application number	Application date
AU2006208072 AA	20060803	AU20060208072	20060127
AU2006208072 BB	20091029	AU20060208072	20060127
BRPI0607192 A2	20090825	BR2006PI07192	20060127
BRPI0607192 A8	20161129	BR2006PI07192	20060127
CA2596256 AA	20070727	CA20062596256	20060127
CA2596256 C	20120417	CA20062596256	20060127
DE602006047471 D1	20160121	DE200660047471T	20060127
EP1848376 A2	20071031	EP20060733971	20060127
EP1848376 A4	20111102	EP20060733971	20060127
EP1848376 B1	20151209	EP20060733971	20060127
IL184819 A0	20071203	IL20070184819	20070724
IL184819 A1	20110831	IL20060184819	20060127
IL209247 A0	20110131	IL20100209247	20101110
IL209247 A1	20130131	IL20060209247	20060127
IN06103DN2007 A	20070817	IN2007DN06103	20070806
US2006173459 AA	20060803	US20060340028	20060126
US2006173461 AA	20060803	US20060340026	20060126
US2006173462 AA	20060803	US20060340365	20060126
US2006200145 AA	20060907	US20060340027	20060126
US2006200151 AA	20060907	US20060369631	20060307
US2009306724 AA	20091210	US20090380177	20090224
US2009312759 AA	20091217	US20090380166	20090224
US2010249851 AA	20100930	US20100802169	20100601
US2010305618 AA	20101202	US20100804775	20100729
US2012109214 AA	20120503	US20120348888	20120112
US2012109215 AA	20120503	US20120348940	20120112
US2014296921 AA	20141002	US20140230231	20140331
US2014296923 AA	20141002	US20140230263	20140331
US2014296924 AA	20141002	US20140230207	20140331
US2014309701 AA	20141016	US20140313439	20140624
US2014309703 AA	20141016	US20140313376	20140624
US2016120581 AA	20160505	US20160991045	20160108
US2017095282 AA	20170406	US20160379693	20161215
US2018036051 AA	20180208	US20170788209	20171019
US2019000517 AA	20190103	US20180111829	20180824
US7771457 BB	20100810	US20060340028	20060126
US7799061 BB	20100921	US20060340027	20060126

US8100954 BB	20120124	US20100802169	20100601
US8118846 BB	20120221	US20090380177	20090224
US8118848 BB	20120221	US20090380166	20090224
US8231663 BB	20120731	US20100804775	20100729
US9144443 BB	20150929	US20120348888	20120112
US9259251 BB	20160216	US20140230207	20140331
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US9259253 BB	20160216	US20140230263	20140331
US9545278 BB	20170117	US20140313376	20140624
US9814504 BB	20171114	US20140313439	20140624
WO06081422 A2	20060803	WO2006US02933	20060127
WO06081422 A3	20061130	WO2006US02933	20060127
WO10098817 A1	20100902	WO2010US00427	20100216
WO10098820 A1	20100902	WO2010US00437	20100216

Priority:

US20050648209P	20050128	US20050648348P	20050128	US20050648364	20050128
US20050648364P	20050128	US20050691171P	20050616	US20060340026	20060126
US20060340027	20060126	US20060340028	20060126	US20060340365	20060126
EP20060733971	20060127	WO2006US02933	20060127	US20060369631	20060307
US20090380177	20090224	US20090380166	20090224	US20100802169	20100601
US20100804775	20100729	US20120348940	20120112	US20120348888	20120112
US20140230207	20140331	US20140230231	20140331	US20140230263	20140331
US20140313376	20140624	US20140313439	20140624	US20160991045	20160108
US20160379693	20161215	US20170788209	20171019	US20180111829	20180824

Probable Assignee: WRIGHT MEDICAL TECHNOLOGY INC

Assignee(s): (std): BELL ROBERT H ; DELIBERTO REBECCA F ; DEN HARTOG BRYAN D ; DILIBERTO REBECCA F ; DUCHARME DUSTIN ; KAY DAVID B ; DUCHARRME DUSTIN ; LEWIS DEREK S ; LEITHER ANDREW J ; EDWARDS THOMAS B ; DUTTA ANIL K ; ORTHOHELIX SURGICAL DES INC ; EDWARDS THOMAS BRADLEY ; ORTHOHELIX SURGICAL DESIGN INC ; KOCHER REBECCA F ; STRNAD LEE A ; WYNKOOP G M ; ORTHOHELIX SURGICAL DESIGNS IN ; WYNKOOP G MARTIN ; ORTHOHELIX SURGICAL DESIGNS INC ; ORTHOHELIX SURGICAL DESIGNS

Assignee(s): ORTHOHELIX SURGICAL DESIGNS INC MEDINA ; WRIGHT MEDICAL TECHNOLOGY INC ; BANK OF AMERICA NA ADMINISTRATIVE AGENT AS ; MIDCAP FINANCIAL TRUST AGENT AS ; MIDCAP FUNDING IV TRUST AGENT AS

Inventor(s): (std): DUCHARME DUSTIN ; DUCHARRME DUSTIN ; STRNAD LEE A ; WYNKOOP G M ; WYNKOOP G MARTIN ; KAY DAVID B ; LEWIS DEREK S ; LEITHER ANDREW J ; HARTOG BRYAN D DEN ; EDWARDS THOMAS BRADLEY ; DUTTA ANIL K ; DILIBERTO REBECCA F ; DEN HARTOG BRYAN D ; BELL ROBERT H ; DENHARTOG BRYAN D ; STRAND LEE A ; KOCHER REBECCA F ; EDWARDS THOMAS B ; DELIBERTO REBECCA F

Inventor(s): KAY DAVID ; DAVID B KAY ; LEE ASTRNAD ; LEE ASTRAND ; LEE A STRAND ; WYNKOOP G ; STRNAD LEE ; DUCHARME DUSTIN AKRON ; KAY DAVID B AKRON ; LEE A STRNAD ; MARTIN G WYNKOOP ; WYNKOOP G MARTIN GAINSVILLE ; STRNAD LEE A BROADVIEW HTS ; DUSTIN DUCHARME ; G MARTIN WYNKOOP

Agent(s): FISHER ADAMS KELLY; FISHER ADAMS KELLY PTY LTD; FISHER ADAMS KELLY CALLINANS; SPRUSON AND FERGUSON; RIDOUT AND MAYBEE LLP; LAVOIX MUNICH; GRAND GUILLAUME; SANFORD TCOLB AND CO; HUDAK SHUNK AND FARINE CO LPA; DUANE MORRIS LLP; SHUNK LAURA 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 YU ZA ZM ZW

5) Family number: 48695086 (US2011082550A)

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Title: INTERVERTEBRAL FIXATION DEVICE

Abstract: This invention discloses an intervertebral fixation device including a plate member, a body, and at least one bending portion disposed on the plate member. The thickness of the bending portion is slightly smaller than the thickness of the plate member and ear portions, such that the bending portion is provided for flexibly adjusting a curvature of the plate member of the intervertebral fixation device, and an ear portion and another ear portion on the plate member can be adjusted flexibly to be attached to the two cervical vertebrae, and the intervertebral fixation device can match with the physiological curvature of each patient's cervical vertebrae, so as to overcome the shortcomings of a conventional intervertebral fixation device having a protrusion after a surgical operation is performed, and prevent a locking element secured to a conventional intervertebral fixation device from being loosened, and avoid another surgical operation of a patient.

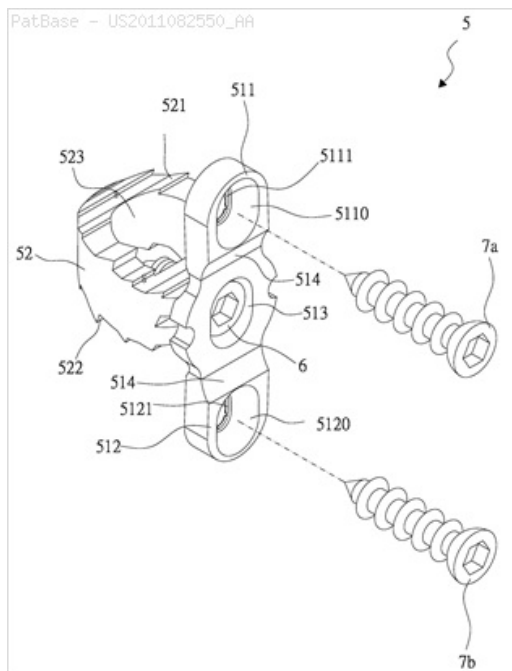
Classifications:

International (IPC 8-9): A61B17/70 A61F2/44 (Advanced/Invention)

CPC: A61B17/70 A61B17/7059 A61B17/8052 A61F2/4465 A61F2002/30507 A61F2002/30578 A61F2002/30604 A61F2002/30904 A61F2002/4475 A61F2220/0025

European: A61B17/70K A61F2/44F4 K61B17/70 K61B17/80F K61F2/00T33V K61F2/30A3T33V K61F2/30A3W14A K61F2/30A3W32 K61F2/30L2Z K61F2/44H K61F220/00T

US: 606/246 606/246S 623/17.11 623/17.110P



Family:

Publication number	Publication date	Application number	Application date
US2011082550 AA	20110407	US20090574901	20091007

Priority:

US20090574901 20091007

Probable Assignee:

YEH AN SHIH

Assignee(s): (std):

YEH AN SHIH

Inventor(s): (std):

YEH AN SHIH

6) Family number: 51344090 (US2012197303A)

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Title: COMPRESSION PLATE APPARATUS

Abstract: The present invention provides a system, including methods, apparatus and kits for stabilizing and compressing bone fractures using a compression plate apparatus for stabilizing bone fragments with compression comprising a plate having at least two bone screw holes adapted to accept at least one bone screw each, the plate additionally having at least one elongate hole through the plate; a rack comprising rack teeth located along at least one linear edge of the elongate hole; a pinion axle assembly comprising a pinion axle having a head portion, a pinion gear having complementary gear teeth for engaging the rack teeth and a lower portion having threads for engaging bone.

Classifications:

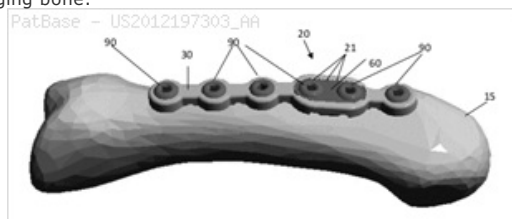
International (IPC 8-9): A61B17/17 A61B17/58

A61B17/80 (Advanced/Invention)

CPC: A61B17/1728 A61B17/8019 A61B17/8009 A61B17/8085

European: A61B17/80A1 A61B17/80A5 K61B17/17P K61B17/80P

US: 606/282 606/282P 606/291



Family:

Publication number	Publication date	Application number	Application date
CA2822784 AA	20130621	CA20112822784	20111216
EP2654587 A2	20131030	EP20110851230	20111216
EP2654587 A4	20161214	EP20110851230	20111216
IN01140MN2013 A	20140725	IN2013MN01140	20130617
US2012197303 AA	20120802	US20110326068	20111214
US8685067 BB	20140401	US20110326068	20111214
WO12087830 A2	20120628	WO2011US65528	20111216
WO12087830 A3	20140410	WO2011US65528	20111216

Priority:

US20100425468P 20101221

US20110326068 20111214

WO2011US65528 20111216

Probable Assignee: COMPETITIVE GLOBAL MEDICAL LLC

Assignee(s): (std): CHAMPAGNE LLOYD ; COMPETITIVE GLOBAL MEDICAL LLC ; CONTENTO OMAR ; KING BRUCE ; LANHAM MIKE

Inventor(s): (std): LANHAM MIKE ; KING BRUCE ; CHAMPAGNE LLOYD ; CONTENTO OMAR

Agent(s): GOWLING LAFLEUR HENDERSON LLP; HANNKE CHRISTIAN; HAYES SOLOWAY PC; JONES HUW R 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 CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PE PG PH PL PT QA RO RS RU RW SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Title: GROWTH CONTROL DEVICE

Abstract: A growth control device includes a bone plate having a stepped profile defined by a first level, a second level and an intermediate ramp connecting the first and second levels. The first level includes a first threaded hole for receiving a first bone fastener and the second level includes a second threaded hole for receiving a second bone fastener. The bone plate includes a proximal pair of side female notches, a distal pair of side female notches, a proximal guide hole and a distal guide hole.

Classifications:

International (IPC 8-9): A61B17/17 A61B17/56 A61B17/70

A61B17/80 (Advanced/Invention);

A61B17/17 A61B17/56 (Advanced/Non-invention);

A61B17/56 A61B17/70 (Core/Invention)

CPC: A61B2017/564 A61B17/80 A61B17/8028 A61B17/8057

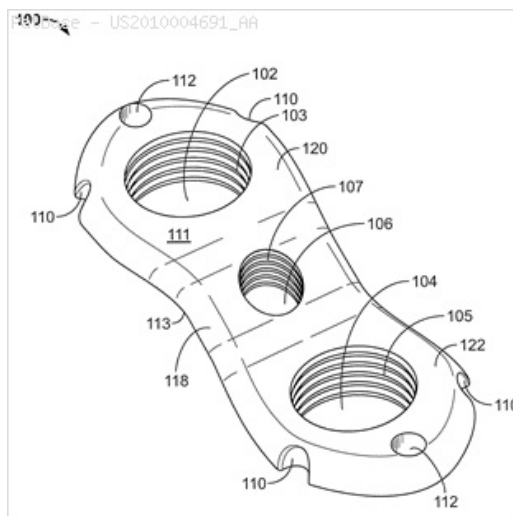
A61B17/808 A61B17/1728

European: A61B17/80 A61B17/80J K61B17/17P K61B17/80C

K61B17/80F2

US: 606/280 606/280P 606/281 606/286 606/70 606/70S D24/155

Locarno class: 24/02



Family:

Publication number	Publication date	Application number	Application date
US2010004691 AA	20100107	US20080166833	20080702
US2012239040 AA	20120920	US20120483231	20120530
US2015032166 AA	20150129	US20140456432	20140811
US2017224396 AA	20170810	US20170434277	20170216
US8273111 BB	20120925	US20080166833	20080702
US8801760 BB	20140812	US20120483231	20120530
US9579134 BB	20170228	US20140456432	20140811
USD754347 S1	20160419	US20140492689F	20140602
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Priority:

US20080166833 20080702 US20120483231 20120530 US20140492689F 20140602
 US20140456432 20140811 US20170434277 20170216

Probable Assignee: EBI LLC

Assignee(s): (std): AMATO MATTHEW F ; BIOMET MFG LLC ; WALULIK STEPHEN B ; EBI LLC

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

Inventor(s): (std): AMATO MATTHEW F ; WALULIK STEPHEN B

Agent(s): HARNESS DICKEY AND PIERCE PLC ; HARNESS DICKEY ; SCHWEGMAN LUNDBERG AND WOESSNER PA

Title: SURGICAL RETAINING INSTRUMENT FOR BONE PLATES

Abstract: The invention relates to a surgical retaining instrument for bone plates. The retaining instrument comprises a carrying element and two plate retaining jaws arranged on the carrying element. The mutual distance of the plate retaining jaws can be changed in order to pick up or release a bone plate. Furthermore, an actuating device is provided, which has two arms, which can be moved relative to each other and which are designed to change the mutual distance of the plate retaining jaws. The carrying element is rotatably mounted relative to the arms.

Classifications:

International (IPC 8-9): A61B17/17 A61B17/28 A61B17/56

A61B17/58 A61B17/80 (Advanced/Invention)

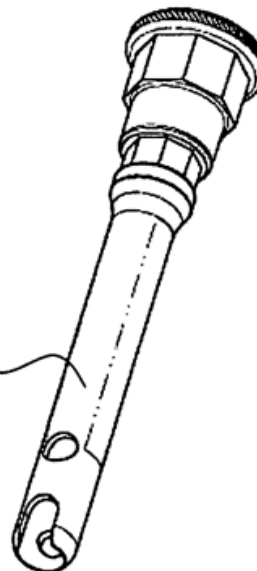
CPC: A61B17/808 A61B17/1728 A61B17/2812 A61B17/282

A61B17/8071 A61B2017/00738

European: A61B17/17P A61B17/80J K61B17/80H4

US: 606/286

70

**Family:**

Publication number	Publication date	Application number	Application date
DE102011008557 A1	20120719	DE201110008557	20110114
DE102011008557 B4	20150205	DE201110008557	20110114
US2014249585 AA	20140904	US20120978972	20120112
WO12095318 A1	20120719	WO2012EP00130	20120112

Priority:

DE201110008557 20110114 WO2012EP00130 20120112

Probable Assignee: STRYKER LEIBINGER GMBH AND CO KG**Assignee(s):** (std): GREINER KARL ; KNOEPFLE CHRISTIAN ; KOERNER UWE ; KUHN MARKUS ; SCHMUCK MANFRED ; STRYKER LEIBINGER GMBH AND CO KG**Assignee(s):** STRYKER EUROPEAN HOLDINGS I LLC ; STRYKER EUROPEAN HOLDINGS VI LLC**Inventor(s):** (std): SCHMUCK MANFRED ; KUHN MARKUS ; KOERNER UWE ; KNOEPFLE CHRISTIAN ; GREINER KARL**Agent(s):** ROETHINGER RAINER

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 LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PE PG PH PL PT QA RO RS RU RW SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

9) Family number: 53294132 (US2013079789A)

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Title: PATELLA DRILLING SYSTEM

Abstract: A patella drilling system includes a clamp and a patella drill guide. The clamp includes an arm with a pointed tip that is received in a dimple on the surface of the patella drill guide and another arm with a bone-gripping member spaced from the tip. The clamp is used to hold the patella drill guide firmly against the resected posterior surface of the patella while the surgeon drills into the patella to form holes for mounting pegs on the implant. The clamp may allow the patella drill guide to be pivoted while clamped so that the orientations of the guide bores may be optimized. The system includes an optional cap that may be used on the pointed tip of the clamp to hold the implant firmly in place while the bone cement sets.

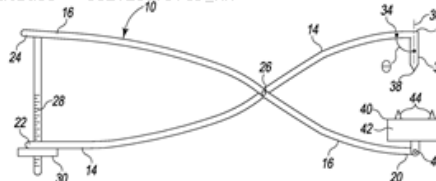
Classifications:**International (IPC 8-9):** A61B17/16 A61B17/17

A61F2/46 (Advanced/Invention);

A61F2/30 A61F2/38 (Advanced/Non-invention)

CPC: A61B17/1767 A61F2/3877 A61F2002/30225**US:** 1/1 606/96

PatBase - US2013079789_AA

**Family:**

Publication number	Publication date	Application number	Application date
DE602012001288 D1	20140515	DE201260001288T	20120928
EP2574292 A1	20130403	EP20120186700	20120928
EP2574292 B1	20140402	EP20120186700	20120928
JP2013071012 A2	20130422	JP20120213835	20120927
US2013079789 AA	20130328	US20120548661	20120713
US9078676 BB	20150714	US20120548661	20120713

Priority:

US20110540053P 20110928 US20120548661 20120713 EP20120186700 20120928

Probable Assignee: DEPUY IRELAND UNLIMITED CO**Assignee(s):** (std): DEPUY PRODUCTS INC ; RANDLE RAYMOND E ; ROCHE MARTIN W ; WRIGHT ABRAHAM P ; DEPUY IRELAND**Assignee(s):** DEPUY IRELAND UNLIMITED CO**Inventor(s):** (std): RANDLE RAYMOND E ; ROCHE MARTIN W ; WRIGHT ABRAHAM P**Inventor(s):** WRIGHT ABRAHAM P WARSAW ; RANDLE RAYMOND E MUDAEERABA**Agent(s):** BOEHMERT AND BOEHMERT ANWALTSPARTNERSCHAFT MBB PATENTANWAELTE RECHTSANWAELTE; BELCHER SIMON JAMES; KATO MASANOBU**Designated states:** AL AT BA BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC ME MK MT NL NO PL PT RO RS SE SI SK SM TR**10) Family number: 32885134 (USD520637S)**

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Title: ORTHOPEDIC PLATE**Abstract:** We claim the ornamental design for an "orthopedic plate," as shown and described.**Classifications:****US:** D24/155**Locarno class:** 24/03**Family:**

Publication number	Publication date	Application number	Application date
■ USD520637 S1	20060509	US20050232232F	20050616

Priority:

US20050232232F 20050616

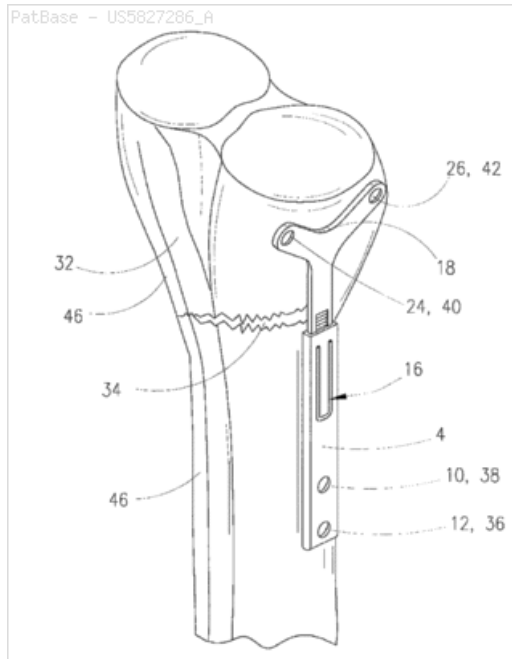
Probable Assignee: ORTHOHELIX SURGICAL DESIGNS**Assignee(s):** (std): ORTHOHELIX SURGICAL DESIGNS ; ORTHOHELIX SURGICAL DESIGNS IN**Assignee(s):** ORTHOHELIX SURGICAL DESIGNS INC ; BANK OF AMERICA NA ADMINISTRATIVE AGENT AS ; MIDCAP FINANCIAL TRUST AGENT AS ; ORTHOHELIX SURGICAL DESIGN INC**Inventor(s):** (std): DUCHARME DUSTIN ; KAY DAVID B ; STRNAD LEE A ; WYNKOOP G MARTIN**Inventor(s):** DUCHARRME DUSTIN**Agent(s):** HUDAK SHUNK AND FARINE CO LPA**11) Family number: 11736146 (US5827286A)**

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Title: INCREMENTALLY ADJUSTABLE TIBIAL OSTEOTOMY FIXATION DEVICE AND METHOD

Abstract: A fully implantable, incrementally adjustable osteotomy fixation apparatus is disclosed. The apparatus comprises a first plate member, and a second plate member being telescopically received within the first plate member. The osteotomy fixation apparatus may further comprise a ratchet assembly, operatively associated with the first and second plate member, which allows for advancement of the first plate member relative to the second plate member, but prevents retraction. Attachment means operatively associated with the first and second plate members are provided for attaching the apparatus to the bone. The apparatus may also include an external extension brace, operatively associated with the ratchet, for extending the second plate member relative to the first plate member so that post-operative angular correction of the bone may be achieved. A method of performing an osteotomy to the bone is also disclosed utilizing the fixation apparatus herein disclosed.

Classifications:**International (IPC 8-9):** A61B17/80 (Advanced/Invention); A61B17/68 (Core/Invention)**International (IPC 1-7):** A61B17/80**CPC:** A61B17/8009 A61B17/8023 A61B17/8061 A61B17/8095**European:** A61B17/80A1 K61B17/80B K61B17/80H**US:** 606/282 606/297 606/309 606/69 606/71 606/73



Family:

Publication number	Publication date	Application number	Application date
US5827286 A	19981027	US19970801055	19970214
US5964763 A	19991012	US19980092690	19980605

Priority:

US19970801055 19970214 US19980092690 19980605

Probable Assignee: ORTHOPAEDICS DESIGN LLC

Assignee(s): (std): CHURCHILL DAVID L

Assignee(s): INCAVO STEPHEN J ; ORTHOPAEDICS DESIGN LLC ; ORTHOPAEDICS DESIGN LLC DEPARTMENT OF ORTHOPAEDICS ; BEYNNON BRUCE D ; CHURCHILL DAVID L

Inventor(s): (std): BEYNNON BRUCE D ; CHURCHILL DAVID L ; CHURCHILL DAVID L ; INCAVO STEPHEN J

12) Family number: 31497176 (US2005027301A)

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Title: DRILL GUIDE ASSEMBLY FOR A BONE FIXATION DEVICE

Abstract: A drill guide has a handle for holding and is configured to actuate a plate-engaging mechanism. An elongated member extends between proximal and distal portions with the proximal portion associated with the handle portion and the distal portion associated with the plate-engaging mechanism. The plate-engaging mechanism is actuated by an actuating member actuated by the second handle portion. The drill guide includes at least one guide sleeve rotatably coupled to the elongated member by a proximal and distal coupler. Furthermore, the plate-engaging mechanism includes a bone plate-engaging portion configured to couple with a bone plate when the second handle portion is moved in a first direction with respect to said first handle portion.

Classifications:

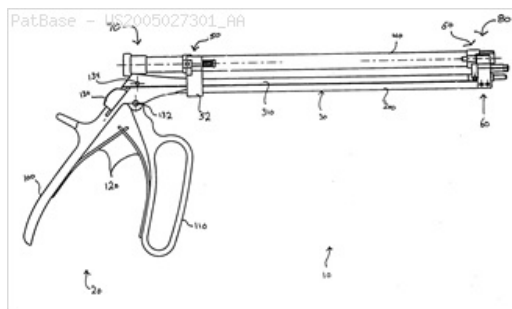
International (IPC 8-9): A61B17/17 A61B17/56 A61B17/58 A61B17/60 A61B17/90 A61F2/00 (Advanced/Invention); A61B17/17 (Advanced/Non-invention); A61B17/16 A61B17/56 A61B17/58 A61B17/60 A61B17/88 A61F2/00 (Core/Invention); A61B (Subclass/Invention)

International (IPC 1-7): A61B1/00 A61B17/58 A61F2/00

CPC: A61B17/1728 A61B17/1757

European: A61B17/17P

US: 606/96 606/96P



Family:

Publication number	Publication date	Application number	Application date
AU2004260688 AA	20050210	AU20040260688	20040730
BRPI0413170 A	20061003	BR2004PI13170	20040730
CA2533908 AA	20060127	CA20042533908	20040730
CN1870944 A	20061129	CN200480028906	20040730
EP1659920 A2	20060531	EP20040779722	20040730
IN00731CN2006 A	20070629	IN2006CN00731	20060228
JP2007501063 T2	20070125	JP20060522641T	20040730
KR20060123057 A	20061201	KR20067002253	20040730
US2005027301 AA	20050203	US20040903649	20040730
US2006241646 AA	20061026	US20060449097	20060607
US7081119 BB	20060725	US20040903649	20040730
US7985229 BB	20110726	US20060449097	20060607
WO05011478 A2	20050210	WO2004US24754	20040730
WO05011478 A3	20060504	WO2004US24754	20040730

Priority:

US20030491898 20030801 US20030491898P 20030801 US20040903649 20040730
WO2004US24754 20040730 US20060449097 20060607

Probable Assignee: SYNTHES USA LLC

Assignee(s): (std): HFSC CO ; STIHL PASCAL ; SYNTHES GMBH ; SYNTHES USA LLC ; SYNTHES HOLDING AG

Assignee(s): SYNTHES USA ; SYNTHES (USA) ; SYNTHES ; HFSC COMPANY ; PASCAL STIHL

Inventor(s): (std): PASCAL STIHL ; STIHL PASCAL

Agent(s): PHILLIPS ORMONDE FITZPATRICK; OSLER HOSKIN AND HARCOURT LLP; JONES DAY; MCKEON MUENIER CARLIN CURFMAN

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 NA 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

13) Family number: 10759202 (US5741258A)

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Title: Lock washer for bone plate osteosynthesis

Abstract: A lockwasher is provided for attaching a bone screw to a bone plate, thus making up an osteosynthetic system. The washer has a threaded screw hole, a lower section with a surface to be applied to a bone and an upper section shaped to be retained in a plate borehole, the lower section being of less than average width than the upper section.

Classifications:

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

A61B17/86 (Advanced/Invention);

A61B17/86 (Advanced/Non-invention)

International (IPC 1-7): A61B17/00 A61B17/58 A61B17/80

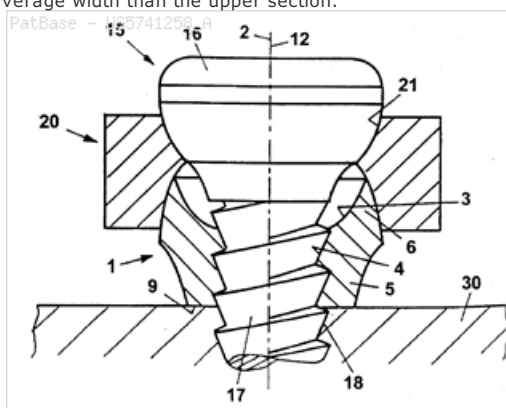
CPC: A61B17/8028 A61B17/8033 A61B17/8047 A61B17/8057

A61B17/86 A61B17/8695

European: A61B17/80C A61B17/80D A61B17/80F2 A61B17/86

K61B17/80C K61B17/80D6 K61B17/80F2 K61B17/86W

US: 606/288 606/289 606/301 606/309 606/69 606/70



Family:

Publication number	Publication date	Application number	Application date
CA2132832 AA	19940923	CA19932132832	19930125
CA2132832 C	20010814	CA19932132832	19930125
DE59308616 D1	19980702	DE19935008616	19930125
EP0633750 A1	19950118	EP19930902013	19930125
EP0633750 B1	19980527	EP19930902013	19930125
JP3386812 B2	20030317	JP19940516528T	19930125
JP7505562 T2	19950622	JP19940516528T	19930125
US5741258 A	19980421	US19970864002	19970527
US5810823 A	19980922	US19970800080	19970212
WO9416634 A1	19940804	WO1993CH00018	19930125

Priority:

CA19932132832 19930125 WO1993CH00018 19930125 US19940302968 19940912
US19970800080 19970212 US19970864002 19970527

Probable Assignee: SYNTHES USA LLC

Assignee(s): (std): KLAUE KAJ ; MAST JEFFREY W ; SYNTHES AG ; SYNTHES USA

Assignee(s): SYNTHES U S A ; SYNTHES USA LLC ; SYNTHES AG CHUR ; SYNTHES AG CHUR CHUR GRAUBUENDEN CH ; SYNTHES ; SYNTHES (USA)

Inventor(s): (std): KLAUE KAJ ; MAST JEFFREY ; MAST JEFFREY W

Inventor(s): MAST JEFFREY W GROSSE POINTE PARK MI 48230 US ; KLAUE KAJ CH 3005 BERN CH

Agent(s): BORDEN LADNER GERVAIS LLP

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

14) Family number: 42026207 (US2004059334A)

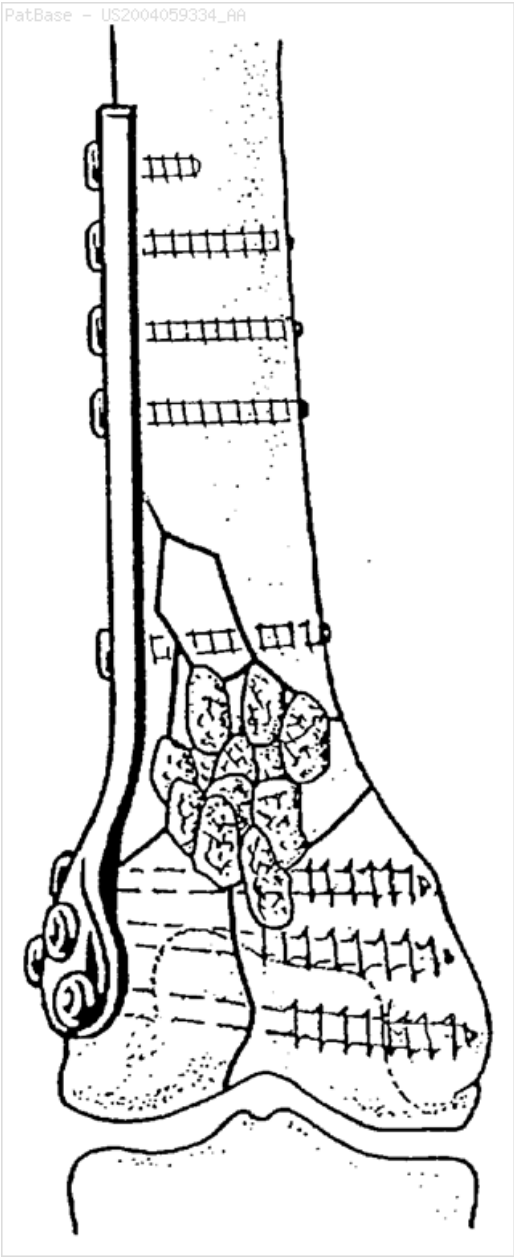
© PatBase

Title: BONE PLATING SYSTEM

Abstract: The present invention relates to a bone plating system and method for fracture fixation of bone. The bone plating system includes a bone plate, at least one locking screw, and at least one non-locking screw. The bone plate has locking holes with threads and non-locking holes. The locking screws have a shaft with a thread for engaging bone and a head with a thread configured and dimensioned to mate with the thread of the locking holes. The non-locking screws have a thread for engaging bone and a non-threaded head. Both the locking and non-locking screws remain seated in their respective holes for substantially as long as the bone plate is implanted. The non-locking screws compress the bone plate against the bone and hold fracture reduction while the locking screws are secured to the plate at a fixed angular relationship. The mixed fixation achieved by this bone plating system and method is particularly useful for treatment of per-articular fractures.

Classifications:

International (IPC 8-9): A61B17/56 A61B17/58 A61B17/80
A61B17/86 (Advanced/Invention);
A61B17/58 (Advanced/Non-invention)
International (IPC 1-7): A61B17/56 A61B17/58 A61B17/80
CPC: A61B17/8061 Y10S606/902 A61B17/8625 A61B17/80
A61B17/8057
European: A61B17/80F2 A61B17/80H
US: 1/1 606/280 606/280P 606/280S 606/281 606/282 606/282P
606/282S 606/286 606/286S 606/291 606/291P 606/291S 606/301
606/301S 606/308 606/308P 606/311 606/312 606/69 606/902
606/902S



Family:

Publication number	Publication date	Application number	Application date
AT257674 E	20040115	AT20000954253T	20000906
AU200066803 A1	20010417	AU20000066803	20000906
AU200066803 A5	20010417	AU20000066803	20000906
AU754857 B2	20021128	AU20000066803	20000906
CA2408327 AA	20021106	CA20002408327	20000906
CA2408327 C	20061219	CA20002408327	20000906
CN1172634 C	20041027	CN20008012765	20000906
CN1373646 A	20021009	CN20008012765	20000906
DE60007758 D1	20040219	DE20006007758	20000906
DE60007758 D1	20040219	DE20006007758T	20000906
DE60007758 T2	20040923	DE20006007758T	20000906
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EP1211992 A1	20020612	EP20000954253	20000906
EP1211992 B1	20040114	EP20000954253	20000906
ES2211583 T3	20040716	ES20000954253T	20000906
JP2003509107 T2	20030311	JP20010522907T	20000906
JP4259015 B2	20090430	JP20010522907T	20000906
PT1211992 T	20040630	PT20000954253T	20000906
TW477687 B	20020301	TW20000118602	20000911
US2004059334 AA	20040325	US20030665431	20030922
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US2005080421 AA	20050414	US20040923566	20041217
US2008132960 AA	20080605	US20080017834	20080122
US2014121710 AA	20140501	US20140146196	20140102
US2016074081 AA	20160317	US20150948989	20151123
US6623486 BA	20030923	US20000660287	20000912
US6623486 C1	20150623	US20000660287	20000912
US7128744 BB	20061031	US20030665505	20030922

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US7341589 BB	20080311	US20030665431	20030922
US8641744 BB	20140204	US20040923566	20041217
US9211151 BB	20151215	US20140146196	20140102
WO0119267 A1	20010322	WO2000C00474	20000906
ZA200200992 A	20030226	ZA20020000992	20020205

Priority:

US19990153239P 19990913	US19990153293P 19990913	WO2000C00474 20000906
US20000660287 20000912	US20030665505 20030922	US20030665431 20030922
US20040923566 20041217	US20080017834 20080122	US20140146196 20140102
US20150948989 20151123		

Probable Assignee: DEPUY SYNTHES PRODUCTS INC

Assignee(s): (std): DEPUY SYNTHES PRODUCTS INC ; DEPUY SYNTHES PRODUCTS LLC ; BOLHOFNER BRETT R ; SYNTHES AG ; LITTLE DAVID ; MAST JEFF W ; MAYO KEITH A ; SYNTHES USA ; WEAVER PAUL C ; ORTIZ CHUR BLETHYN AG

Assignee(s): SYNTHES U S A ; SYNTHES USA LLC ; SYNTHES GMBH ; SYNTHES CHUR CHUR AG ; SYNTHES ; SYNTHES AKTIENGESELLSCHAFT ; SYNTHES (USA) ; SYNTHES CHUR AG ; SYNTHES AG CHUR CHUR ; CHUR SYNTHES AG ; DEPUY SPINE LLC ; HAND INNOVATIONS LLC ; SYNTHES AG CHUR

Inventor(s): (std): WEAVER PAUL C ; WEAVER PAUL ; WEAVER C ; MAYO A ; MAST W ; MAST JEFF W ; LITTLE DAVID ; MAYO KEITH A ; BOLHOFNER R ; BOLHOFNER BRETT R ; BOLHOFNER BRET R

Inventor(s): BOLHOFNER BRETT ; MAYO KEITH ; KEITH A MAYO ; JEFF W MAST ; DAVID LITTLE ; BRETT R BOLHOFNER ; MAST JEFF ; PAUL C WEAVER

Agent(s): PHILLIPS ORMONDE FITZPATRICK; OSLER HOSKIN AND HARCOURT LLP; PENNIE AND EDMONDS LLP; FAY KAPLUN AND MARCIN LLP; JONES DAY; WOODCOCK WASHBURN LLP; BAKER AND HOSTETLER LLP

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

15) Family number: 45033232 (US7727264B)

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Title: INTRAMEDULLARY FIXATION DEVICE FOR METAPHYSEAL LONG BONE FRACTURES

Abstract: A fixation system (10) includes a device having a nail portion (12) and a plate portion (14), preferably horizontally and vertically offset relative to the nail portion by a neck portion (16). The nail portion (12) includes preferably threaded screw holes (24, 26), and the plate portion (14) includes longitudinally displaced peg holes (50, 52, 54), each of which is adapted to orient a peg (56, 58, 60) in a different orientation from the others. The system (10) also includes unicortical screws (28) having a reasonably large head (36) adapted to seat against the outer surface of the bone and a threaded shaft (32) adapted to engage in the screw holes (24, 26), and pegs (56, 58, 60) adapted to engage in the peg holes (50, 52, 54). Where threaded screw holes (24, 26) are used, bone is clamped between the nail portion (12) and the head (36) of the unicortical screws (28, 30). The pegs (56, 58, 60) provide stabilization and support for subchondral fragments. Moreover, as the pegs (56, 58, 60) preferably enter the subchondral fragments from a plurality of directions, additional fixation of the device (10) into the bone is provided.

Classifications:

International (IPC 8-9): A61B17/58 A61B17/72

A61B17/80 (Advanced/Invention);

A61B17/17 (Advanced/Non-invention);

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

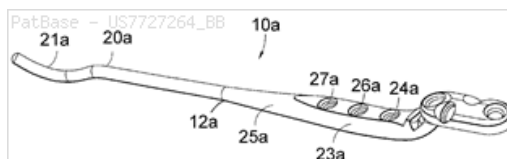
A61B17/16 (Core/Non-invention)

CPC: A61B17/863 A61B17/1725 A61B17/1728 A61B17/7233

A61B17/8057 A61B17/8061 A61B17/1782

European: A61B17/72E A61B17/80H A61B17/86B2 K61B17/17J K61B17/17M K61B17/17P K61B17/80F K61B17/80F2

US: 606/280 606/280S 606/291S 606/62P



Family:

Publication number	Publication date	Application number	Application date
US7727264 BB	20100601	US20030515699	20030509
US7727264 BB	20100601	US20050515699	20051125
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Priority:

US20000495854 20000201	US20000524058 20000313	US20000735228 20001212
US20020159611 20020530	US20020315787 20021210	US20030515699 20030509
WO2003US14775 20030509	US20050515699 20051125	

Probable Assignee: BIOMET CV

Assignee(s): (std): DEPUY PRODUCTS INC

Assignee(s): HAND INNOVATIONS LLC ; BIOMET CV

Inventor(s): (std): ORBAY JORGE L ; CASTANEDA JAVIER E

16) Family number: 48221239 (US2013204249A)

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Title: INTERNAL ASYMMETRICALLY DESIGNED 8-SHAPED STEEL PLATE FOR TEMPORARY HEMIEPIPHYSIODESIS AND APPLICATION THEREOF

Abstract: An internal asymmetrically designed 8-shaped steel plate (1) for temporary hemiepiphyseodesis includes two single orifice plates (11, 12). Each unilateral orifice plate (11, 12) is provided with a hinged opening (111,121). The two single orifice plates (11, 12) are connected by passing a pivot through the hinged openings (111, 121). The two single orifice plates (11, 12) can be assembled into the asymmetrically 8-shaped steel plate (1). The asymmetrically 8-shaped steel plate (1) is supplied with various specifications and can be provided with various combinations according to the irregular deformity condition on the two sides of patient's physal line (5).

Classifications:

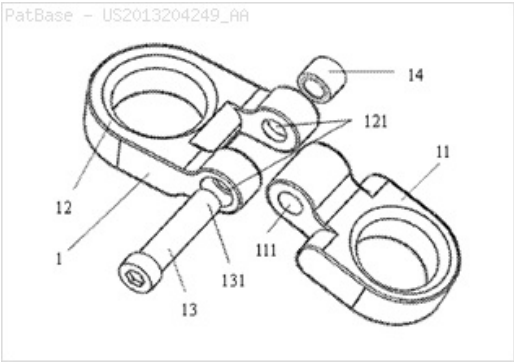
International (IPC 8-9): A61B17/68 A61B17/80 A61B17/88

A61B17/90 (Advanced/Invention)

CPC: A61B17/68 A61B17/1728 A61B17/1764 A61B17/8061

A61B17/808 A61B17/8095

European: A61B17/80H A61B17/80J K61B17/17P



Family:

Publication number	Publication date	Application number	Application date
CN101953711 A	20110126	CN201010507530	20101015
CN101953711 B	20120418	CN201010507530	20101015
US2013204249 AA	20130808	US20100879165	20101112
WO12048482 A1	20120419	WO2010CN78660	20101112

Priority:

CN201010507530 20101015 WO2010CN78660 20101112

Probable Assignee: XIN HUA HOSPITAL AFFILIATED TO SHANGHAI JIAO TONG UNIV SCHOOL OF MEDICINE

Assignee(s): (std): LI HAI ; XIN HUA HOSPITAL AFFILIATED TO SHANGHAI JIAO TONG UNIV SCHOOL OF MEDICINE ; XIN HUA HOSPITAL AFFILIATED TO SHANGHAI JIAO TONG UNIVERSITY SCHOOL OF MEDICINE ; ZHAO LI ; YU HONGLIU ; XINHUA HOSPITAL AFFILIATED TO SHANGHAI JIAO TONG UNIVERSITY SCHOOL OF MEDICINE ; XINHUA HOSPITAL AFFILIATED TO SHANGHAI JIAO TONG UNIV SCHOOL OF MEDICINE

Assignee(s): XIN HUA HOSPITAL AFFILIATED TO SHANGHAI JIAO TONGUNIVERSITY SCHOOL OF MEDICINE

Inventor(s): (std): HAI LI ; HONGLIU YU ; LI HAI ; LI ZHAO ; YU HONGLIU ; ZHAO LI

Agent(s): SHANGHAI ZHUOYANG INTELLECTUAL PROPERTY AGENT FIRM

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 TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

17) Family number: 30652264 (US2004111089A) © PatBase

Title: BONE ALIGNMENT IMPLANT AND METHOD OF USE

Abstract: A bone alignment implant includes a first bone fastener with a first bone engager that is adapted for fixation into the metaphyseal bone and a second bone fastener with a second bone engager that is adapted for fixation into the diaphyseal bone. A link connecting the two fasteners spans across the physis. These implants act as flexible tethers between the metaphyseal and the diaphyseal sections of bone during bone growth. These implants are designed to adjust and deform during the bone realignment process. When placed on the convex side of the deformity, the implant allows the bone on the concave side of the deformity to grow. During the growth process the bone is then realigned. A similar procedure is used to correct torsional deformities.

Classifications:

International (ipc 8-9): A61B17/17 A61B17/56 A61B17/58

A61B17/68 A61B17/80 A61B17/88 A61B5/00

A61F5/00 (Advanced/Invention);

A61B17/86 (Advanced/Non-invention);

A61B17/16 A61B17/56 A61B17/58 A61B17/68

A61F5/00 (Core/Invention)

International (ipc 1-7): A61B17/80

CPC: A61B17/80 A61B17/1728 A61B17/1764 A61B17/68

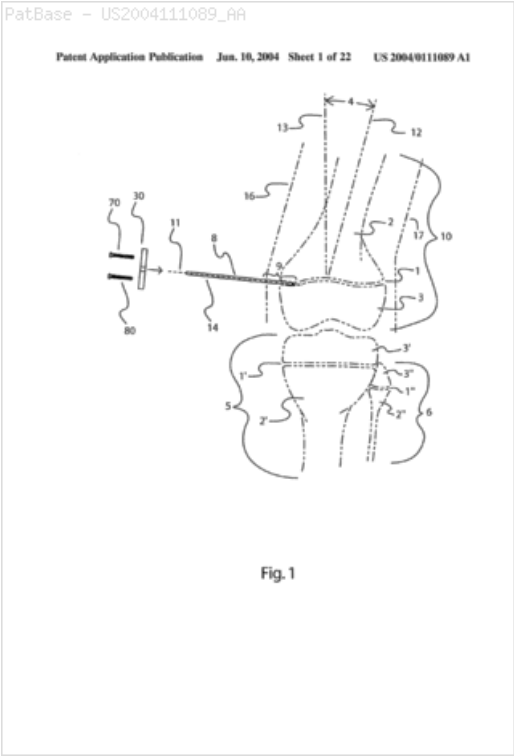
A61B17/8085 A61B17/8625 A61B17/8635 A61B17/1778

A61B17/1782

European: A61B17/17P A61B17/68 A61B17/80 A61B17/80P

K61B17/86B K61B17/86B4

US: 606/103 606/103S 606/280 606/280S 606/281 606/281P 606/281S 606/283 606/283S 606/286 606/286S 606/298 606/298S 606/301 606/301S 606/69 606/86.00BP 606/86B 606/87 606/87P 606/902 606/902S 606/907 606/907S 606/908 606/908S 606/909 606/909S 606/910 606/910S 623/13.12 623/13.14



Family:

Publication number	Publication date	Application number	Application date
US2004111089 AA	20040610	US20020310720	20021204
US2008161816 AA	20080703	US20080051152	20080319
US2012191139 AA	20120726	US20120417870	20120312
US7811312 BB	20101012	US20020310720	20021204
US8133230 BB	20120313	US20080051152	20080319
US8641742 BB	20140204	US20120417870	20120312

Priority:

US20020310720 20021204 US20080051152 20080319 US20120417870 20120312

Probable Assignee: PETER M STEVENS

Assignee(s): (std): JUSTIN DANIEL F ; MORPHOGRAPHICS LC ; STEVENS PETER M

Assignee(s): PETER M STEVENS

Inventor(s): (std): JUSTIN DANIEL F ; STEVENS PETER M

Agent(s): WORKMAN NYDEGGER

18) Family number: 21692285 (US2511051A)

© PatBase

Title: FASTENING DEVICE

Abstract: (Claim 1) 1. A fastening device of the type to be assembled with the aid of a guide tool having a non- circular shank and a tip% of reduced diameter at the encl; thereof; comprising a first fastening member formed with a threaded stud and a socket of a size to accommodate the tip extending inwardly at the end of the stud, and a second fa-steniing member in the form of a sleeve with an opening extending completely therethrough, a portion of the opening being circular and threaded and_ being interengaged with the threa,ded stud of the first fastening member, and another portion of the opening being noncircular and of smaller diameter and conforming in cross-sectional size and sh,,Lpe wit).i the shank of the guide tool Nvhereby the shank of the guide tool may be inserted through the opening in the second mentioned rmember with the tip projecting into the socket of the first rmentioned member to alian the mc- ,rnbers for interengagement between the threa(ied st.LLd and the threaded, partion of the odening'

Classifications:

International (IPC 8-9): A61B17/68 F16B35/04

F16B37/14 (Advanced/Invention);

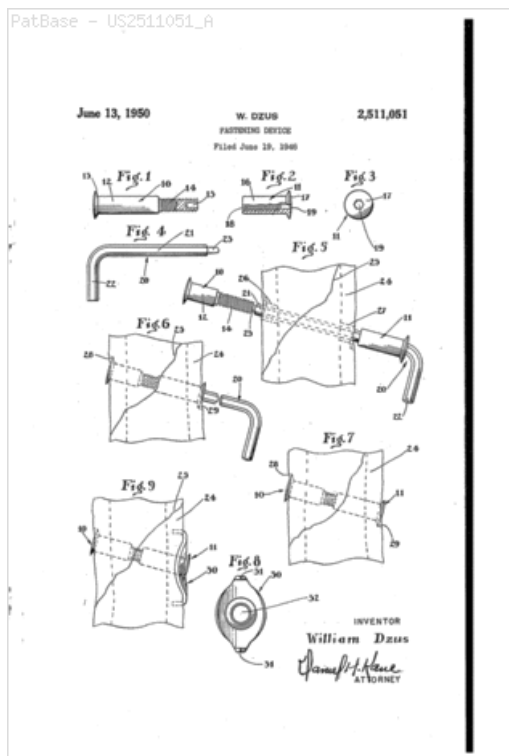
A61B17/68 F16B35/04 F16B37/00 (Core/Invention)

International (IPC 1-7): A61B17/18 F16B35/00

CPC: Y10S606/916 A61B17/683 F16B35/044 F16B37/14S

European: A61B17/68D F16B35/04B2 F16B37/14S

US: 411/338 606/104 606/301 606/73 606/916 81/451



Family:

Publication number	Publication date	Application number	Application date
US2511051 A	19500613	US19460677775	19460619

Priority:

US19460677775 19460619

Probable Assignee:

WILLIAM DZUS

Assignee(s): (std):

WILLIAM DZUS

Inventor(s): (std):

WILLIAM DZUS

Inventor(s):

DZUS WILLIAM

19) Family number: 50464297 (WO13064264A1)

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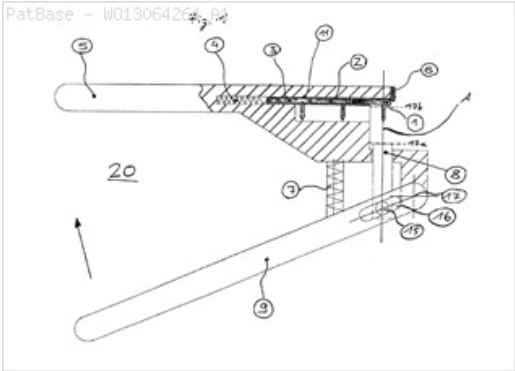
Title: DELIVERY INSTRUMENT FOR USE IN BONE SURGERY AND SYSTEM FOR DELIVERING A CONNECTING ELEMENT FOR USE IN BONE SURGERY TO A BONE PLATE

Abstract: Disclosed is a delivery instrument for use in bone surgery (20) for delivering at least one connecting element for

use in bone surgery (1, 2, 3) with at least one extension (14a, 14b) to a bone plate (10). The delivery instrument comprises a receiving device (11) that is designed to receive the at least one connecting element for use in bone surgery; and a driver device (8) that is designed to drive the extension into an edge section of the bone plate, the delivery instrument for use in bone surgery being configured to receive the edge section of the bone plate between the receiving device and the driver device. Further disclosed is a system comprising the delivery instrument for use in bone surgery and at least one of the connecting elements for use in bone surgery.

Classifications:

International (IPC 8-9): A61B17/17 A61B17/58 A61B17/68
A61B17/80 A61B17/86 A61B17/88 B25B23/00 (Advanced/Invention)
CPC: A61B17/808 A61B17/1728 A61B17/688 A61B17/92
A61B2017/922
European: A61B17/88 K61B17/68S K61B17/92M



Family:

Publication number	Publication date	Application number	Application date
DE202011107521 U1	20120119	DE201120107521U	20111104
WO13064264 A1	20130510	WO2012EP04574	20121102

Priority:

DE201120107521U 20111104

Probable Assignee: CIVAL MEDICAL GMBH

Assignee(s): (std): CIVAL MEDICAL GMBH

Inventor(s): (std): DIEZ INGOLF

Agent(s): VON HELLFELD AXEL

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 IS IT JP KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW 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

20) Family number: 66205313 (US2017181780A)

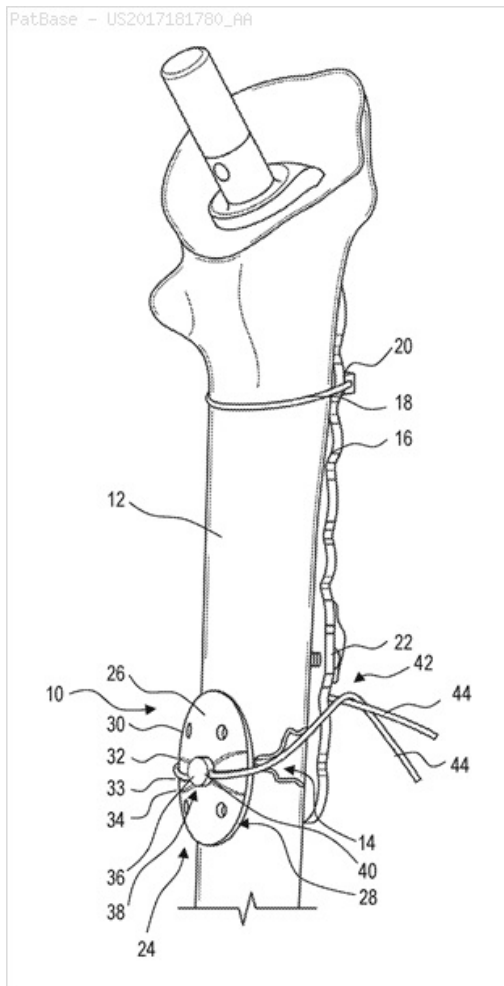
© PatBase

Title: BONE PLATE WITH ELONGATED GUIDING CHANNELS

Abstract: A bone plate has bone facing side, a front side being arranged substantially opposite to and facing away from the bone facing side, and at least a first and a second elongated guiding channel. The first and second guiding channels are configured to receive a flexible elongated member such as, for example, a cerclage wire, and the first and second guiding channel are each further configured to guide the elongated member along a respective first and second guiding channel axis (A, B) from a first to a second lateral region of the bone plate. The first and second guiding channel axes (A, B) cross each other in at least one region of the bone plate outer front side.

Classifications:

International (IPC 8-9): A61B17/80 A61B17/82 (Advanced/Invention)
CPC: A61B17/8028 A61B17/8057 A61B17/80 A61B17/809
A61B17/82

**Family:**

Publication number	Publication date	Application number	Application date
EP3184064 A1	20170628	EP20150003672	20151223
US2017181780 AA	20170629	US20160389644	20161223

Priority:

EP20150003672 20151223

Probable Assignee: STRYKER EUROPEAN HOLDINGS I LLC**Assignee(s):** (std): STRYKER EUROPEAN HOLDINGS I LLC**Inventor(s):** (std): CREMER AXEL ; HEINSOHN JAN ; WESTIN NICOLE ; CREMER AXEL BERNHARD**Agent(s):** ROETHINGER RAINER**Designated states:** AL AT BA BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC ME MK MT NL NO PL PT RO RS SE SI SK SM TR**21) Family number: 28186326 (US5364399A)**

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Title: ANTERIOR CERVICAL PLATING SYSTEM

Abstract: An anterior cervical plating system is disclosed which includes an elongated plate having a pair of bone screw bores at opposite ends of the plate, and with bone screw slot configurations in the middle bridge portion of the plate. A single locking screw is provided at each end of the plate which engages the heads of the bone screws trapped within recesses of the plate. The locking screw provides a rigid fixation of the screws to the plate, while the heads of the screws are flush or recessed below the upper surface of the plate. The invention further contemplates a drill and tap guide assembly which can be mounted on the fixation plate to provide a firm foundation for accurately drilling and tapping screw holes into the vertebra to be instrumented. The drill and tap guide assembly includes an assembly support which is engaged to the plate by way of a positioning screw and cross pins mounting the positioning screw to the guide body. A tap sleeve and drill guide can then be supported by the assembly support, which both thereby provide accurate positioning for a drill.

Classifications:

International (IPC 8-9): A61B17/16 A61B17/17 A61B17/56 A61B17/58 A61B17/70 A61B17/80 A61B17/88 A61B17/90 C07D213/71 (Advanced/Invention);

A61B17/16 A61B17/56 A61B17/58 A61B17/80 (Advanced/Non-invention);

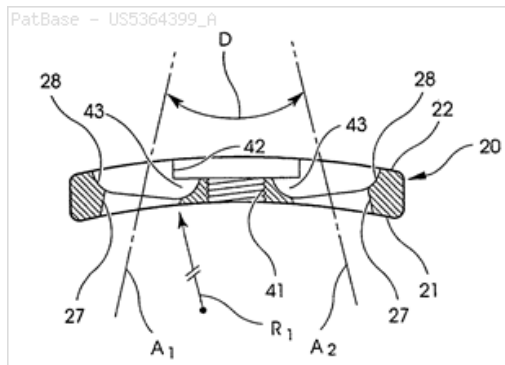
C07D213/00 (Core/Invention)

International (IPC 1-7): A61B17/16 A61B17/17 A61B17/56 A61B17/58 A61B17/68 A61B17/70 A61B17/88 A61B17/90

CPC: A61B17/80 A61B17/808 A61B17/7059 A61B17/1655 A61B17/1728 A61B17/1757 A61B17/8042 A61B17/8052

European: A61B17/17P A61B17/70K A61B17/80F A61B17/80J K61B17/80 K61B17/80D4 K61B17/80F

US: 606/281 606/286 606/291 606/295 606/61 606/69 606/86.00B 606/86B 606/96

**Family:**

Publication number	Publication date	Application number	Application date
AT207329 E	20011115	AT19940907308T	19940124
AU199460948 A1	19940829	AU19940060948	19940124
AU199481255 A1	19950522	AU19940081255	19941026
AU679587 B2	19970703	AU19940081255	19941026
AU692147 B2	19980604	AU19940060948	19940124
CA2154470 AA	19950721	CA19942154470	19940124
CA2154470 C	20040518	CA19942154470	19940124
CA2172369 AA	19960321	CA19942172369	19941026
CN1119411 A	19960327	CN19941091413	19940124
CN1138291 A	19961218	CN19941094558	19941026
DE69428780 D1	20011129	DE19946028780	19940124
DE69428780 T2	20020711	DE19946028780T	19940124
DK0683646 T3	20020211	DK19940907308T	19940124
EP0683646 A1	19951129	EP19940907308	19940124
EP0683646 A4	19960731	EP19940907308	19940124
EP0683646 B1	20011024	EP19940907308	19940124
EP0744920 A1	19961204	EP19950900428	19941026
EP0744920 A4	19970528	EP19950900428	19941026
EP1106144 A1	20010613	EP20010200941	19940124
ES2165384 T3	20020316	ES19940907308T	19940124
HK1005682 A1	20020426	HK19980104818	19980603
JP3537436 B2	20040614	JP19940518080T	19940124
JP8506502 T2	19960716	JP19940518080T	19940124
JP9504213 T2	19970428	JP19950512791T	19941026
KR100315572 B1	20020424	KR19950703286	19940124
KR19960700658 A	19960224	KR19950703286	19940124
KR19967005506 A	19961108	KR19967002192	19941026
PT683646 T	20020429	PT19940907308T	19940124
TR28594 A	19961101	TR19940000129	19940203
TW285636 B	19960911	TW19940103813	19940427
US5364399 A	19941115	US19930014415	19930205
US5423826 A	19950613	US19930145079	19931029
WO9417744 A1	19940818	WO1994US00851	19940124
WO9511632 A1	19950504	WO1994US12259	19941026
ZA9400777 A	19940908	ZA19940000777	19940204

Priority:

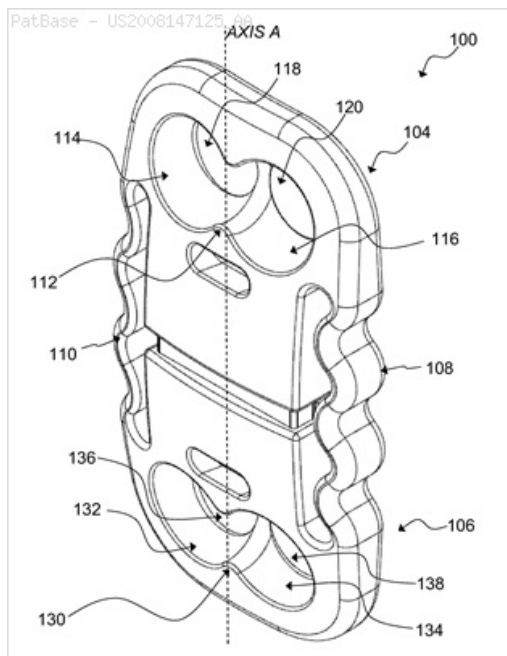
US19930014415 19930205 US19930145079 19931029 EP19940907308 19940124
 WO1994US00851 19940124 WO1994US12259 19941026

Probable Assignee: SDGI HOLDINGS INC**Assignee(s):** (std): DANEK MEDICAL INC ; SDGI HOLDINGS INC**Assignee(s):** SHERMAN MICHAEL C ; WARSAW ORTHOPEDIC INC ; LOWERY GARY ; LOWERY GARY L ; NANEK MEDICAL INC ; RAY EDDIE F III ; COATES BRADLEY J ; DANEK MEDICAL**Inventor(s):** (std): LOWERY GARY L ; LOWERY GARY ; LOWERY G L ; SHERMAN MICHAEL C ; SHERMAN C ; RAY III EDDIE F ; RAY F ; RAY EDDIE F III ; COATES J ; COATES BRADLEY J ; COATES B J**Inventor(s):** BRADLEY J COATES ; B J COATES ; RAY EDDIE F ; MICHAEL C SHERMAN ; GARY LOWERY ; GARY L LOWERY ; G L LOWERY ; EDDIE F RAY III ; EDDIE F III RAY**Agent(s):** SPRUSON AND FERGUSON; ASPEN PHARMA PTY LTD; SMART AND BIGGAR**Designated states:** AM AT AU BB BE BF BG BJ BR BY CA CF CG CH CI CM CN CZ DE DK EE ES FI FR GA GB GE GN GR HU IE IT JP KE KG KP KR KZ LI LR LK LT LU LV MC MD MG ML MN MR MW NE NL NO NZ PL PT RO RU SD SE SI SK SN SZ TD TG TJ TT UA UZ VN**22) Family number: 20397327** (US5810822A)

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Title: APPARATUS FOR CORRECTING LONG BONE DEFORMATION

Abstract: PCT No. PCT/FR95/00544 Sec. 371 Date Oct. 21, 1996 Sec. 102(e) Date Oct. 21, 1996 PCT Filed Apr. 26, 1995 PCT Pub. No. WO95/28887 PCT Pub. Date Nov. 2, 1995 The apparatus of the invention includes at least a first device (21) with a rigid elongated body (1) including two main sections angularly coupled with each other by an angular coupling region forming an angle substantially equal to the angular correction to be applied to a bone (18). First anchoring elements (5) shaped as pins are provided to be transversely attached to the proximal portion (24) of the bone (18); second anchoring elements in the form of bone screws (26) are provided to be attached to the diaphysis portion of the bone (18). The first device (21) is positioned on the bone (18) following an opening osteotomy (23). A second device (22) in the form of a four pin



Family:

Publication number	Publication date	Application number	Application date
US2008147125 AA	20080619	US20070954921	20071212
US2008154312 AA	20080626	US20070955077	20071212

Priority:

US20060869577P 20061212 US20070954921 20071212 US20070955077 20071212

Probable Assignee: THEKEN SPINE LLC

Assignee(s): (std): COLLERAN DENNIS ; SPITLER JAMES

Assignee(s): THEKEN SPINE LLC ; SILICON VALLEY BANK AS AGENT AND AS A LENDER ; GE BUSINESS FINANCIAL SERVICES INC ; GE BUSINESS FINANCIAL SERVICES INC F K A MERRILL L ; GE BUSINESS FINANCIAL SERVICES INC F K A MERRILL LYNCH BUSINESS FINANCIAL SERVICES INC A LENDER AS ; INNOVATIVE SPINAL TECHNOLOGIES ; SILICON VALLEY BANK AGENT AND A LENDER AS

Inventor(s): (std): COLLERAN DENNIS ; SPITLER JAMES

Agent(s): CARR LLP (IST); CARR LLP IST

24) Family number: 11319365 (US5921988A)

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Title: Installation instrument for a blade suture clip for osteological removal for the treatment of inflammation of the knee joint

Abstract: Installation for a blade suture clip for osteological removal for treatment of the inflammation of the knee joint. The instrument consists of a positioning-reduction frame presenting an opening meant to position a piercing block in order to create holes allowing the installation of the blade suture clip. The opening is limited by two proximal edges and two distal edges, and two lateral edges presenting an extension similar to that of the blade suture clip. The proximal part of each of the lateral edges contains superimposed holes to position the positioning reduction frame by means of pins, while the distal edge contains a hole designed for the passage of the proximal bit of a tightening instrument allowing adjustment of compression while the distal bit is introduced in a hole pierced in the tibia under the distal edge of the positioning-reduction frame at a certain distance.

Classifications:

International (IPC 8-9): A61B17/17 A61B17/74

A61B17/80 (Advanced/Invention);

A61B17/88 (Advanced/Non-invention);

A61B17/16 A61B17/68 (Core/Invention);

A61B17/88 (Core/Non-invention)

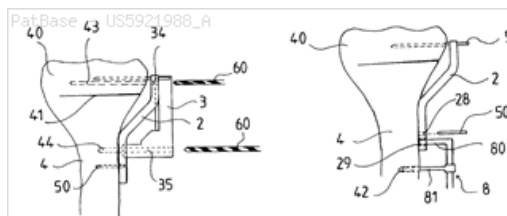
International (IPC 1-7): A61B17/17 A61B17/74 A61B17/80

A61B17/88 A61F5/04

CPC: A61B17/1728 A61B17/8004 A61B17/1764 A61B17/8095

European: A61B17/17P A61B17/80S K61B17/80A

US: 606/87



Family:

Publication number	Publication date	Application number	Application date
CA2220976 AA	19990510	CA19972220976	19971110
EP0841037 A1	19980513	EP19970440103	19971107
FR2755600 A1	19980515	FR19960013840	19961108
FR2755600 B1	19990205	FR19960013840	19961108
US5921988 A	19990713	US19970967576	19971110

Priority:

FR19960013840 19961108 CA19972220976 19971110 FR19960013840 19971110

Probable Assignee: PROSEAL

Assignee(s): (std): PROSEAL

Assignee(s): LEGRAND JEAN JACQUES

Inventor(s): (std): LEGRAND JEAN JACQUES

Agent(s): SIM AND MCBURNEY
Designated states: AT BE CH DE DK ES FI FR GB GR IE IT LI NL SE

25) Family number: 48095393 (USD630750S)

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Title: RADIAL HEAD/NECK FRACTURE FIXATION PLATE

Abstract: (Claim 1) 1. CLAIM The ornamental design for a radial head/neck fracture fixation plate, as shown and described.

Classifications:

US: D24/155

Locarno class: 24/02



Family:

Publication number	Publication date	Application number	Application date
■ USD630750 S1	20110111	US20090343706F	20090917

Priority:

US20090343706F 20090917

Probable Assignee: UPEX HOLDINGS LLC
Assignee(s): (std): UPEX HOLDINGS LLC
Assignee(s): UPEX LLC
Inventor(s): (std): GRAHAM THOMAS J
Agent(s): MCHALE AND SLAVIN PA

26) Family number: 31483396 (US2005015092A)

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Title: PLATING SYSTEM WITH MULTIPLE FUNCTION DRILL GUIDE

Abstract: A bone fixation system including a bone plate and surgical drill guide is provided. The drill guide assembly includes one or more alignment drill tubes that are remotely aligned with corresponding fastener holes in the bone plate, and a plate holder to engage a hole in the bone plate. The surgical drill guide is releasably lockable to the plate holder.

Classifications:

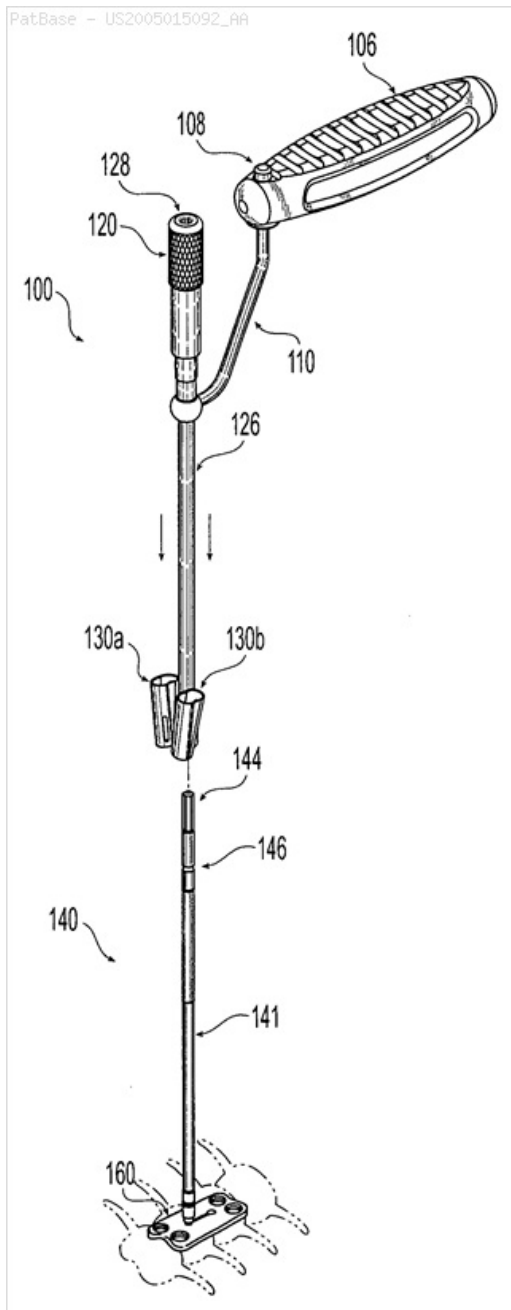
International (IPC 8-9): A61B17/16 A61B17/17 A61B17/58
A61B17/60 A61B17/72 A61B17/80 A61F2/00 (Advanced/Invention);
A61B17/58 A61B17/72 A61B17/80 (Advanced/Non-invention);
A61B17/16 A61B17/58 A61B17/60 A61B17/68
A61F2/00 (Core/Invention);
A61B A61L (Subclass/Invention)

International (IPC 1-7): A61B17/58 A61B17/80 A61F2/00

CPC: A61B17/8057 A61B17/1728 A61B17/1757

European: A61B17/17P A61B17/80F2

US: 606/86 606/87 606/88 606/89 606/96 606/96P 606/97 606/98

**Family:**

Publication number	Publication date	Application number	Application date
AT498368 E	20110315	AT20040757129T	20040716
AU2004258937 AA	20050203	AU20040258937	20040716
BRPI0412677 A	20061003	BR2004PI12677	20040716
CA2532747 AA	20060116	CA20042532747	20040716
CN1909849 A	20070207	CN200480026684	20040716
DE602004031429 D1	20110331	DE200460031429T	20040716
EP1651122 A2	20060503	EP20040757129	20040716
EP1651122 A4	20080813	EP20040757129	20040716
EP1651122 B1	20110216	EP20040757129	20040716
ES2363270 T3	20110728	ES20040757129T	20040716
IN00559CN2006 A	20070622	IN2006CN00559	20060215
JP2007523693 T2	20070823	JP20060520409T	20040716
KR20060035762 A	20060426	KR20067001039	20040716
US2005015092 AA	20050120	US20030619472	20030716
US2005015093 AA	20050120	US20040837085	20040430
US7731721 BB	20100608	US20030619472	20030716
WO05009487 A2	20050203	WO2004US23193	20040716
WO05009487 A3	20051020	WO2004US23193	20040716
ZA200600858 A	20070725	ZA20060000858	20040716

Priority:

US20030619472 20030716 US20040837085 20040430 WO2004US23193 20040716

Probable Assignee: SYNTHES USA LLC

Assignee(s): (std): RATHBUN DAVID S ; STIHL PASCAL ; RYAN CHRISTOPHER J ; HFSC CO ; BINDER LAWRENCE J JR ; DUONG LAN ANH ; SYNTHES USA LLC ; SUH SEAN S ; SYNTHES GMBH ; SYNTHES HOLDING AG

Assignee(s): BINDER LAWRENCE J ; SYNTHES ; SYNTHES (USA) ; SYNTHES USA ; DUONG LAN ANH N ; DEPUY SPINE LLC ; DEPUY SYNTHES PRODUCTS LLC ; HFSC COMPANY ; ROTH CHRISTOPH ANDREAS ; HAND

INNOVATIONS LLC

Inventor(s): (std): ANH DUONG LAN ; ANH RATHBUN DAVID S BINDER LAW ; BINDER LAWRENCE J JR ; DUONG LAN ANH ; PASCAL STIHL ; RATHBUN DAVID S ; ROTH CHRISTOPH ANDREAS ; RYAN CHRISTOPHER J ; STIHL PASCAL ; DUONG LAN ANH N ; DUONG LAN ; BINDER LAWRENCE J ; BINDER JR LAWRENCE J ; SUH SEAN S

Inventor(s): LAWRENCE J BINDER JR ; SUH SEAN ; SEAN S SUH ; RYAN CHRISTOPHER ; RATHBUN DAVID S BINDER LAWRENCE J JR SUH SEAN S ST ; ROTH CHRISTOPH ; RATHBUN DAVID ; LAN ANH DUONG ; LAWRENCE J JR BINDER ; CHRISTOPHER J RYAN ; DAVID S RATHBUN ; BINDER LAWRENCE

Agent(s): PHILLIPS ORMONDE FITZPATRICK; OSLER HOSKIN AND HARCOURT LLP; ROSENICH PAUL; JONES DAY; STROOCK AND STROOCK AND LAVAN 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 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 SN SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

27) Family number: 31389402 (US2002026194A)

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Title: MULTI-AXIAL BONE ANCHOR SYSTEM

Abstract: A multi-axial bone fixation implant includes an elongated member, one or more bone anchor assemblies, and stabilizer members which are fitted within the elongated member. A bone bolt having cancellous threads on one end and machine threads at the opposing end and an enlarged portion between these sections is also provided. The bone bolt is anchored into a bone via the cancellous thread end. The machine threaded end passes through an opening of the elongated member and the stabilizer, and is engaged by a coupled washer and nut. The washer includes an undercut within its oblong aperture, and the nut includes a projecting sleeve. The sleeve is inserted into the washer aperture and expanded, so that the undercut retains the sleeve within the washer without impairing the rotatability or translatability of the nut and washer with respect to each other. When locked by the nut and washer atop the elongated member, the enlarged portion of the bolt is forced against an inside wall of the stabilizer, which is in turn locked against the elongated member. Accordingly, the elongated member is fixed with respect to the bone anchor at one of an infinite number of multi-axial angles.

Classifications:

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

A61B17/70 A61B17/80 A61B19/00 (Advanced/Invention);

A61B17/58 A61B19/00 (Advanced/Non-invention);

A61B17/70 (Core/Invention)

International (IPC 1-7): A61B017/70 A61B17/56 A61B17/58

A61B17/68 A61B17/70 A61B17/80

CPC: Y10S606/907 A61B2090/037 A61B17/7058 A61B17/7007

A61B17/701 A61B17/7011 A61B17/7035 A61B17/7037 A61B17/7041

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European: A61B17/70B1C4 A61B17/70B1E A61B17/70B1G

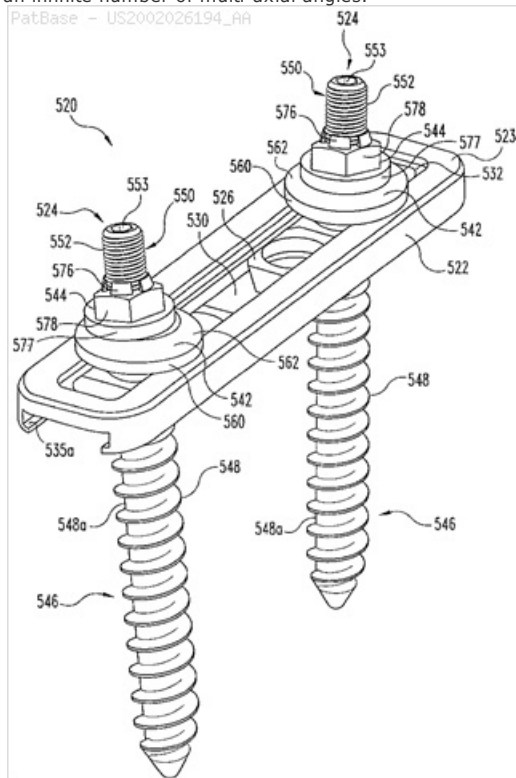
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US: 606/269 606/280 606/281 606/287 606/288 606/292 606/292P

606/304 606/317 606/319 606/331 606/60 606/61 606/69 606/71

606/71P 606/72 606/907



Family:

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Priority:

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Probable Assignee: WARSAW ORTHOPEDIC INC

Assignee(s): (std): BARKER B THOMAS ; SDGI HOLDINGS INC ; MORRISON MATTHEW M ; JOHNSON CHRIS E ; BEALE JEFFREY W ; YOUNG JOHN STEWART ; WARSAW ORTHOPEDIC INC

Assignee(s): BARKER B

Inventor(s): (std): BARKER B ; BARKER B THOMAS ; BARKER THOMAS ; BARKER THOMAS B ; JOHNSON CHRIS E ; BEALE JEFFREY W ; BEALE JEFFREY ; JOHNSON CHRIS ; BEALE W ; YOUNG JOHN STEWART ; MORRISON MATTHEW M ; YOUNG JOHN ; MORRISON MATTHEW ; MORRISON M ; YOUNG STEWART ; JOHNSON E

Inventor(s): JOHNSON CHRIS E GERMANTOWN ; YOUNG JOHN STEWART MEMPHIS ; MORRISON MATTHEW M CORDOVA ; MATTHEW M MORRISON ; JEFFREY W BEALE ; JOHN STEWART YOUNG ; CHRIS E JOHNSON ; BARKER B THOMAS MEMPHIS ; B THOMAS BARKER

Agent(s): SPRUSON AND FERGUSON; ASPEN PHARMA PTY LTD; FB RICE PTY LTD; FB RICE; SMART AND BIGGAR; DAUNCEY MARK PETER; KOBAYASHI YASUSHI; CHIBA AKIO; SAKUMA SHIGERU; MASUI CHUJI; KANDA FUJIHIRO; ONO SHINJIRO; HASHIMOTO MASAO; TAKEUCHI SHIGEO; SHAMOTO ICHIO; TOMITA HIROYUKI; UCHIDA HIROSHI; ITO TAKAMI; WOODARD EMHARDT MORIARTY MCNETT AND HENRY 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 CO 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

28) Family number: 23218419 (US5984925A)

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Title: Longitudinally adjustable bone plates and method for use thereof

Abstract: The invention relates to a bone plate having at least two and up to ten rimmed eyelets for receiving anchoring bone screws in a modified ball-and-socket joint. The eyelets are longitudinally aligned and joined to neighboring eyelets by curvilinear, bendable ribs extending between pairs of eyelets. The ribs are of a longer length than the distance between the external surfaces of adjacent rings which allows the longitudinal spacing of the rings to be increased or decreased by bending the ribs.

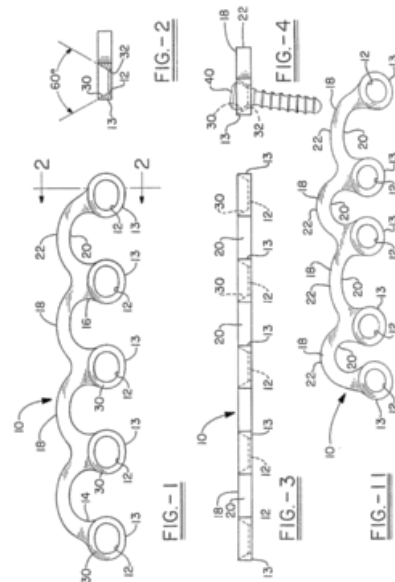
Classifications:

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

CPC: A61B17/8085

European: A61B17/80P

US: 606/280 606/284 606/298 606/60 606/69 606/70 606/71

**Family:**

Publication number	Publication date	Application number	Application date
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WO9905982 A1	19990211	WO1998US15885	19980729

Priority:

US19970902710 19970730 US19990426356 19991025

Probable Assignee: EBI LLC

Assignee(s): (std): CROSS MED PROD INC ; INTERPORE CROSS INT ; INTERPORE CROSS INTERNAT

Assignee(s): EBI LLC ; EBI L P ; LVB ACQUISITION INC ; ZIMMER BIOMET SPINE INC ; CROSS MEDICAL PRODUCTS INC ; INTERPORE CROSS INTERNATIONAL ; BANK OF AMERICA NA ; BANK OF AMERICA NA ADMINISTRATIVE AGENT FOR SECURE ; BANK OF AMERICA NA ADMINISTRATIVE AGENT FOR SECURED PARTIES AS ; BIOMET INC

Inventor(s): (std): APGAR MARK E ; HAYES KYLE

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

29) Family number: 66712420 (US2017238980A)

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Title: LATERAL SPINE PLATE WITH SET SCREW LOCKING OF BONE SCREWS

Abstract: A lateral spine implant has a plate, configured bone screws, and configured setscrews providing locking of bone screw movement. The plate has at least two identically configured bone screw bores, each one with a spherical seat at a bottom opening, and threads around the inner circumference of a top opening. Each setscrew has a cylindrical body with external threads that mate with inner threads of the bone screw bore in order to affix the setscrew to the plate. A threaded spherical pocket is provided in a bottom of the setscrew body which conjoins with the spherical bone screw head to secure the setscrew with the bone screw head, fixing bone screw orientation/angulation. The bone screw head has a formation or formations about at least a portion of its exterior circumference that cooperate with the threads of the spherical pocket of the plate in order to fix bone screw orientation/angulation.

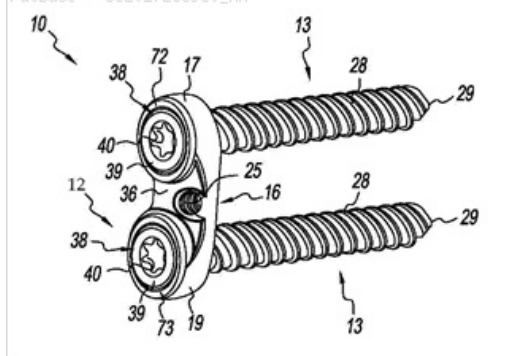
Classifications:

International (IPC 8-9): A61B17/70 A61B17/80

A61B17/86 (Advanced/Invention)

CPC: A61B17/8061 A61B17/8605 A61B17/8057 A61B17/7059 A61B17/8042

PatBase - US2017238980_AA

**Family:**

Publication number	Publication date	Application number	Application date
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WO17147095 A1	20170831	WO2017US18775	20170222

Priority:

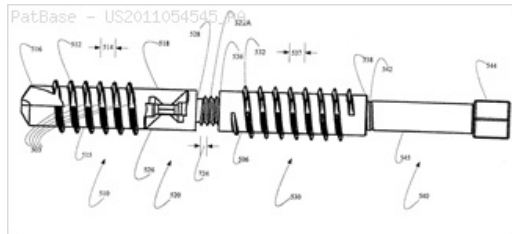
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Probable Assignee: LIFE SPINE INC**Assignee(s):** (std): LIFE SPINE INC**Inventor(s):** (std): LAUF GARRETT D ; MUELLER RICHARD M**Agent(s):** ANDERSON SCOTT D**Designated states:** AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DJ DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KH KM KN KP KR KW KZ LA LC 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**30) Family number: 48390467** (US2011054545A)

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Title: DISTAL INTERPHALANGEAL FUSION DEVICE AND METHOD OF USE

Abstract: Embodiments of the invention are directed to a distal interphalangeal ("DIP") fusion device for connecting a first bone of a patient to a second, adjacent bone of the patient. The device may include an anchor assembly and a compressor assembly. In another embodiment, a separate compressor base assembly is included. In yet another embodiment an access port assembly is included. The anchor assembly is rotationally coupled to one end of the compressor assembly, such that the compressor assembly may rotate about the anchor assembly within a semi-spherical zone (three degrees of rotational freedom) and translate axially (one degree of translational freedom). In an operative position, the anchor assembly is anchored in an intermediate phalanx of a digit of a patient, the compressor assembly is contained in a distal phalanx of the digit, and the distal phalanx is flexed relative to the intermediate phalanx to create a joint angle. The joint angle is then fixated for fusion by compressing the phalanges together in the flexed position by counter-rotation of the compressor assembly. An advantage of an embodiment of the invention is the screw threads may be matching which eliminates the need to pre-drill two different diameter pilot holes.

Classifications:**International (IPC 8-9):** A61B17/86 A61F2/38 (Advanced/Invention)**CPC:** A61B17/7225 A61B17/7291 A61B17/8685 A61B17/8875**European:** A61B17/72C2 A61B17/72J A61B17/86P K61B17/88S**US:** 606/104 606/301 606/301P 606/304 606/315 606/320 606/328 606/916**Family:**

Publication number	Publication date	Application number	Application date
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US8715326 BB	20140506	US20100869675	20100826
WO11025900 A1	20110303	WO2010US46870	20100826

Priority:

US20090238098P 20090828 US20100869675 20100826

Probable Assignee: COMPETITIVE GLOBAL MEDICAL LLC**Assignee(s):** (std): CHAMPAGNE LLOYD ; COMPETITIVE GLOBAL MEDICAL LLC ; CONTENTO OMAR ; KING BRUCE ; MARTIN DONALD J ; LANHAM MIKE**Inventor(s):** (std): CHAMPAGNE LLOYD ; CONTENTO OMAR ; KING BRUCE ; LANHAM MIKE ; MARTIN DONALD J**Agent(s):** HAYES SOLOWAY PC; JONES HUW R 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 TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW**31) Family number: 30589469** (US2004102775A)

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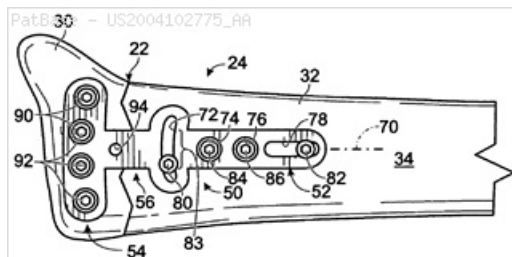
Title: BONE PLATES WITH SLOTS

Abstract: Bone plates having slots configured to permit positioning of the bone plates on bone, and methods of using the bone plates for bone fixation.

Classifications:**International (IPC 8-9):** A61B17/04 A61B17/14 A61B17/15 A61B17/16 A61B17/17 A61B17/56 A61B17/58 A61B17/60 A61B17/68 A61B17/70 A61B17/80 A61B17/86 A61B17/88 A61F2/00 A61F2/28 A61F2/30 A61F2/42 A61F2/46 A61F5/00 (Advanced/Invention);

A61B17/17 A61B17/56 A61B17/58 A61B17/80 A61B19/00 A61B6/00 A61B6/12 A61B90/00 A61F2/30 A61F2/46 (Advanced/Non-invention); A61B17/04 A61B17/14 A61B17/16 A61B17/56 A61B17/58 A61B17/68 A61B17/70 A61B17/88 A61F2/28 A61F2/30 A61F2/42 A61F5/00 (Core/Invention);

A61B17/58 A61B19/00 (Core/Non-invention)

International (IPC 1-7): A61B17/56 A61B17/58 A61B17/80 A61F A61F2/30 A61F6/00**CPC:** A61B17/58 A61B17/1739 A61B17/1662 A61F2/4261 A61F2/4606 A61B17/8066 A61B17/8009 A61B17/1604 A61B17/1686 A61F2002/30772 A61F2002/30774 A61F2002/3082 A61F2002/4269 A61B17/1728 A61B17/1735 A61B17/8004 A61B17/80 A61B17/8085 A61B17/8014 A61B17/15 A61B17/151 A61B17/88 A61B2090/061 A61B2090/067 A61B17/863 A61B17/8605 A61B2017/00004 A61B17/8685 A61B17/1684 A61B17/8023 A61B17/8042 A61B17/8645 A61B17/8861 A61B17/8033 A61B17/1778 A61B17/1782 A61B17/8061 A61B17/8052 A61B17/808 A61B6/12 A61B6/487 A61B17/8866 A61B17/8057 A61B17/809 A61B17/683 A61B2090/0801 A61B2090/3966 A61B17/1703**European:** A61B17/15 A61B17/15C A61B17/16C A61B17/16S14 A61B17/16S16 A61B17/17P A61B17/17R A61B17/17S

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WO07127994 A2	20071108	WO2007US67829	20070430
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Priority:

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US20160237482	20160815				

Probable Assignee: ACUMED LLC

Assignee(s): (std): CONNORS CAROL LYNN E ; FALKNER JAMES G ; FEDERSPIEL JOSHUA P ; GEISSLER WILLIAM B ; GILLARD JOEL ; HUEBNER RANDALL J ; HORST STEVEN P ; RYAN MATTHEW J ; KLEINMAN WILLIAM B ; VAN VLEET DAVID W ; JENSEN DAVID G ; HUEBNER RANDALL JOSEPH ; RITTER JAMES C ; VENTURA RUDOLPH A ; VLEET DAVID W VAN ; ZUBA JENNIFER R ; ACUMED LLC

Assignee(s): ACUMED LLC HILLSBORO ; JOEL GILLARD ; RANDALL JOSEPH HUEBNER ; STEVEN P HORST

Inventor(s): (std): CONNORS CAROL LYNN E ; FALKNER JAMES G ; FALKNER JAMES G JR ; FEDERSPIEL JOSHUA P ; GEISSLER WILLIAM B ; HORST STEVEN P ; HUEBNER RANDALL J ; HUEBNER RANDALL JOSEPH ; JENSEN DAVID G ; RANDALL J HUEBNER ; STEVEN P HORST ; VAN VLEET DAVID W ; VENTURA RUDOLPH A ; VLEET DAVID W VAN ; MOHR MARCUS ; KLIENMAN WILLIAM B ; GILLARD JOEL ; EHMKE LARRY W ; RYAN MATTHEW J ; RITTER JAMES C ; ZUBA JENNIFER R ; KLEINMAN WILLIAM B

Inventor(s): WILLIAM B KLIENMAN ; JOSHUA P FEDERSPIEL ; JAMES C RITTER ; CAROL LYNN E CONNORS ; WILLIAM B GEISSLER ; RANDALL JOSEPH HUEBNER ; RUDOLPH A VENTURA ; JOEL GILLARD ; JENNIFER R ZUBA ; JENSEN DAVID ; HUEBNER RANDALL J BEAVERTON ; HORST STEVEN P DAYTON ; HUEBNER RANDALL ; GEISSLER WILLIAM B BRANDON ; HORST STEVEN ; GEISSLER WILLIAM ; FALKNER JAMES GJR ; DAVID W VAN VLEET ; FALKNER JAMES

Agent(s): SPRUSON AND FERGUSON; PATENTANWALTSKANZLEI MEYER; TAYLOR KATE LAURA; HARRISON GODDARD FOOTE; KOLISCH HARTWELL PC; JAMES R ABNEY KOLISCH HARTWELL PC; KOLISCH HARTWELL P C; ABNEY JAMES R

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 TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

32) Family number: 59937499 (US2015209091A)

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Title: IMPLANT WITH SUSPENDED LOCKING HOLES

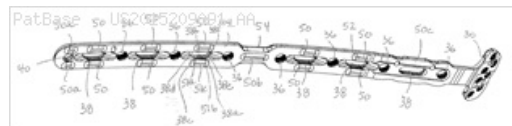
Abstract: A plate is provided with feet located laterally of adjacent compression screw holes and absent from about threaded locking holes so as to suspend the plate segment having the threaded locking holes from over the bone. This forces a minimum gap between the threaded holes and the bone, and allows the plate thereat to deflect under loads that can be practically delivered by the locking screws. By allowing the plate to deflect, the threads on the head of the locking screw can be aligned, or timed, with the threads of the threaded plate hole to reduce the required torque to insert the locking screw into the locking hole and the bone.

Classifications:

International (IPC 8-9): A61B17/80 (Advanced/Invention)

CPC: A61B17/8057 A61B17/8028 A61B17/8052

US: 606/289



Family:

Publication number	Publication date	Application number	Application date
US2015209091 AA	20150730	US20140166058	20140128
US9987061 BB	20180605	US20140166058	20140128

Priority:

US20140166058 20140128

Probable Assignee: BIOMET CV

Assignee(s): (std): BIOMET C V ; BIOMET CV

Inventor(s): (std): FRANCESE JOSE LUIS ; KORTENBACH JUERGEN A ; SIXTO JR ROBERT ; SUAREZ ANDREA

Inventor(s): SIXTO JR

Agent(s): SCHWEGMAN LUNDBERG AND WOESSNER PA

33) Family number: 3357508 (US4905679A)

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Title: BONE FRACTURE REDUCTION DEVICE AND METHOD OF INTERNAL FIXATION OF BONE FRACTURES

Abstract: A bone fracture reduction device for the internal fixation and immobilization of bone fragments. The device is comprised of at least two spaced bone affixation plate sections formed of bio-compatible metallic material and at least one leg section of like bio-compatible metallic material interconnecting each pair of the plate sections. Each plate section has at least one screw hole extending therethrough for receiving a bone screw to be driven into a bone fragment and each leg section is of relatively narrow width with respect to the width of the plate sections. The device is affixed via its plate sections to adjacent bone fragments with each leg section spanning a fracture line. Each leg section is deformable after affixation of its connected pair of plate sections to adjacent bone fragments whereby upon kinking deformation thereof the distance between each connected pair of plate sections is reduced and the adjacent bone fragments are compressed to close the fracture line between such plate sections and immobilize the fracture.

Classifications:

International (IPC 8-9): A61B17/80 (Advanced/Invention);

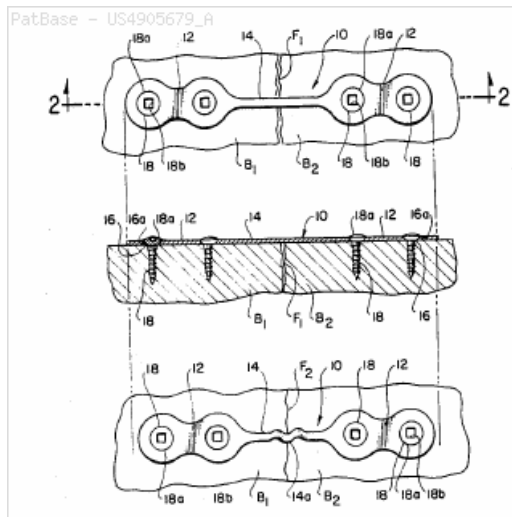
A61B17/68 (Core/Invention)

International (IPC 1-7): A61F5/04

CPC: Y10S227/902 A61B17/8085

European: A61B17/80P

US: 227/156 227/902 606/70

**Family:**

Publication number	Publication date	Application number	Application date
US4905679 A	19900306	US19880158686	19880222

Priority:

US19880158686 19880222

Probable Assignee: SOFAMOR DANEK PROPERTIES INC**Assignee(s):** (std): M P OPERATION INC**Assignee(s):** MP OPERATION ; MP OPERATION (A NEVADA CORP) ; MP OPERATION A NEVADA CORP ; SD ACQUISITION CORP ; SOFAMOR DANEK PROPERTIES INC ; TI MESH INC**Inventor(s):** (std): MORGAN FRANK H**34) Family number: 28195513 (US2002058940A)**

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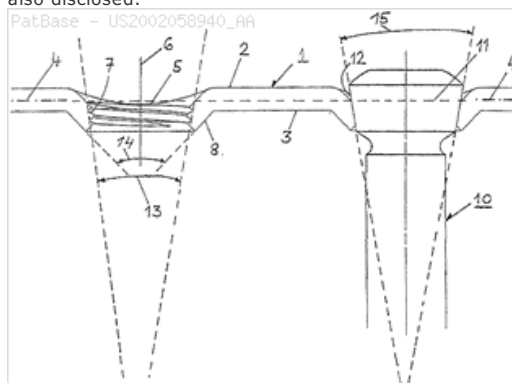
Title: BONE PLATE

Abstract: A bone plate includes an upper surface, a bone-contacting surface, and a plurality of holes extending through the upper and bone-contacting surfaces for receiving bone screws. At least one of the holes includes a protrusion disposed on the bone-contacting surface and at least partially surrounding the hole. The bone plate may define a nominal plate thickness in regions between holes, and the protrusion may define an increased plate thickness that is greater than the nominal plate thickness. A bone plate system including a plurality of bone screws is also disclosed.

Classifications:**International (ipc 8-9):** A61B A61B17/58 A61B17/68 A61B17/80 A61F2/00 (Advanced/Invention);

A61B17/68 (Advanced/Non-invention);

A61B17/58 A61B17/68 A61F2/00 (Core/Invention)

International (ipc 1-7): A61B A61B17/58 A61B17/68 A61B17/80 A61F2/00**CPC:** A61B17/80 A61B17/8057 A61B17/68**European:** A61B17/80 K61B17/80F2**US:** 606/286 606/286S 606/291 606/291P 606/69**Family:**

Publication number	Publication date	Application number	Application date
AR032334 AA	20031105	AR2001P102416	20010522
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AU2000252043 AA	20020108	AU20000252043	20000626
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AU200052043 A1	20020108	AU20000052043	20000626
AU200052043 A5	20020108	AU20000052043	20000626
BRPI0017270 A	20030527	BR2000PI17270	20000626
CA2415634 AA	20021223	CA20002415634	20000626
CA2415634 C	20080812	CA20002415634	20000626
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DK1294298 T3	20050117	DK20000936585T	20000626
EP1294298 A1	20030326	EP20000936585	20000626
EP1294298 B1	20041110	EP20000936585	20000626
ES2226852 T3	20050401	ES20000936585T	20000626
HK1052450 A1	20050311	HK20030104191	20030612
HK1052450 B	20050311	HK20030104191	20030612

JP2004500956 T2	20040115	JP20020504913T	20000626
JP4885405 B2	20120229	JP20020504913T	20000626
KR100773966 B1	20071108	KR20027017511	20000626
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MXPA02012300 A1	20030425	MX2002PA12300	20000626
PT1294298 T	20050429	PT20000936585T	20000626
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TW534806 B	20030601	TW20010110384	20010501
US2002058940 AA	20020516	US20010994049	20011127
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WO0200127 A1	20020103	WO2000C00346	20000626

Priority:

EP20000936585 20000626 WO2000C00346 20000626 KR20027017511 20021223
WO2000C00346 20021223

Probable Assignee: SYNTHES USA LLC

Assignee(s): (std): FERUS ROBERT ; FRIGG ROBERT ; SYNTHES AG ; SYNTHES USA ; SYNTHES AG CHUR ; SYNTHES ; SYNTHES HOLDING AG

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

Inventor(s): (std): FRIGG ROBERT ; FERUS ROBERT

Inventor(s): ROBERT FRIGG ; ROBERT FERUS

Agent(s): PHILLIPS ORMONDE FITZPATRICK; OSLER HOSKIN AND HARCOURT LLP; ERNESTO CAVELIER; WENPING AND CO 17 F TUNG WAI COMMERCIAL BUILDING 111 GLOUCESTER ROAD HONG

Designated states: AE AL AM AT AU AZ BA BB BE BF BG BJ BR BY CA CF CG CH CI CM CN CR CU CY CZ DE DK DM 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 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: 64894524 (USD779065S)

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Title: ANTERIOR CERVICAL BONE PLATE

Abstract: [Source: Claim 1] The ornamental design for an anterior cervical bone plate, substantially as shown and described.

Classifications:

US: D24/155

Locarno class: 24/02



Family:

Publication number	Publication date	Application number	Application date
USD779065 S1	20170214	US20140504658F	20141008
USD798455 S1	20170926	US20170591805F	20170124

Priority:

US20140504658F 20141008 US20170591805F 20170124

Probable Assignee: NUVASIVE INC

Assignee(s): (std): NUVASIVE INC

Assignee(s): BANK OF AMERICA NA ADMINISTRATIVE AGENT AS

Inventor(s): (std): BROTMAN MICHAEL ; SAWIN PAUL D ; WOLF ANDREW

Agent(s): JEREMY A; BRADLEY ARANT BOULT CUMMINGS LLP; BRADLEY ARANT BOULT CUMMINGS; JENNIFER

36) Family number: 58690528 (US2015073486A)

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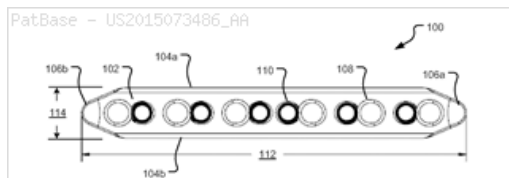
Title: BONE PLATE

Abstract: Bones fracture in any number of various ways and, in order to properly reduce a fracture, it may be necessary to place compression screws in any number of combinations along a bone plate to bring the various bone fragments together. A bone plate is provided with an optimal number and combination of threaded holes and non-threaded holes. In embodiments, the bone plate comprises one or more "hole pairs" in which a non-threaded hole and a threaded hole are placed adjacent to one another. The use of hole pairs enables a surgeon to place a compression screw and a locking screw in close proximity, facilitating both bone reduction and bone plate stabilization in a proximate location on the bone plate. In embodiments, the bone plate has an optimal thickness that promotes structural integrity while maximizing the number and combination of holes and reducing the profile of seated screws.

Classifications:

International (IPC 8-9): A61B17/58 A61B17/80 A61B17/86 A61B17/88 (Advanced/Invention); A61B17/86 (Advanced/Non-invention)

CPC: A61B17/8014 A61B17/8057 A61B17/8085 A61B17/8605
US: 1/1 606/281 606/282



Family:

Publication number	Publication date	Application number	Application date
EP3052035 A1	20160810	EP20140843005	20140908
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US9468479 BB	20161018	US20130019827	20130906
WO15035307 A1	20150312	WO2014US54568	20140908

Priority:

US20130019827 20130906 WO2014US54568 20140908

Probable Assignee: CARDINAL HEALTH 247 INC

Assignee(s): (std): CARDINAL HEALTH 247 INC ; EMERGE MEDICAL INC

Inventor(s): (std): MAROTTA JOHN ; TRAFKA VICTORIA

Agent(s): PROCK THOMAS; ADNAN H; KOWALCHYK KATHERINE M

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

37) Family number: 28847566 (US2003139746A)

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Title: BONE STAPLE AND METHODS FOR CORRECTING BONE DEFICIENCIES BY CONTROLLABLY SUPPRESSING AND/OR INDUCING THE GROWTH OF THE EPIPHYSEAL PLATE

Abstract: A bone staple for repairing bones and/or correcting bone deficiencies by controlling the growth of the epiphyseal plate, the staple comprising a body comprising a cross bar and at least two legs extending from the cross bar, the legs being designed for introducing into the bone. The body is made of a shape memory alloy and the legs normally diverge from each other defining spring legs tending to move apart from each other under a compression force, whereby a lengthening of the epiphyseal plate is induced. Preferably, the cross bar extends beyond the connection to the legs and forms stop means for abutting the bone and keep the cross bar spaced apart from the epiphyseal plate. Additionally, each leg includes an helical thread designed for anchoring into the bone, for firmly retaining the staple into the bone and for unscrewing the legs once the stable should be removed.

Classifications:

International (IPC 8-9): A61B17/06 A61B17/064 A61B17/58

A61B17/70 (Advanced/Invention);

A61B17/00 (Advanced/Non-invention);

A61B17/06 A61B17/064 A61B17/58 A61B17/70 (Core/Invention);

A61B17/00 (Core/Non-invention)

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

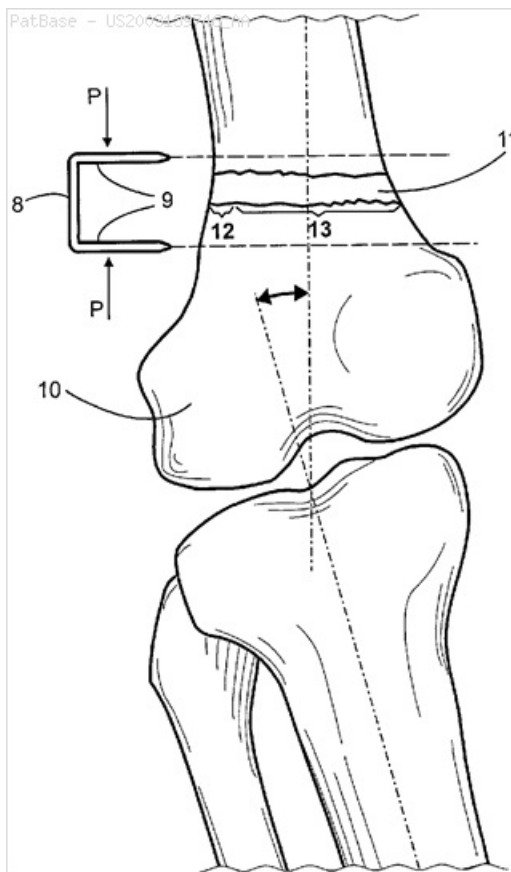
CPC: A61B17/0642 A61B17/7011 A61B17/7032 A61B17/7059

A61B2017/00867 A61B2017/0648

European: A61B17/064B A61B17/70B1G A61B17/70B2 A61B17/70K

US: 606/248 606/248P 606/279 606/279S 606/301 606/301S

606/331 606/331S 606/72 606/75 606/75S 606/911 606/911S



Family:

Publication number	Publication date	Application number	Application date
AR038217 AA	20050105	AR2003P100190	20030122
DE602007034296 D1	20140213	DE200760034296T	20070322
EP1836972 A1	20070926	EP20070251234	20070322
EP1836972 B1	20131218	EP20070251234	20070322
US2003139746 AA	20030724	US20020051156	20020122
US2005021035 AA	20050127	US20040924900	20040825
US2006167459 AA	20060727	US20060385863	20060322
US6966911 BB	20051122	US20020051156	20020122
US7618441 BB	20091117	US20060385863	20060322

Priority:

US20020051156 20020122 US20040924900 20040825 US20060385863 20060322

Probable Assignee: GROISO JORGE ABEL**Assignee(s):** (std): GROISO JORGE A ; GROISO JORGE ABEL**Inventor(s):** (std): GROISO JORGE A ; GROISO JORGE ABEL**Inventor(s):** GROISO JORGE**Agent(s):** LEONHARD AND PARTNER PATENTANWALTE; CREASE DEVANAND JOHN; MICHAEL D BEDNAREK SHAWPITTMAN; MICHAEL BEDNAREK, PILLSBURY WINTHROP SHAW PITTMAN LLP; MICHAEL BEDNAREK PILLSBURY WINTHROP SHAW PITTMAN LLP; PILLSBURY WINTHROP SHAW PITTMAN LLP; MICHAEL**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 PL PT RO SE SI SK TR YU**38) Family number: 15806574 (US2003093082A)**

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Title: BONE SCREW RETAINING SYSTEM**Abstract:** An implant, particularly for the spinal column, comprises a plate having openings, bone-anchoring members capable of being accommodated in the openings and at least one split-ring capable of holding the members in the orifices. The split-ring can come into direct contact with the anchoring member or members to hold the member or members in the orifices.**Classifications:****International (IPC 8-9):** A61B17/58 A61B17/68 A61B17/70

A61B17/80 A61B17/86 A61B17/88 A61B17/92 A61F2/00

A61F2/44 (Advanced/Invention);

A61B17/58 A61B17/70 A61B17/86 A61F2/00 A61F2/30

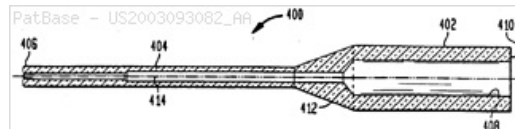
A61F2/44 (Advanced/Non-invention);

A61B17/68 A61B17/88 (Core/Invention);

A61B17/70 A61F2/00 (Core/Non-invention)

International (IPC 1-7): A61B17/56 A61B17/58 A61B17/68 A61B17/70 A61B17/80 A61F2/44**CPC:** A61B17/7059 A61B17/8042 A61B17/8635 A61B17/88 A61B17/8875 A61B17/92 A61F2002/30497 A61F2220/0025

A61B17/8047

European: A61B17/80D4 A61B17/88 A61B17/88S A61B17/92 K61B17/70K K61B17/86B4 K61F2/00T33R1 K61F2/30A3T33R1 K61F220/00T**US:** 1/1 606/104 606/104P 606/286 606/289 606/290 606/290P 606/293 606/69 606/70 606/70P 606/71 606/76 606/86.00B 606/86B**Family:**

Publication number	Publication date	Application number	Application date
AU200154037 A1	20020103	AU20010054037	20010625
AU200154037 A5	20020103	AU20010054037	20010625
AU757023 B2	20030130	AU20010054037	20010625
CA2351231 AA	20011226	CA20012351231	20010626
CA2351231 C	20060404	CA20012351231	20010626
DE60106525 D1	20041125	DE20016006525	20010626
DE60106525 D1	20041125	DE20016006525T	20010626
DE60106525 T2	20051013	DE20016006525T	20010626
EP1169971 A2	20020109	EP20010401688	20010626
EP1169971 A3	20020717	EP20010401688	20010626
EP1169971 B1	20041020	EP20010401688	20010626
FR2810532 A1	20011228	FR20000008144	20000626
FR2810532 B1	20030530	FR20000008144	20000626
JP2002143176 A2	20020521	JP20010192408	20010626
JP2011194267 A2	20111006	JP20110130631	20110610
JP2011194268 A2	20111006	JP20110130632	20110610
JP4792176 B2	20111012	JP20010192408	20010626
JP5378455 B2	20131225	JP20110130632	20110610
JP5645756 B2	20141224	JP20110130631	20110610
US2003093082 AA	20030515	US20020331212	20021230
US2005149027 AA	20050707	US20050060171	20050217
US2011152944 AA	20110623	US20110985733	20110106
US2013066379 AA	20130314	US20120623269	20120920
US2014243909 AA	20140828	US20140272922	20140508
US6602255 BA	20030805	US20000665530	20000919
US7887547 BB	20110215	US20050060171	20050217
US8287550 BB	20121016	US20110985733	20110106
US8734496 BB	20140527	US20120623269	20120920
US9186189 BB	20151117	US20140272922	20140508

Priority:

FR20000008144 20000626	US20000665530 20000919	CA20012351231 20010626
JP20010192408 20010626	US20020331212 20021230	US20050060171 20050217
US20110985733 20110106	US20120623269 20120920	US20140272922 20140508

Probable Assignee: STRYKER SPINE**Assignee(s):** (std): CAMPBELL CHRISTOPHER M ; HARRINGTON TODD ; STRYKER SPINE SA ; STRYKER SPINE ; STRYKER SPINE S A ; STRYKER SPINE CESTAS SA ; STRYKER SPINE SA CESTAS**Assignee(s):** STRYKER SPINE A OF FRANCE CORP SA ; STRYKER SPINE ZI DE MARTICOTCESTAS ; STRYKER SPINE ZI DE MARTICOTF ; STRYKER SPINE A CORP SA ; STRYKER EUROPEAN HOLDINGS I LLC ; STRYKER EUROPEAN HOLDINGS VI LLC**Inventor(s):** (std): BACCELLI CHRISTIAN ; CAMPBELL CHRISTOPHER M ; CHRISTOPHER M CAMPBELL ; HARRINGTON TODD ; MORDELLES VERONIQUE ; TODD HARRINGTON**Inventor(s):** VERONIQUE MORDELLES ; CHRISTIAN BACCELLI ; CAMPBELL CHRISTOPHER**Agent(s):** SPRUSON AND FERGUSON; ASPEN PHARMA PTY LTD; MOFFAT AND CO; CABINET REGIMBEAU; LERNER DAVID LITTENBERG , KRUMHOLZ AND MENTLIK; LERNER DAVID LITTENBERG KRUMHOLZ AND

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

39) Family number: 34705665 (US2007173843A)

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Title: DRUG DELIVERING BONE PLATE AND METHOD AND TARGETING DEVICE FOR USE THEREWITH

Abstract: An implantable bone plate for use with a plurality of attachment screws for treating a fracture of a bone in a mammalian body is provided. The implantable bone plate includes an elongate body extending along a longitudinal axis and having substantially parallel outer and inner surfaces. A plurality of holes is spaced longitudinally along the elongate body and extended between the first and second surfaces. The plurality of holes is adapted to receive the plurality of attachment screws. The inner surface of the elongate body is provided with at least one recess for receiving an eluting material that treats the mammalian body after implantation of the elongate body in the mammalian body. Additionally, the elongate body is provided with at least one access hole extending through the outer surface to the at least one recess for permitting introduction of the eluting material into the at least one recess.

Classifications:

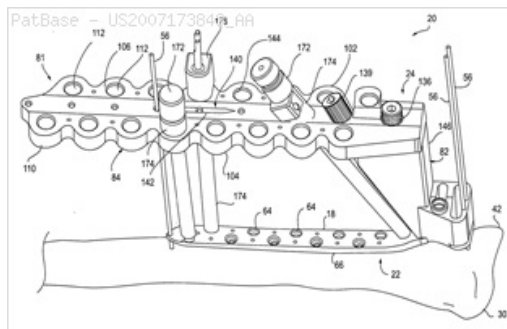
International (IPC 8-9): A61B17/00 A61B17/17 A61B17/56
A61B17/58 A61B17/64 A61B17/80 A61F2/30 (Advanced/Invention);
A61B17/56 A61B17/58 A61B17/60 A61F2/30 (Core/Invention)

International (IPC 1-7): A61B17/56

CPC: A61B17/80 A61B17/00234 A61B17/1728

European: A61B17/80 K61B17/00E K61B17/17P

US: 606/280 606/281 606/281S 606/69 606/916 606/916P

**Family:**

Publication number	Publication date	Application number	Application date
AU2006330461 AA	20070705	AU20060330461	20061222
CA2633659 AA	20080617	CA20062633659	20061222
CA2633659 C	20140819	CA20062633659	20061222
CN101365393 A	20090211	CN200680052572	20061222
DE602006047503 D1	20160121	DE200660047503T	20061222
EP1962704 A2	20080903	EP20060840346	20061222
EP1962704 A4	20110511	EP20060840346	20061222
EP1962704 B1	20151216	EP20060840346	20061222
IN03128CN2008 A	20090306	IN2008CN03128	20080623
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KR20080087125 A	20080930	KR20087017795	20061222
US2007173843 AA	20070726	US20060644433	20061221
US8100952 BB	20120124	US20060644433	20061221
WO07076490 A2	20070705	WO2006US62577	20061222
WO07076490 A3	20071129	WO2006US62577	20061222

Priority:

US20050753182P 20051222 US20060644433 20061221 EP20060840346 20061222
WO2006US62577 20061222

Probable Assignee: ANTHEM ORTHOPAEDICS LLC

Assignee(s): (std): ANTHEM ORTHOPAEDICS LLC ; MATITYAHU AMIR M

Assignee(s): ANTHEM ORTHOPAEDICS LLC LOS ALTOS ; ANTHEM ORTHOPAEDICS LLC 191 PINE LANELOS
ALTOSCA94022US

Inventor(s): (std): MATITYAHU AMIR M

Inventor(s): MATITYAHU AMIR M LOS ALTOS ; MATITYAHU AMIR MUS ; AMIR M MATITYAHU ; MATITYAHU AMIR

Agent(s): DAVIES COLLISON CAVE; DAVIES COLLISON CAVE PTY LTD; SMART AND BIGGAR; BEETZ AND
PARTNER MBB PATENTANWALTE; DRAPER MARTYN JOHN; BOULT WADE TENNANT; DORSEY AND
WHITNEY 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 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

40) Family number: 33093670 (US2006142767A)

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Title: ORTHOPEDIC DEVICE AND METHOD FOR CORRECTING ANGULAR BONE DEFORMITY

Abstract: An orthopedic device and method for correcting angular deformation of a bone structure having a growth plate. The device includes first and second hinge members connected together at a hinge joint. The device is adapted for mounting the orthopedic device to the bone structure with the pivot joint positioned over the growth plate. Alignment of the pivot joint with the growth plate promotes asymmetric growth of the growth plate to thereby correct the angular deformation.

Classifications:

International (IPC 8-9): A61B17/30 A61B17/56 A61B17/58

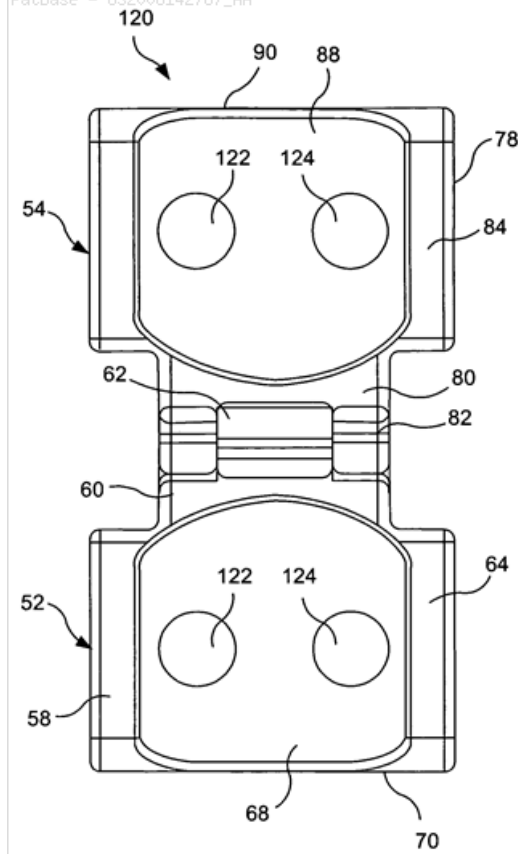
A61B17/80 A61B17/88 A61F2/30 (Advanced/Invention);

A61B17/68 A61B17/88 A61F2/30 (Core/Invention)

CPC: A61B17/80 A61B17/8004

European: A61B17/80 K61B17/80A

US: 606/280 606/281 606/281S 606/286 606/286S 606/69 606/70
606/70P 606/71 606/75

**Family:**

Publication number	Publication date	Application number	Application date
US2006142767 AA	20060629	US20040024208	20041227
US2010004652 AA	20100107	US20090583515	20090821
US8029507 BB	20111004	US20090583515	20090821

Priority:

US20040024208 20041227 US20090583515 20090821

Probable Assignee: PEGA MEDICAL INC

Assignee(s): (std): GREEN DANIEL W ; MOLINO JOSEPH L ; PEGA MEDICAL INC

Assignee(s): NATIONAL BANK OF CANADA

Inventor(s): (std): GREEN DANIEL W ; MOLINO JOSEPH L

Inventor(s): GREEN DANIEL ; MOLINO JOSEPH

Agent(s): SILBER AND FRIDMAN; LAWRENCE G FRIDMAN ESQ SILBER AND FRIDMAN ESQS; LAWRENCE G

41) Family number: 62912678 (EP3045130B1)

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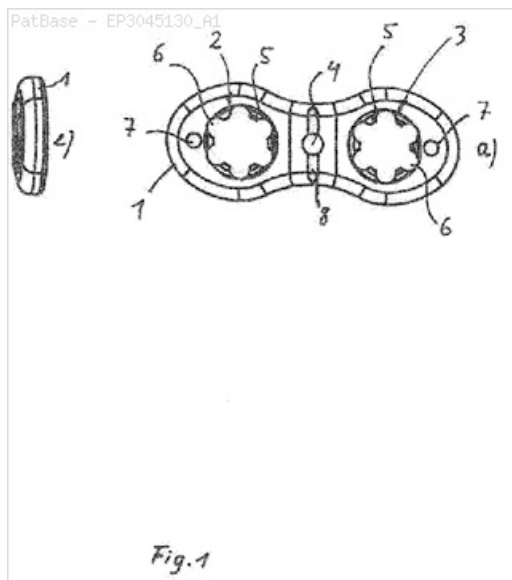
Title: IMPLANT FOR TEMPORARY EPIPHYSIODESIS OR HEMIEPIPHYSIODESIS IMPLANT D'EPIPHYSIODESE OU HEMIEPIPHYSIODESE TEMPORAIRE </TI_FR

Abstract: Source: EP3045130A1 [DE] Die Erfindung betrifft ein Implantat zur temporaeren Epiphyseodese oder Hemiepiphyseodese, bestehend aus einem plattenfoermigen, langgestreckten Koerper mit mindestens zwei oeffnungen (2, 3) zum Aufnehmen von Knochenschrauben, wobei der plattenfoermige Koerper im Bereich zwischen den oeffnungen einen Schwaechungsabschnitt sowie einen Durchbruch (4) aufweist, welcher operativ auf der Epiphysenfuge liegt. Erfindungsgemaess sind die oeffnungen mit einem mindestens eingaengigen Gewinde versehen, wobei das Gewinde derart segmentiert ist, dass innumfangsseitig zwischen Gewindeabschnitten (5) gewindefreie Abschnitte (6) verbleiben. Weiterhin ist an den Enden des plattenfoermigen Koerpers jeweils mindestens eine Bohrung (7) zur Aufnahme eines Kirschner-Drahts vorgesehen. Der Schwaechungsabschnitt ist erfindungsgemaess als Nut (8) ausgebildet, welche auf der Plattenoberseite den Durchbruch schneidet und im Wesentlichen senkrecht zur Plattenlaengsachse verlaeuft. Die Plattenunterseite besitzt im Bereich zwischen den oeffnungen mit segmentiertem Gewinde mindestens eine Unterschneidung (11). **Machine translation:** The invention relates to an implant for temporary epiphyseodesis or hemiepiphyseodesis consisting of a plattenfoermigen, elongated body with at least two openings (2, 3) for receiving bone screws, said plattenfoermige body in the area between the openings a Schwaechungsabschnitt and a breakthrough (4), which operationally lies on the growth plate. Erfindungsgemaess the apertures are provided with a minimum single start thread, the thread is segmented such that its inner circumference between threaded sections (5) non-threaded portions (6) remain. Further, each at least one bore (7) for receiving a Kirschner-wire is provided at the ends of plattenfoermigen body. The Schwaechungsabschnitt is erfindungsgemaess form of a groove (8) which intersects the opening on the plate surface and is substantially perpendicular to Plattenlaengsachse. The underside of the plate has in the region between the openings with segmented threads at least one undercut (11).

Classifications:

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

CPC: A61B17/8085 A61B17/8057 A61B17/809 A61B17/0642 A61B17/8061



Family:

Publication number	Publication date	Application number	Application date
DE102015001296 A1	20160714	DE201510001296	20150202
DE102015001296 B4	20180530	DE201510001296	20150202
DE502016002041 D1	20181025	DE201650002041T	20160112
EP3045130 A1	20160720	EP20160150902	20160112
EP3045130 B1	20180926	EP20160150902	20160112

Priority:

DE201510000472 20150114 DE201510001296 20150202 EP20160150902 20160112

Probable Assignee: KOENIGSEE IMPLANTATE GMBH

Assignee(s): (std): KOENIGSEE IMPLANTATE GMBH

Inventor(s): (std): TOLKSDORF JOACHIM ; ORSCHLER FRANK ; DOEDERLEIN LEONHARD ; DEILE STEVEN

Agent(s): MEISSNER BOLTE PATENTANWAELTE RECHTSANWAELTE PARTNERSCHAFT MBB; MEISSNER BOLTE PARTNERSCHAFT MBB

Designated states: AL AT BA BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC ME MK MT NL NO PL PT RO RS SE SI SK SM TR

42) Family number: 64888698 (US2018221070A)

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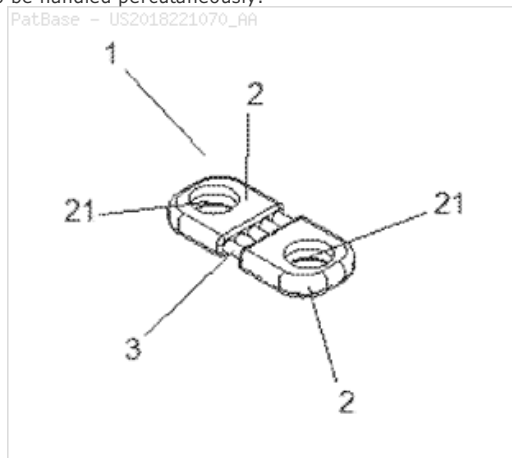
Title: BONE FIXATING DEVICE FOR USE IN GUIDED GROWTH AND AS STRESS BAND

Abstract: Provided is a design concept for a bone fixating device that can be used both for closing the physys and also for fixing fractures by means of a tension band, wherein the device is based on the concept of two fixed ends joined by flexible wire, which facilitates both its installations and use, which also allows to perform a minimally invasive surgery due to the reduced size of the implant, whose profile must be as low as possible in order to avoid tissue damage during surgery. Thus, the design of the device allows the fastening screws to be located as far as possible from the physys, i.e. in the safe zone, reducing ischemia in the physys and, also, allowing for the surgery to be handled percutaneously.

Classifications:

International (IPC 8-9): A61B17/78 A61B17/80 (Advanced/Invention)

CPC: A61B2017/564 A61B17/8057 A61B17/1728 A61B17/808 A61B17/8004 A61B17/8085 A61B17/7059 A61B17/842



Family:

Publication number	Publication date	Application number	Application date
CO20180001319 A2	20180220	CO20180001319	20180208
EP3332721 A1	20180613	EP20150900302	20150806
US2018221070 AA	20180809	US20150750337	20150806
US2018360506 AA	20181220	US20180109877	20180823
WO17021762 A1	20170209	WO2015155982	20150806

Priority:

Probable Assignee: INDUSTRIAS MEDICAS SAMPEDRO SAS**Assignee(s):** (std): IND MEDICAS SAMPEDRO S A S**Assignee(s):** INDUSTRIAS MEDICAS SAMPEDRO S A S ; INDUSTRIAS MEDICAS SAMPEDRO SAS**Inventor(s):** (std): TORO RESTREPO MAURICIO**Inventor(s):** MAURICIO TORO RESTREPO**Agent(s):** ANDRES MARQUEZ ACOSTA; MARTIN SANTOS VICTORIA SOFIA; MARQUEZ ACOSTA ANDRES**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**43) Family number: 59063699** (US2015112341A)

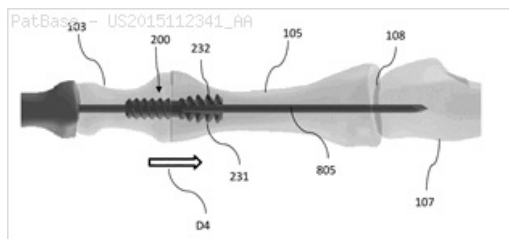
© PatBase

Title: DEVICES FOR BONE FIXATION USING AN INTRAMEDULLARY FIXATION IMPLANT**Abstract:** The invention comprises an intramedullary fixation implant and a method for joining bones and translating compression between the bones for treating various digital deformities. The intramedullary fixation implant comprises a first fixation portion and a second fixation portion connected to the first fixation portion, wherein the second fixation portion comprises a first projection and a second projection separated by a slot, and wherein the first projection and the second projection comprise a plurality of barbs shaped and arranged along the first and second projections such that they cooperatively form a thread along the second fixation portion.**Classifications:****International (IPC 8-9):** A61B17/16 A61B17/56 A61B17/58

A61B17/72 A61B17/88 A61F2/30 (Advanced/Invention)

CPC: A61B17/7266 A61B17/1686 A61B17/1682 A61B17/164

A61B17/7291 A61B17/8875

US: 1/1 606/62 606/63**Family:**

Publication number	Publication date	Application number	Application date
AU2014340051 AA	20160609	AU20140340051	20141023
EP3060145 A2	20160831	EP20140856195	20141023
EP3060145 A4	20171115	EP20140856195	20141023
IN201627017614 A	20160819	IN201627017614	20160523
US2015112341 AA	20150423	US20140521879	20141023
US2015112342 AA	20150423	US20140521913	20141023
US9282977 BB	20160315	US20140521913	20141023
WO15061556 A2	20150430	WO2014US61948	20141023
WO15061556 A3	20150618	WO2014US61948	20141023

Priority:

US20130894564P 20131023

US20140521879 20141023

US20140521913 20141023

WO2014US61948 20141023

Probable Assignee: EXTREMITY MEDICAL LLC**Assignee(s):** (std): EXTREMITY MEDICAL LLC**Inventor(s):** (std): GANNOE JAMES ; PENZIMER RAYMOND**Agent(s):** PHILLIPS ORMONDE FITZPATRICK; BOULT WADE TENNANT; KELLEY DRYE AND WARREN LLP; MOSOLYGO HANNA BONDARIK**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**44) Family number: 43945710** (US2001034521A)

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Title: METHOD AND SYSTEM FOR SPINAL FIXATION**Abstract:** A method and a system for a spinal fixation incorporate a plurality of polydirectional fixation screws and a plurality of linkages. The polydirectional fixation screws include an upper member and a lower member. The upper member is attached to the linkage. The upper member includes a first hemispherical portion. The lower member engages the bone and includes a second hemispherical portion which cooperates with the first hemispherical portion to define a sphere. The second hemispherical portion is coupled to the first hemispherical portion for relative pivotal movement about an axis. Relative movement between the first and second hemispherical portions readily permits sagittal plane adjustments. The polydirectional fixation screw further includes a biasing member for biasing the first member away from the second member in a direction substantially parallel to the axis. The linkages are provided with various vertical offsets to readily permit coronal plane adjustment.**Classifications:****International (IPC 8-9):** A61B17/58 A61B17/70 A61B17/86

A61B17/88 G09B7/02 (Advanced/Invention);

A61B19/00 (Advanced/Non-invention);

A61B17/58 A61B17/68 A61B17/70 A61B17/88

G09B7/00 (Core/Invention);

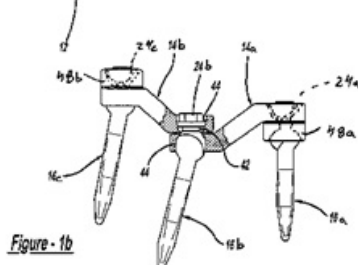
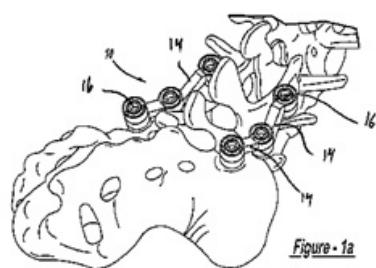
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International (IPC 1-7): A61B17/58 A61B17/70 A61B17/86**CPC:** A61B2090/061 A61B2090/068 A61B17/7011 A61B17/7007

A61B17/701 A61B17/7037 A61B17/7038 A61B17/704 A61B17/7041
A61B17/8605 G09B7/02
European: A61B17/70B1C4 A61B17/70B1E A61B17/70B1G
A61B17/70B5B A61B17/70B6 A61B17/86A G09B7/02 K61B17/70B5D
K61B17/70B5F K61B19/46B K61B19/46J2
US: 606/261 606/261P 606/267 606/267S 606/278 606/278S
606/279 606/279S 606/308 606/308S 606/60 606/61 606/73

PatBase - US2001034521_AA

Patent Application Publication Oct. 25, 2001 Sheet 1 of 11 US 2001/0034521 A1



Family:

Publication number	Publication date	Application number	Application date
AU2001272071 AA	20010827	AU20010272071	20010215
AU200172071 A1	20010827	AU20010072071	20010215
AU200172071 A5	20010827	AU20010072071	20010215
EP1257218 A1	20021120	EP20010953009	20010215
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JP2003522589 T2	20030729	JP20010559370T	20010215
JP4233789 B2	20090304	JP20010559370T	20010215
US2001034521 AA	20011025	US20010782713	20010213
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WO0160271 A1	20010823	WO2001US04972	20010215

Priority:

US20000182830P 20000216 US20000223061P 20000804 US20010782713 20010213
WO2001US04972 20010215

Probable Assignee: EBI LLC

Assignee(s): (std): BAILEY KIRK J ; ELECTRO BIOLOGY INC ; EBI LP ; DICKERSON RICHARD P ; NOBLITT NILES L ; SHAH GRETCHEN DOUGHERTY

Assignee(s): BIOMET INC ; LVB ACQUISITION INC ; EBI LLC ; EBI L P ; BANK OF AMERICA NA ; BANK OF AMERICA NA ADMINISTRATIVE AGENT FOR SECURE ; BANK OF AMERICA NA ADMINISTRATIVE AGENT FOR SECURED PARTIES AS

Inventor(s): (std): NOBLITT NILES L ; SHAH GRETCHEN DOUGHERTY ; DICKERSON RICHARD P ; BAILEY KIRK J

Inventor(s): RICHARD P DICKERSON ; NILES L NOBLITT ; KIRK J BAILEY ; GRETCHEN DOUGHERTY SHAH

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

45) Family number: 44985718 (US2010121382A)

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Title: VERTICAL INLINE PLATE

Abstract: A spinal plate having an upper surface and a lower surface, the lower surface adapted to contact bone. A plurality of holes extend from the upper surface to the lower surface through the plate which is configured and adapted to receive bone fasteners for fixing the spinal plate to bone. At least one set screw receiving hole adjacent from each one of the plurality of holes, the set screw receiving hole configured to adapt with a set screw. The lower surface of the spinal plate comprises a ridge that protrudes from the underside of the plate and encloses the plurality of holes spaced inward from the perimeter of the spinal plate.

Classifications:

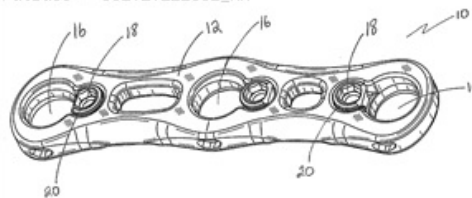
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A61B17/56 A61B17/80 (Advanced/Non-invention);
A61B17/68 A61B17/70 (Core/Invention)

CPC: A61B17/7059 A61B17/809 A61B2017/564 A61B17/8057
A61B17/8042

European: A61B17/70K A61B17/80S K61B17/80D4

US: 1/1 606/264 606/264P 606/279 606/280 606/286 606/289
606/295 606/70 606/70S

PatBase - US2010121382_AA



Family:

Publication number	Publication date	Application number	Application date
US2010121382 AA	20100513	US20090614067	20091106
US2014257406 AA	20140911	US20140286680	20140523
US2015182262 AA	20150702	US20150643299	20150310
US2015320453 AA	20151112	US20150802013	20150717
US8795340 BB	20140805	US20090614067	20091106
US9005256 BB	20150414	US20140286680	20140523
US9113965 BB	20150825	US20150643299	20150310

Priority:

US20080112442P 20081107 US20090614067 20091106 US20140286680 20140523
US20150643299 20150310 US20150802013 20150717

Probable Assignee: GLOBUS MEDICAL INC

Assignee(s): (std): GLOBUS MEDICAL INC ; WEIMAN MARK

Inventor(s): (std): WEIMAN MARK

Agent(s): GLOBUS MEDICAL INC ATTN BRIAN MALM

46) Family number: 23174732 (US6379364B)

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Title: DUAL DRILL GUIDE FOR A LOCKING BONE PLATE

Abstract: A surgical drill guide assembly for demountable attachment to the fastener holes of a bone plate is provided. The drill guide assembly includes a pair of alignment drill tubes that are aligned with corresponding fastener holes in the bone plate, and a pair of expandable bushings that are configured and dimensioned to engage the fastener holes. The surgical drill guide assembly is releasably lockable to the bone plate.

Classifications:

International (IPC 8-9): A61B17/17 A61B17/90 (Advanced/Invention);

A61B19/00 (Advanced/Non-invention);

A61B17/16 A61B17/88 (Core/Invention);

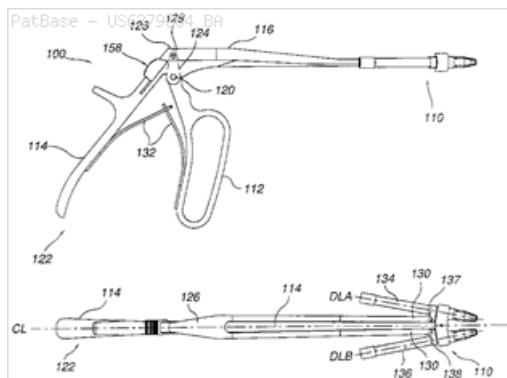
A61B19/00 (Core/Non-invention)

International (IPC 1-7): A61B17/17 A61B17/90

CPC: A61B17/1728 A61B17/1757 A61B2090/034

European: A61B17/17P K61B19/30F2

US: 606/86 606/86.00R 606/86R 606/96



Family:

Publication number	Publication date	Application number	Application date
AU2001242210 AA	20011112	AU20010242210	20010402
AU200142210 A1	20011112	AU20010042210	20010402
AU200142210 A5	20011112	AU20010042210	20010402
CA2406166 AA	20021016	CA20012406166	20010402
US6379364 BA	20020430	US20000560897	20000428
WO0182804 A1	20011108	WO2001CH00209	20010402
WO0182804 C2	20020926	WO2001CH00209	20010402

Priority:

US20000560897 20000428 WO2001CH00209 20010402

Probable Assignee: SYNTHES USA

Assignee(s): (std): BERGER ROGER ; BRACE MICHAEL ; EMCH HANSJUERG W ; SYNTHES USA ; SYNTHES AG

Assignee(s): SYNTHES U S A ; SYNTHES AG CHUR ; SYNTHES CHUR AG ; SYNTHES ; SYNTHES (USA)

Inventor(s): (std): BERGER ROGER ; BRACE MICHAEL ; EMCH HANSJUERG W

Inventor(s): HANSJUERG W EMCH ; ROGER BERGER

Agent(s): OSLER HOSKIN AND HARCOURT LLP

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

47) Family number: 60356755 (US2016375733A)

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Title: SMART TAG ASSEMBLY FOR MOUNTING ON AN OBJECT TO BE TRACKED

Abstract: A smart tag assembly is designed for mounting on an object to be tracked. The smart tag assembly comprises a multiple layer RFID laminate adapted for electronically storing and processing data, and wireless communicating data when interrogated by an RFID reader. The laminate comprises an RFID inlay including a microchip and antenna formed with a substrate, and laminated between an outside label cover and backing. A low-profile tag carrier defines a recessed pocket designed for receiving and holding the RFID laminate.

Classifications:

International (IPC 8-9): A61B17/80 B60C23/04 F16F15/32

G06K19/077 G08B25/10 H04B7/00 (Advanced/Invention)

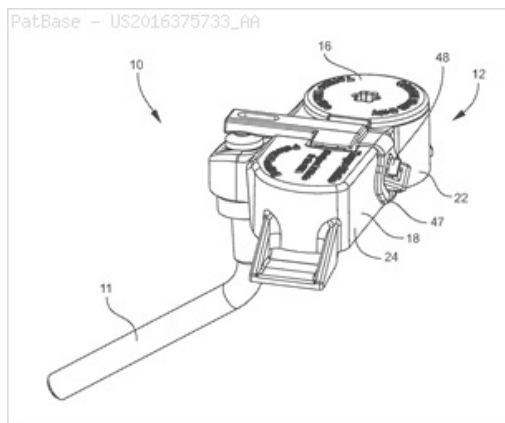
CPC: F16F2230/08 B60C23/0452 B60C23/0488 B60C2019/004

B60C23/0479 B60C23/0494 B60C23/20 G06K19/07764

B60C23/0498 B60C23/0493 F16F15/324 A61B17/8057 A61B17/8061

A61B17/809 B60C23/0483 G06K19/07758 A61B17/8004

US: 340/442 D24/155

**Family:**

Publication number	Publication date	Application number	Application date
AU2016215127 AA	20170824	AU20160215127	20160205
CA2976063 AA	20170804	CA20162976063	20160205
EP3253312 A1	20171213	EP20160747336	20160205
EP3253312 A4	20181024	EP20160747336	20160205
US2016375733 AA	20161229	US20150646848	20150310
US2017259631 AA	20170914	US20150519727	20151019
US2017325859 AA	20171116	US20170668856	20170804
USD819209 S1	20180529	US20150535566F	20150807
WO15138431 A2	20150917	WO2015US19675	20150310
WO15138431 A3	20151126	WO2015US19675	20150310
WO16061573 A1	20160421	WO2015US56213	20151019
WO16127060 A1	20160811	WO2016US16786	20160205

Priority:

US20140950507P	20140310	US20140983541P	20140424	US20140002479P	20140523
US20140112329P	20141017	US20140122329P	20141017	US20150112329P	20150205
US20150115370P	20150212	WO2015US19675	20150310	US20150646848	20150310
US20150173698P	20150610	US20150535566F	20150807	WO2015US56213	20151019
US20150519727	20151019	WO2016US16786	20160205	US20170668856	20170804

Probable Assignee: ITIRE LLC**Assignee(s):** (std): ITIRE LLC ; PARAGON 28 INC**Assignee(s):** LINTULA ERIC ; RAYMOND SPANKY ; ZB NA D B A VECTRA BANK COLORADO ; BONO FRANK ; CLENDENIN JOSH ; DACOSTA ALBERT**Inventor(s):** (std): BONO FRANK ; CLENDENIN JOSH ; DACOSTA ALBERT ; DRINKARD SAMUEL DUKE ; LESESKY ALAN C ; LINTULA ERIC ; RAYMOND SPANKY**Agent(s):** IN LEGAL LTD; SMART AND BIGGAR; BUZZI FRANCO; HESLIN ROTHENBERG FARLEY AND MESITI PC; SCHWARTZ JEFFREY J; GRAFF JACQUELYN A**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**48) Family number: 11467784** (US968046A)

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Title: Provisional fixation pin

Abstract: A method and apparatus for reducing a fracture provides a provisional fixation pin to provisionally affix the bone plate to the bone prior to the installation of the bone plate with permanent attachment, such as bone screws. The method and apparatus of the present invention will maintain some reduction without significantly compromising the bone. The method utilizes a provisional fixation pin having an upper or proximal unthreaded shaft section and a lower externally threaded shaft section. A cutting tip is provided at the extreme distal end of the fixation pin. In between the proximal and distal sections is an enlarged diameter section that has an annular surface sized and shaped to conform to the countersunk surface of openings in the bone plate.

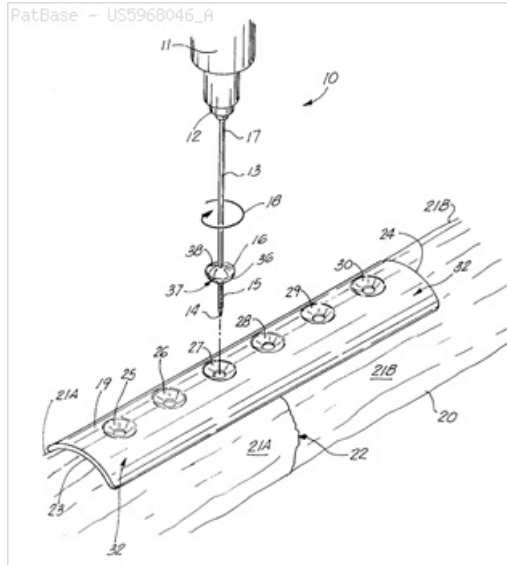
Classifications:**International (IPC 8-9):** A61B17/58 A61B17/80

A61B17/86 (Advanced/Invention);

A61B17/58 A61B17/80 (Advanced/Non-invention);

A61B17/58 A61B17/68 (Core/Invention)

International (IPC 1-7): A61B17/58 A61B17/80 A61B17/86**CPC:** A61B17/80 A61B17/8605 A61B17/8625**European:** A61B17/86A A61B17/86B K61B17/80**US:** 606/286 606/69 606/73

**Family:**

Publication number	Publication date	Application number	Application date
AT253328 E	20031115	AT19990927206T	19990603
AU199944170 A1	19991220	AU19990044170	19990603
AU743016 B2	20020117	AU19990044170	19990603
CA2331900 AA	20001109	CA19992331900	19990603
CA2331900 C	20070424	CA19992331900	19990603
DE69912600 D1	20031211	DE19996012600	19990603
DE69912600 D1	20031211	DE19996012600T	19990603
DE69912600 T2	20040930	DE19996012600T	19990603
DK1083837 T3	20040315	DK19990927206T	19990603
EP1083837 A1	20010321	EP19990927206	19990603
EP1083837 B1	20031105	EP19990927206	19990603
ES2209450 T3	20040616	ES19990927206T	19990603
JP2002516699 T2	20020611	JP20000551682T	19990603
JP4080160 B2	20080423	JP20000551682T	19990603
PT1083837 T	20040331	PT19990927206T	19990603
US5968046 A	19991019	US19980090117	19980604
WO9962419 A1	19991209	WO1999US12438	19990603

Priority:

US19980090117 19980604 WO1999US12438 19990603

Probable Assignee: SMITH AND NEPHEW PLC

Assignee(s): (std): SMITH AND NEPHEW INC ; SMITH AND NEPHEW PLC

Assignee(s): CASTLEMAN DAVID ; N A

Inventor(s): (std): CASTLEMAN DAVID

Inventor(s): DAVID CASTLEMAN

Agent(s): DAVIES COLLISON CAVE; DAVIES COLLISON CAVE PTY LTD; BORDEN LADNER GERVAIS LLP; NOGAWA SHINTARO

Designated states: AL AM AT AU AZ BA BB BE BF BG BJ BR BY CA CF CG CH CI CM CN CU CY CZ DE DK 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 MC MD MG MK ML MN MR MW MX NE NL NO NZ PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TR TT UA UG UZ VN YU ZW

(49) Family number: 15255790 (US5752958A)

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Title: Bone fixation plate

Abstract: A surgical connector that comprises a grid plate having multiple holes therethrough, and distributed over the plate area; there being plate material in the form of a ring extending about each hole; the plate defining multiple ribs; three of the ribs connecting each ring with three others of the rings.

Classifications:

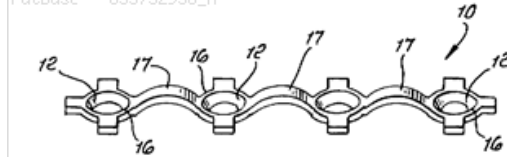
International (IPC 8-9): A61B17/58 A61B17/80 (Advanced/Invention); A61B17/58 A61B17/68 (Core/Invention)

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

CPC: A61B17/8085

European: A61B17/80P

US: 606/280 606/285 606/69 606/72

**Family:**

Publication number	Publication date	Application number	Application date
GB2323790 A1	19981007	GB19980004153	19980226
GB2323790 B2	20010328	GB19980004153	19980226
GB9804153 A0	19980422	GB19980004153	19980226
JP10277053 A2	19981020	JP19980038220	19980220

Priority:

US19970831906 19970402

Probable Assignee: TADEUSZ Z WELLISZ

Assignee(s): (std): WELLISZ TADEUSZ Z ; WELLISZ TADEUSZ ZIBIGNIEW

Assignee(s): TADEUSZ Z WELLISZ ; TADEUSZ ZIBIGNIEW WELLISZ

Inventor(s): (std): WELLISZ TADEUSZ ZIBIGNIEW ; WELLISZ TADEUSZ Z

Inventor(s): TADEUSZ ZIBIGNIEW WELLISZ

50) Family number: 62820813 (US2016192970A)

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Title: BONE PLATING SYSTEM AND METHOD

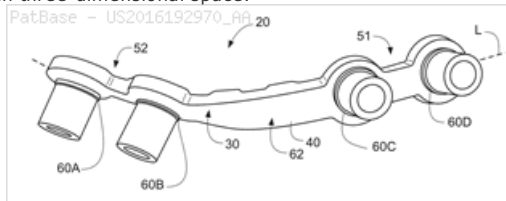
Abstract: A bone plate can be used to fixate one or more bones. In some examples, the bone plate defines an elongated body having a plurality of fixation holes arrayed at different points along the length of the body. For example, the bone plate may have opposed fixation holes separated by a bridge. The bone plate may be bent or shaped along a central longitudinal axis extending through the elongated body and also twisted around the central longitudinal axis. The bending and twisting can position each fixation hole of the elongated body in a different plane in three-dimensional space.

Classifications:

International (IPC 8-9): A61B17/80 A61B17/88 (Advanced/Invention)

CPC: A61B17/8085 A61B2017/564 A61B17/8028 A61B17/80

US: 606/281 606/283



Family:

Publication number	Publication date	Application number	Application date
AU2016205290 AA	20170727	AU20160205290	20160107
CA2973105 AA	20170705	CA20162973105	20160107
EP3242617 A1	20171115	EP20160735405	20160107
EP3242617 A4	20180919	EP20160735405	20160107
JP2018504959 T2	20180222	JP20170536855T	20160107
US2016192970 AA	20160707	US20160990368	20160107
WO16112178 A1	20160714	WO2016US12462	20160107

Priority:

US20150100541P 20150107 US20150145964P 20150410 US20160990368 20160107
WO2016US12462 20160107

Probable Assignee: TREACE MEDICAL CONCEPTS INC

Assignee(s): (std): TREACE MEDICAL CONCEPTS INC

Assignee(s): BRUMFIELD DAVID L ; DAYTON PAUL ; HATCH DANIEL J ; SMITH BRET W

Inventor(s): (std): BRUMFIELD DAVID L ; DAYTON PAUL ; HATCH DANIEL J ; SMITH BRET W ; SMITH W BRET

Agent(s): GRIFFITH HACK; BORDEN LADNER GERVAIS LLP; BOGGIO MERLO ANITA; AOKI ATSUSHI; LAVANWAY PAUL J JR 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

51) Family number: 70417814 (US2018193071A)

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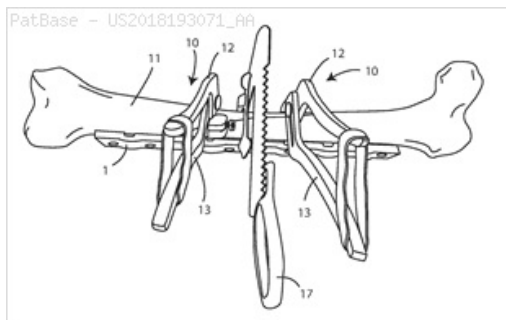
Title: PLATE FOR SYNTHESIS OF A BONE FRACTURE, KIT INCORPORATING THAT PLATE AND METHOD FOR SYNTHESIS OF A FRACTURED BONE

Abstract: A plate (1) for synthesis of a bone fracture, a first side (3) being defined in the plate (1), the plate (1) comprising, on the first side (3), at least two projecting portions (6) shaped for resting, in use, on a fractured bone (11), between the at least two projecting portions (6) at least one cavity (7) being formed for, in use, receiving at least one portion of a bone fracture reduction instrument (10), in such a way that the plate (1) is applicable, in use, on the fractured bone (11) while the instrument (10) is in the reduction position. Taught herein also a kit comprising that plate (1) and at least one bone fracture reduction clamp (10) comprising at least one removable gripping portion (14), for gripping a fractured bone (11). Taught herein also a method for synthesis of a fractured bone.

Classifications:

International (IPC 8-9): A61B17/80 (Advanced/Invention)

CPC: A61B17/8019 A61B17/809 A61B17/808 A61B17/8028



Family:

Publication number	Publication date	Application number	Application date
EP3348217 A1	20180718	EP20170204832	20171201
IT201700002652 A1	20180712	IT201710000002652	20170112
US2018193071 AA	20180712	US20180863926	20180107

Priority:

IT201710000002652 20170112

Probable Assignee: 2B1 S R L**Assignee(s):** (std): 2B1 S R L**Assignee(s):** 2B1 SRL**Inventor(s):** (std): ERRICO CARMINE**Agent(s):** TIBURZI ANDREA**Designated states:** AL AT BA BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC ME MK MT NL NO PL PT RO RS SE SI SK SM TR**52) Family number: 28193817** (US2002062127A)

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Title: METHOD AND APPARATUS FOR MANDIBULAR OSTEOSYNTHESIS

Abstract: A system for mandibular reconstruction generally includes an elongated locking plate having a plurality of internally threaded apertures and a plurality of fasteners. Each fastener includes a main body portion having an upper threaded shaft and a lower threaded shaft. The lower threaded shaft is adapted to engage the mandible. Each fastener further includes a removable head portion internally threaded for engaging the upper shaft portion and externally threaded for engaging a selected one of the internally threaded apertures of the locking plate. In the preferred embodiment, the thread leads of the head portion and lower shaft of the main body portion are identical. A method of mandibular osteosynthesis utilizes the system of osteosynthesis and generally comprises the steps of temporarily securing the elongated locking plate to the mandible with at least one fastener by engaging the threads of the lower portion with the mandible and threadably engaging the head with the locking plate, unthreading the head portion from the main body of the fastener to thereby allow displacement of the locking plate from the mandible without removing the fasteners from the mandible, performing a surgical procedure (e.g., removal of a cancerous growth), and re-securing the elongated plate to the fastener with the removable head portion.

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

A61B17/88 (Advanced/Invention);

A61B17/00 A61B17/86 A61B17/88 (Advanced/Non-invention);

A61B17/58 A61B17/68 A61B17/88 (Core/Invention);

A61B17/00 A61B17/88 (Core/Non-invention)

International (IPC 1-7): A61B17/56 A61B17/58**CPC:** A61B17/80 A61B17/8052 A61B17/8685 A61B17/8863

Y10S606/905 Y10S606/904 Y10S606/916 A61B17/8076

A61B2017/00004 A61B17/8047 A61B17/8071 A61B17/8615

A61B17/888 A61B17/8888

European: A61B17/80 A61B17/80D6 A61B17/80H4 A61B17/80H6

A61B17/86A2C A61B17/88S A61B17/88S2C A61B17/88S4C

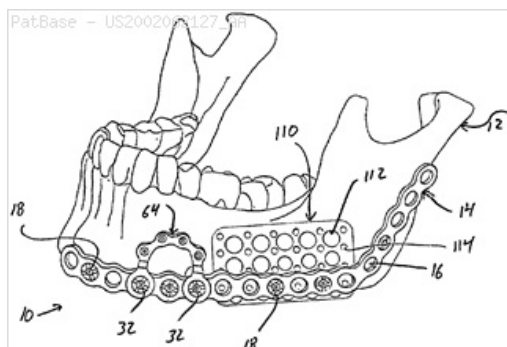
K61B17/00A K61B17/80D6 K61B17/80F K61B17/86P K61B17/88F

US: 606/104 606/280 606/280S 606/281 606/285 606/285S 606/286

606/286S 606/291 606/291P 606/298 606/298S 606/300 606/300S

606/306 606/331 606/331S 606/69 606/70 606/70P 606/71 606/73

606/904 606/905 606/905S 606/916

**Family:**

Publication number	Publication date	Application number	Application date
DE602005005918 D1	20080521	DE200560005918T	20051019
DE602005005918 T2	20090416	DE200560005918T	20051019
EP1654994 A1	20060510	EP20050022829	20051019
EP1654994 B1	20080409	EP20050022829	20051019
ES2303173 T3	20080801	ES20050022829T	20051019
JP2006130317 A2	20060525	JP20050319509	20051102
US2002062127 AA	20020523	US20010047520	20011029
US2002128654 AA	20020912	US20020081166	20020222
US2005065521 AA	20050324	US20040980705	20041103
US2010179600 AA	20100715	US20100732009	20100325
US6129728 A	20001010	US19980025140	19980218
US6325803 BA	20011204	US19990394287	19990910
US7052499 BB	20060530	US20020081166	20020222
US8460345 BB	20130611	US20100732009	20100325

Priority:

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US20100732009 20100325

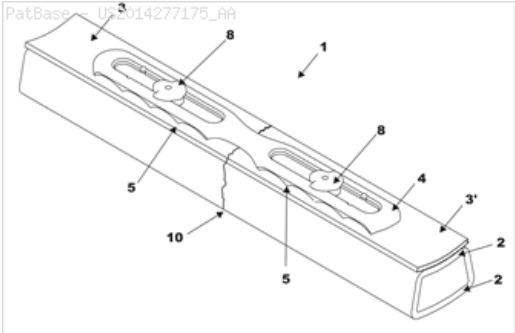
Probable Assignee: ZIMMER BIOMET CMF AND THORACIC LLC**Assignee(s):** (std): BIOMET MICROFIXATION LLC ; DUNCAN JEFFREY A ; W L LORENZ ; STEGER SHON D ; STONE KEVIN T ; SCHUMACHER BRIAN S ; WALTER LORENZ SURGICAL INC ; HERRINGTON STEPHEN M**Assignee(s):** LVB ACQUISITION INC ; WL LORENZ ; ZIMMER BIOMET CMF AND THORACIC LLC ; ELECTRO BIOLOGY INC ; 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): DUNCAN JEFFREY A ; HERRINGTON STEPHEN M ; SCHUMACHER BRIAN S ; STEGER SHON D ; STONE KEVIN T**Inventor(s):** STEGER SHON ; SCHUMACHER BRIAN ; DUNCAN JEFFREY**Agent(s):** MANITZ FINSTERWALD AND PARTNER GBR; HARNESS DICKEY AND PIERCE PLC; HARNESS DICKEY**Designated states:** CH DE ES FR GB IT LI

Title: BONE REPAIR SYSTEM, KIT AND METHOD

Abstract: A bone repair system, kit and method for percutaneous repair of a bone segment containing a first bone segment and a second bone segment in a patient, each bone segment having a drill hole. The system comprises a longitudinal member configured to contact the first bone segment and the second bone segment and having at least one opening and cleats on the side adapted to contact the first bone segment and the second bone segment; a first fastener assembly configured to be disposed through the opening of the longitudinal member to hold the longitudinal member in place through the opening and the hole in the first bone segment; and a second fastener assembly configured to be disposed through the opening of the longitudinal member to hold the longitudinal member in place through the opening and the hole in the second bone segment.

Classifications:

International (IPC 8-9): A61B17/16 A61B17/17 A61B17/29 A61B17/34 A61B17/68 A61B17/80 A61B17/86 A61B17/88 A61B19/00 A61B90/00 A61B90/92 (Advanced/Invention); A61B17/16 A61B17/17 A61B17/29 (Advanced/Non-invention)
CPC: A61B17/809 A61B17/8861 A61B17/17 A61B17/86 A61B17/8042 A61B17/8052 A61B17/808 A61B17/1615 A61B17/1728 A61B17/1792 A61B17/683 A61B17/8076 A61B17/8625 A61B17/8665 A61B17/8872 A61B17/8886 A61B17/8897 A61B90/92 A61B2017/867 A61B2090/062
US: 606/281 606/295 606/297



Family:

Publication number	Publication date	Application number	Application date
BR112015022984 A2	20170718	BR20151122984	20140312
CA2907227 AA	20150915	CA20142907227	20140312
CN105263430 A	20160120	CN201480015849	20140312
CN105263430 B	20190108	CN201480015849	20140312
DE602014015362 D1	20171116	DE201460015362T	20140312
EP2988688 A1	20160302	EP20140720756	20140312
EP2988688 B1	20171004	EP20140720756	20140312
ES2652186 T3	20180131	ES20140720756T	20140312
IN07939DN2015 A	20160429	IN2015DN07939	20150903
JP2016512086 T2	20160425	JP20160501526T	20140312
JP6338129 B2	20180606	JP20160501526T	20140312
KR20150126965 A	20151113	KR20157029347	20140312
US2014277175 AA	20140918	US20130835719	20130315
WO14150858 A1	20140925	WO2014US24412	20140312

Priority:

US20130835719 20130315 EP20140720756 20140312 WO2014US24412 20140312

Probable Assignee: PENN STATE RESEARCH FOUNDATION

Assignee(s): (std): DEPUY SYNTHES PRODUCTS LLC ; FELL BARRY M ; MACKAY DONALD R ; DILLON PETER W ; HALUCK RANDY S ; GRADY MARK ; GRIFFITHS BRYAN ; CAMPBELL CHRISTOPHER A ; DEPUY SYNTHES PRODUCTS INC ; ROTH CHRISTOPH A ; THERMOPLASTIC PRODUCTS CORP

Assignee(s): THERMOPLASTIC PRODUCTS HUMMELSTOWN CORP ; SYNTHES USA PRODUCTS LLC ; DEPUY SYNTHES PRODUCTS INC RAYNHAM ; PENN STATE RESEARCH FOUNDATION ; N A

Inventor(s): (std): BARRY M FELL ; BRYAN GRIFFITHS ; CAMPBELL CHRISTOPHER A ; CHRISTOPH A ROTH ; CHRISTOPHER A CAMPBELL ; DILLON PETER W ; DONALD R MACKAY ; FELL BARRY M ; GRADY MARK ; GRIFFITHS BRYAN ; HALUCK RANDY S ; MARK GRADY ; PETER W DILLON ; RANDY S HALUCK ; ROTH CHRISTOPH A ; MACKAY DONALD R

Inventor(s): MACKAY DONALD R HERSHEY ; ROTH CHRISTOPH A WEST CHESTER ; HALUCK RANDY S LITIZ ; GRIFFITHS BRYAN WEST CHESTER ; GRADY MARK WEST CHESTER ; FELL BARRY M HUMMELSTOWN ; DILLON PETER W HUMMELSTOWN ; CAMPBELL CHRISTOPHER A WEST CHESTER

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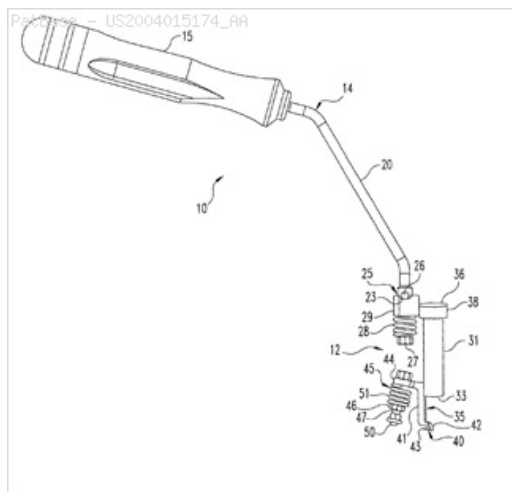
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Title: GUIDE ASSEMBLY FOR ENGAGING A BONE PLATE TO A BONY SEGMENT

Abstract: A surgical instrument guide assembly is positionable on a bone plate. The instrument guide assembly includes at least one guide member alignable with a corresponding fastener opening in the bone plate when the guide assembly is positioned on the bone plate. The at least one guide member can guide various surgical instruments through the fastener hole in the plate.

Classifications:

International (IPC 8-9): A61B17/17 A61B17/58 (Advanced/Invention); A61B17/16 A61B17/58 (Core/Invention)
International (IPC 1-7): A61B17/00 A61B17/17 A61B17/58
CPC: A61B17/1728 A61B17/1735 A61B17/1757
European: A61B17/17P K61B17/17R K61B17/17S4
US: 606/99



Family:

Publication number	Publication date	Application number	Application date
AU2003259144 AA	20040209	AU20030259144	20030717
AU2003259144 AH	20040209	AU20030259144	20030717
US2004015174 AA	20040122	US20020200397	20020722
US7011665 BB	20060314	US20020200397	20020722
WO04008972 A2	20040129	WO2003US22293	20030717
WO04008972 A3	20040521	WO2003US22293	20030717

Priority:

US20020200397 20020722 WO2003US22293 20030717

Probable Assignee: WARSAW ORTHOPEDIC INC

Assignee(s): (std): BURD BRIAN A ; NULL WILLIAM B ; SDGI HOLDINGS INC

Assignee(s): WARSAW ORTHOPEDIC INC

Inventor(s): (std): WILLIAM B NULL ; BRIAN A BURD ; NULL WILLIAM B ; BURD BRIAN A

Agent(s): KRIEG DEVAULT 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 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 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 UZ VC VN YU ZA ZM ZW

55) Family number: 55755840 (USD699351S)

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Title: OSTEOSYNTHESIS PLATE

Abstract: The ornamental design for an osteosynthesis plate, as shown and described.

Classifications:

US: D24/155

Locarno class: 24/02



Family:

Publication number	Publication date	Application number	Application date
USD699351 S1	20140211	US20130441433F	20130104

Priority:

US20130441433F 20130104

Probable Assignee: D L P SARL

Assignee(s): (std): D L P ; D L P SARL

Assignee(s): DLP

Inventor(s): (std): PODGORSKI JEAN PIERRE ; LARCHE GREGOIRE ; DESCHAMPS GERARD ; CHOL CHRISTOPHE ; BUSSIÈRE CHRISTOPHE ; BAUDRY FRANK

Agent(s): GORDON AND REES LLP

56) Family number: 71310889 (WO18172113A1)

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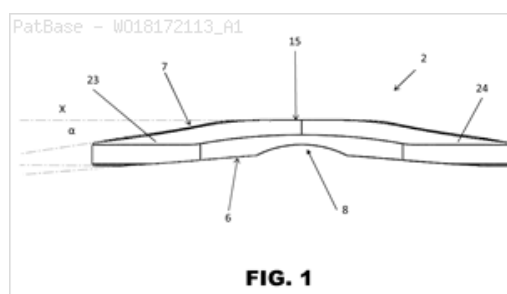
Title: BONE PLATE

Abstract: The present invention relates to an internal fixator device (1) of the bone plate type to be used as synthesis means in anatomical regions or epiphyses/ metaphyses with poor coating of soft tissue, of the type comprising a two-lobe or eight-shaped bone plate (2) comprising a pair of lobed portions (23, 24) which are linked by a central linking portion (15) and in each of which at least one through-hole (3, 4) is formed to receive a corresponding bone fixation screw (5). Advantageously, each of the pair of lobed portions (23, 24) of the bone plate (2) has an upper surface (7) inclined relative to a reference plane (X) coinciding with a second upper surface of the linking central portion (15) of the bone plate (2), and a lower surface (6) configured for contact with the bone and inclined relative to the same reference plane (X) with a smaller inclination.

Classifications:

International (IPC 8-9): A61B17/80 (Advanced/Invention)

CPC: A61B17/80 A61B17/8061

**Family:**

Publication number	Publication date	Application number	Application date
IT201700030628 A1	20180920	IT201710000030628	20170320
WO18172113 A1	20180927	WO2018EP56022	20180312

Priority:

IT201710000030628 20170320

Probable Assignee: ORTHOFIX SRL

Assignee(s): (std): ORTHOFIX SRL

Inventor(s): (std): MAGNI MARCO ; VENTURINI DANIELE ; ZACCARIA ANDREA

Agent(s): ZELIOLI GIOVANNI

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

57) Family number: 67915925 (WO17215896A1)

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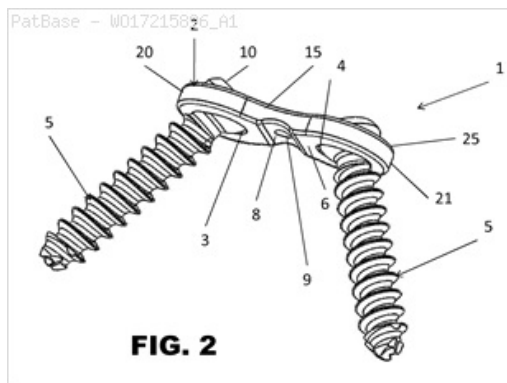
Title: INTERNAL PLATE FIXATION DEVICE

Abstract: The present invention relates to an internal bone plate fixation device (1) for use as a means of synthesis in anatomical regions or epiphysis/ metaphysis with poor coating of soft tissues, of the type comprising a bone plate (2) that is bilobate or having eight-like shape, comprising a pair of portions (23, 24) adapted to be respectively associated to the epiphysis and to the metaphysis of a bone and joined by a central portion (15) and in each of which is formed at least one through hole (3, 4) to receive a corresponding screw (5) for fixing to the bone. Advantageously, the bone plate (2) is flat with almost constant thickness and is delimited by opposite surfaces (6, 7) parallel with a single recess (8) or notch that is transversal to the longitudinal axis of bone plate (2) formed on only one (6) of said surfaces (6, 7), with the thickness (s) of the plate being less than a ninth of its maximum longitudinal extension (L).

Classifications:

International (IPC 8-9): A61B17/80 (Advanced/Invention)

CPC: A61B17/8061 A61B17/80 A61B17/8085



Family:

Publication number	Publication date	Application number	Application date
CN109310458 A	20190205	CN201780036096	20170524
EP3257457 A1	20171220	EP20160425059	20160617
WO17215896 A1	20171221	WO2017EP62653	20170524

Priority:

EP20160425059 20160617 WO2017EP62653 20170524

Probable Assignee: ORTHOFIX SRL

Assignee(s): (std): ORTHOFIX SRL

Inventor(s): (std): MAGNI MARCO ; VENTURINI DANIELE ; ZACCARIA ANDREA ; ZACCARIA ANDREA

Agent(s): BOTTI MARIO

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

58) Family number: 67915927 (WO17215938A1)

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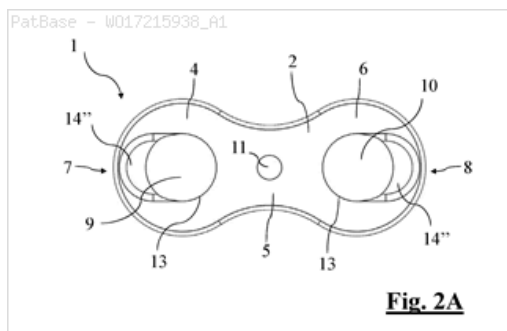
Title: BONE PLATE FOR EPIPHYSIODESIS

Abstract: The present invention relates to a bone plate (1, 21) for epiphysiodesis, which has been advantageously improved to allow better articulation of the fixing screws engaged with the bone plate (1, 21), comprising: a first portion(4) and a second portion(6) joined by a connecting portion(5), intersected by a first (9) and a second opening (10), respectively, structured to receive the same number of fixing screws; the bone plate having a bilobal figure, such as an eight shape;at least one of said first (9) and second (10) openings comprising: a cup-shaped seat (12) for housing a fixing screw head in a tiltable manner, and at least one recess (14") which merges into the cup-shaped seat (12) expanding an exit section (12b) away from the connecting portion (5).

Classifications:

International (IPC 8-9): A61B17/80 (Advanced/Invention)

CPC: A61B17/8061 A61B17/80



Family:

Publication number	Publication date	Application number	Application date
CN109414282 A	20190301	CN201780036058	20170601
EP3257458 A1	20171220	EP20160425060	20160617
WO17215938 A1	20171221	WO2017EP63332	20170601

Priority:

EP20160425060 20160617 WO2017EP63332 20170601

Probable Assignee: ORTHOFIX SRL

Assignee(s): (std): ORTHOFIX SRL

Inventor(s): (std): MAGNI MARCO ; VENTURINI DANIELE ; ZACCARIA ANDREA

Agent(s): BOTTI MARIO

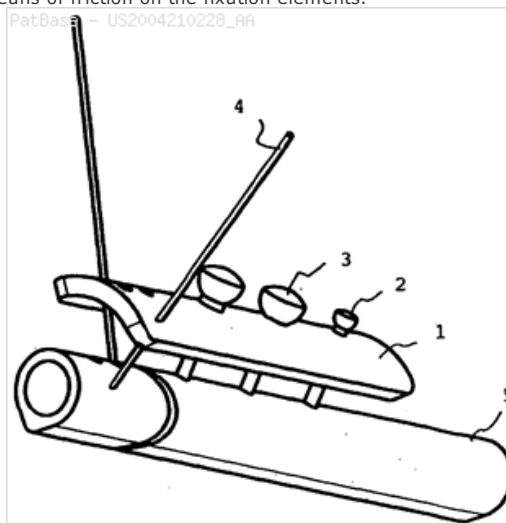
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Title: SYSTEM FOR FIXATION OF FRACTURES COMPRISING AN ELASTIC CHASSIS

Abstract: The present invention concerns a system for fixation of fractures. The system comprises a chassis and one or more fixation elements in the form of screws and/or pins. Each fixation element is received in the chassis in such a way that it is locked by friction regarding movement in axial, rotational and angular directions. The friction is preferably given by the material of the chassis having an elasticity giving locking effect by means of friction on the fixation elements.

Classifications:

International (IPC 8-9): A61B17/56 A61B17/58 A61B17/64
A61B17/68 A61B17/80 A61F5/04 (Advanced/Invention);
A61B17/70 (Advanced/Non-invention);
A61B17/56 A61B17/58 A61B17/60 A61B17/68 (Core/Invention);
A61B17/70 (Core/Non-invention);
A61B (Subclass/Invention)
International (IPC 1-7): A61B A61B17/56 A61B17/58 A61B17/68
A61J7/00
CPC: A61B17/6458 A61B17/80 A61B17/8052
European: A61B17/64K A61B17/80F K61B17/70J K61B17/80
US: 606/280 606/54 606/79 606/79P



Family:

Publication number	Publication date	Application number	Application date
AT456936 E	20100215	AT20020802400T	20021023
AU2002363205 AA	20030512	AU20020363205	20021023
AU2002363205 BB	20080117	AU20020363205	20021023
CN100335013 C	20070905	CN20028021383	20021023
CN1575152 A	20050202	CN20028021383	20021023
DE60235284 D1	20100325	DE20026035284	20021023
EP1439787 A1	20040728	EP20020802400	20021023
EP1439787 B1	20100203	EP20020802400	20021023
ES2340574 T3	20100607	ES20020802400T	20021023
JP2005507280 T2	20050317	JP20030539545T	20021023
JP4499415 B2	20100707	JP20030539545T	20021023
SE200103575 A	20030430	SE20010003575	20011029
SE200103575 A0	20011029	SE20010003575	20011029
SE200103575 L	20030430	SE20010003575	20011029
SE522202 C2	20040120	SE20010003575	20011029
US2004210228 AA	20041021	US20040825128	20040416
US7935115 BB	20110503	US20040825128	20040416
WO03037197 A1	20030508	WO2002SE01930	20021023
ZA200403128 A	20050629	ZA20040003128	20040423
ZA200403128 A	20050425	ZA20040003128	20040423

Priority:

SE20010003575 20011029 WO2002SE01930 20021023

Probable Assignee: GENERAL ORTHOPEDICS INT AB

Assignee(s): (std): GEN ORHOPEDICS INT AB ; GEN ORTHOPEDICS INT AB ; GEN ORTHOPEDICS INTERNAT AB ; GENERAL ORHOPEDICS INT AB ; GENERAL ORTHOPEDICS INT AB ; HAGERT CARL GOERAN ; HAGERT CARL GORAN ; GENERAL ORTHOPEDICS INTERNATIONAL AB

Inventor(s): (std): CARL GOERAN HAGERT ; CARL GORAN HAGERT ; HAGERT CARL GORAN ; HAGERT CARL GOERAN

Agent(s): FREEHILLS PATENT ATTORNEYS; FREEHILLS PATENT ATTORNEY S; FPA PATENT ATTORNEYS PTY LTD; HERBERT SMITH FREEHILLS; WAGNER KARL HEINZ; TAROLLI SUNDHEIM COVELL AND TUMMINO LLP

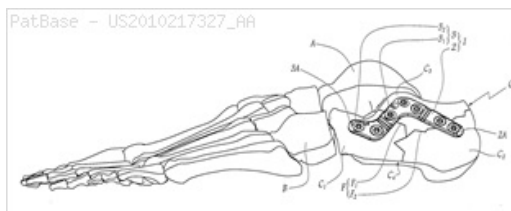
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Title: PLATE AND SYSTEM FOR LATERAL TREATMENT OF A FRACTURE OF THE CALCANEUS

Abstract: A plate includes a substantially rectilinear posterior tab and an anterior tab. The anterior tab includes a substantially rectilinear rear longitudinal part connected rigidly to the posterior tab such that they form between them a first angle of between about 90 degrees and about 110 degrees and a substantially rectilinear front longitudinal part which is inclined with respect to the substantially rectilinear rear longitudinal part such that they form between them a second angle which is between about 230 degrees and about 250 degrees. The second angle is at the same angular orientation as the first angle. The plate is thus shaped appropriately in relation to the calcaneus and can be placed in position in a minimally invasive manner.

Classifications:

International (IPC 8-9): A61B17/80 A61B17/88 (Advanced/Invention);
A61B17/68 A61B17/88 (Core/Invention)
CPC: A61B17/8061 A61B17/8085
European: A61B17/80H K61B17/80P
US: 606/281 606/281P 606/286 606/286S D24/155

**Family:**

Publication number	Publication date	Application number	Application date
US2010217327 AA	20100826	US20100711427	20100224
USD648027 S1	20111101	US20100360858F	20100430

Priority:

US20090155021P 20090224 FR20090035233 20090515 EM20101667254F 20100209
 US20100711427 20100224 US20100360858F 20100430

Probable Assignee: TORNIER INC**Assignee(s):** (std): SCHON LEW C ; VANCELETTE DAVID W ; TORNIER INC ; HAWKINS WAHL REBECCA ; LITKE RONALD GEORGE**Assignee(s):** MIDCAP FINANCIAL TRUST AGENT AS ; BANK OF AMERICA NA ADMINISTRATIVE AGENT AS**Inventor(s):** (std): VANCELETTE DAVID W ; LITKE RONALD GEORGE ; SCHON LEW C ; HAWKINS WAHL REBECCA**Agent(s):** FAEGRE AND BENSON LLP,PATENT DOCKETING - INTELLECTUAL PROPERTY; FAEGRE AND BENSON LLP
 PATENT DOCKETING INTELLECTUAL PROPERTY; FAEGRE AND BENSON LLP**61) Family number: 32481963 (US5531751A)**

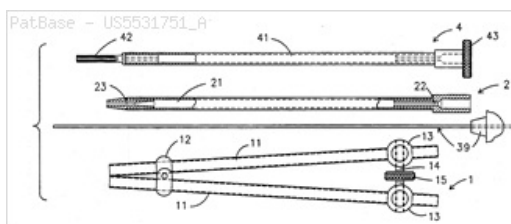
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Title: AIMING TUBE ASSEMBLY

Abstract: A device for facilitating the ventral screwing together of dens fractures with compression screws, characterized by a guide tube assembly comprised of two guide tube casings which are pivotably joined near one end by means of an articulated joint, and which are adjustable within a predetermined range of angles by an adjusting means. Bore wires, milling tools and compression screws can be introduced into the dens via the guide tube assembly at precise spatial and angular relationships set by the aiming tube assembly.

Classifications:**International (IPC 8-9):** A61B17/16 A61B17/17 (Advanced/Invention);
 A61B17/16 (Core/Invention)**International (IPC 1-7):** A61B17/17 A61B17/56 A61B17/70

A61B17/88

CPC: A61B17/1671 A61B17/1615 A61B17/1757 A61B2017/1602**European:** A61B17/16D2 A61B17/16S4 A61B17/17S A61B17/17S4
 K61B17/16A**US:** 606/104 606/96**Family:**

Publication number	Publication date	Application number	Application date
DE4412604 A1	19941208	DE19944412604	19940413
DE4412604 C2	19960711	DE19944412604	19940413
DE9308276 U1	19930916	DE19930008276U	19930602
US5531751 A	19960702	US19940252183	19940601

Priority:

DE19930008276U 19930602 DE19944412604 19940413

Probable Assignee: WEBER GERHARD**Assignee(s):** (std): WEBER GERHARD**Assignee(s):** WEBER GERHARD 78727 OBERNDORF DE ; WEBER GERHARD KONIG WILHELM STRASSE ; GERHARD WEBER**Inventor(s):** (std): SCHULTHEIS ROLF DR MED ; WEBER GERHARD ; SCHULTHEISS ROLF**Inventor(s):** SCHULTHEIS ROLF DR MED PRIV DOZ 53125 BONN DE ; SCHULTHEIS ROLF DR MED PRIV DOZ ;
 WEBER GERHARD 78727 OBERNDORF DE ; SCHULTHEIS ROLF DR MED PRIV DOZ