

44 Documents

Publication numbers	Title	Current assignees
EP3150154 A1	Endosseous screw assembly and internal fixation system comprising said endosseous screw assembly	ORTHOFIX
WO201568027 A2	Endosseous screw assembly and internal fixation system comprising said endosseous screw assembly	ORTHOFIX
EP3150153 A1	Endosseous screw assembly and internal fixation system comprising said endosseous screw assembly	ORTHOFIX
FR2965473 A1	Endosseous implant having improved anchorage	ALTADE
IL-154184 A	Self powered osteogenesis and osseointegration promotion and maintenance device for endosseous implants	CELLECTRIC MEDICAL
WO200919688 A2	Disposable osteogenesis and osseointegration promotion and maintenance device for endosseous implants	CELLECTRIC MEDICAL
US20120209266 A1	External orthopaedic fixator for the elbow joint	ORTHOFIX
US5306150 A	Clamping means for securing surgical implant	GITTLEMAN; NEAL
CA2825630 A1	Systems, apparatus and methods for implementing implants	MID
FR2699065 A1	Self-compressing screw for treating bone end fractures - comprises hollow threaded rod with distal tip and bush with self-tapping surfaces	HARDY JEAN MARIE
WO201791748 A1	Implantable objects, guiding devices, and methods of use thereof	LAUNCHPAD MEDICAL
WO201702223 A1	Implant, fixture, abutment, base-end-side bone component, and tip-end-side bone component	NANTOH
WO201687347 A1	Orthopedic external fixation system for the treatment of complex fractures under precarious surgical environmental conditions	ORTHOFIX
WO201112783 A1	Prosthetic ligament for transverse fixation, and production method	L A R S LABORATOIRE D APPLICATION & DE RECHERCHE SCIENTIFIQUE
US20120209264 A1	Clamp for temporary or definitive external orthopaedic fixation, and external fixation system comprising said clamp	ORTHOFIX
BE-852491 A	Ceramic dental implant	SCHEICHER HANS
CA2853910 A1	Isolating and therapeutic use of perivascular medicinal cells	SAFEGUARD CELL TECHNOLOGY
WO200324408 A2	Compositions and methods involved in bone growth	UNIVERSITY OF ROCHESTER
WO200202156 A2	Osteogenic implants derived from bone	WARSAW ORTHOPEDIC
CA3013841 A1	Improved treatment of implants with phosphonic acid compounds	NANO BRIDGING MOLECULES

Publication numbers	Title	Current assignees
WO2010146308 A1	Method for preparing mechanically structured mother-of-pearl by mechanosynthesis, mechanically structured mother-of-pearl produced thereby, and the applications thereof	MEGA BIO PHARMA
WO200324316 A2	Pore-forming agents for orthopedic cements	STRYKER
WO9711651 A1	Fasteners having coordinated self-seeking conforming members and uses thereof	BIOMEDICAL ENTERPRISES
CA2936475 A1	Method for manufacturing osteosynthesis devices, osteosynthesis devices and implants made of semi-synthetic hybrid material obtained by structural modification of the components of a natural marine biomaterial	MBP MAURITIUS
US20190083202 A1	Apparatus and methods useful for remodeling maxillofacial bone using light therapy, an orthodontic appliance, and optionally, vitamin d administration	BIOLUX RESEARCH HOLDINGS
CA2832402 A1	Fixture element	DENTSPLY
CA2832385 A1	Dental Implant	DENTSPLY
CA2832397 A1	Fixture	DENTSPLY
CA2832399 A1	A set of fixtures	DENTSPLY
WO2015138657 A1	Methods, devices, and manufacture of the devices for musculoskeletal reconstructive surgery	OHIO STATE INNOVATION FOUND, ...
WO201275584 A1	Apparatuses useful for regulating bone remodeling or tooth movement using light therapy and a functional appliance	BIOLUX RESEARCH HOLDINGS
WO2013139985 A2	System for attaching a ligament graft	BREVEXCO
WO200701624 A2	Medical and dental implant devices for controlled drug delivery	MICROCHIPS
WO9325246 A1	Prosthetic devices having enhanced osteogenic properties	STRYKER
DE3811498 A1	Dental jaw implant	WITZEL, ULRICH, DR.-ING., 5600 WUPPERTAL, DE
US20180344894 A1	Implantable objects, guiding devices, and methods of use thereof	LAUNCHPAD MEDICAL
WO201151947 A1	Implant device for stimulating osteogenesis and osseointegration	MAGDENT
JP2006090777W A1	Medical material, artificial tooth root and method of producing material for clinical use	HI LEX
WO2011103689 A1	Method for designing and/or optimizing a surgical device	AO TECHNOLOGY
US5882351 A	Fasteners having coordinated self-seeking conforming members and uses thereof	BIOMEDICAL ENTERPRISES
US20070026032 A1	Bone anchor	VIADERM
US20060194008 A1	Devices with multiple surface functionality	PRINCETON UNIVERSITY
US20150196398 A1	Method for producing osteosynthesis devices, osteosynthesis devices and implants made of semi-synthetic	MBP

Publication numbers	Title	Current assignees
	hybrid material obtained by structural modification of the components of a natural marine biomaterial	
US20050159754 A1	Bone growth via periosteal distraction	ODRICH RONALD B.

Family 1/44 - FAMPAT - ©Questel

Title

(EP3150154)

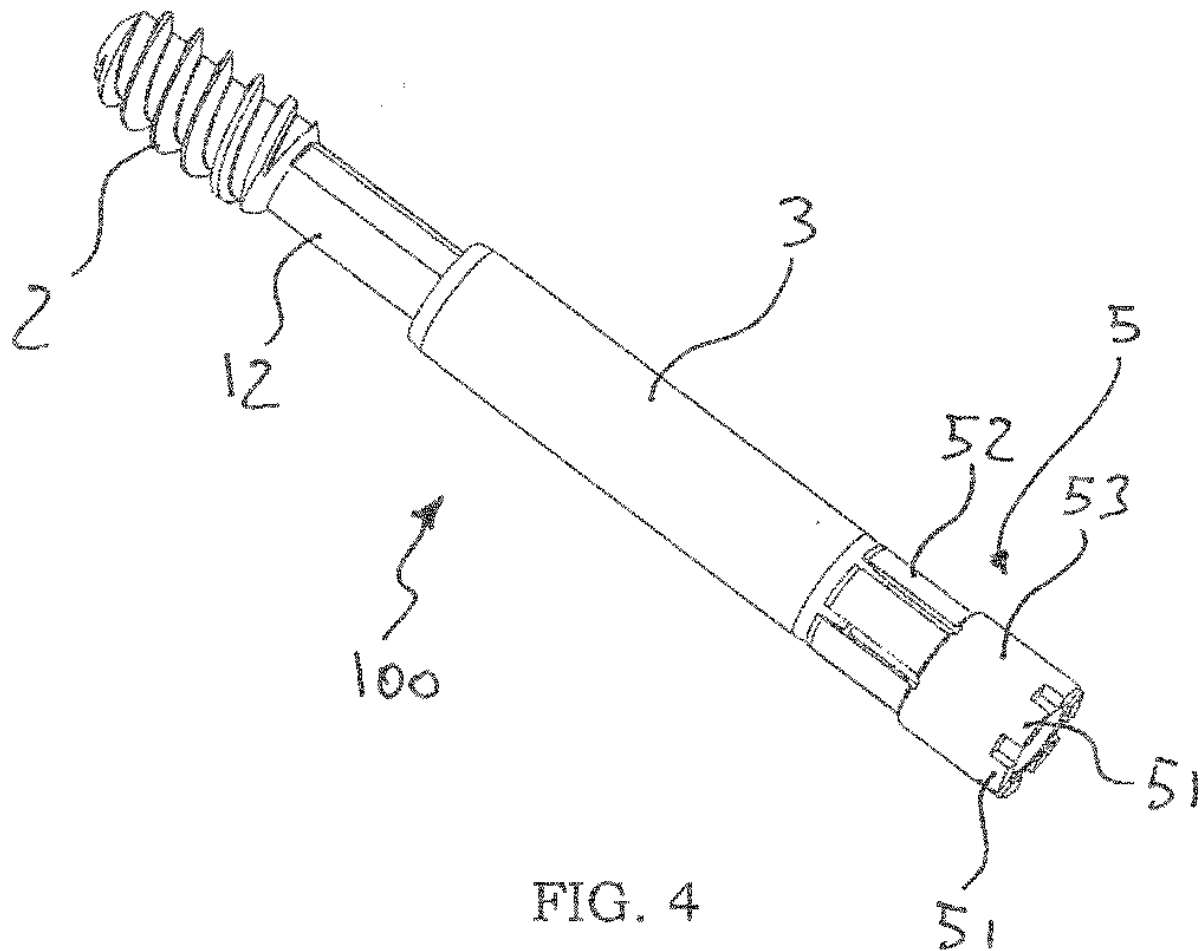
Endosseous screw assembly and internal fixation system comprising said **endosseous screw assembly****Images**

FIG. 4

Publication data including kind & date

EP3150154

A1 2017-04-05 EP3150154

**Abstract**

(EP3150154)

Endosseous screw assembly (100) for an internal fixation system (SC), comprising: a stem (1) extending longitudinally and having at least one threaded proximal portion (2) for allowing anchoring to a bone site of a patient; a connection sleeve (3) suitable for introduction inside a connection hole (42) of a fixation member (40); a ring nut (5) rotatably mounted on the connection sleeve (3) and designed to be arranged making contact against the connection hole (42) of the fixation member (40); where the ring nut (5) is mounted on the connection sleeve (3) by means of a threaded connection and comprises first engaging means (51) suitable for engagement with a first screwdriver (105) for screwing the ring nut (5) on said connection sleeve (3); said ring nut (5) further comprising a plurality of deformable interference means (52) which lie along a conical portion (31) of the connection sleeve (3); said conical portion (31) being designed to be seated inside the connection hole (42) when the connection sleeve (3) is introduced inside said connection hole (42) and being oriented so that relative sliding of the ring nut (5) and the connection sleeve (3), due to screwing of the ring nut (5) with respect to said connection sleeve (3), results in deformation of the deformable interference means (52) so as to obtain a contact force between the fixation member (40) and the ring nut (5) inside the connection hole (42) and lock the **endosseous screw assembly** (100) inside said connection hole (42) of the fixation member (40).

Inventors

LORENZINI DENIS

VICENZI FEDERICO

Latest standardized assignees - inventors removed

ORTHOFIX

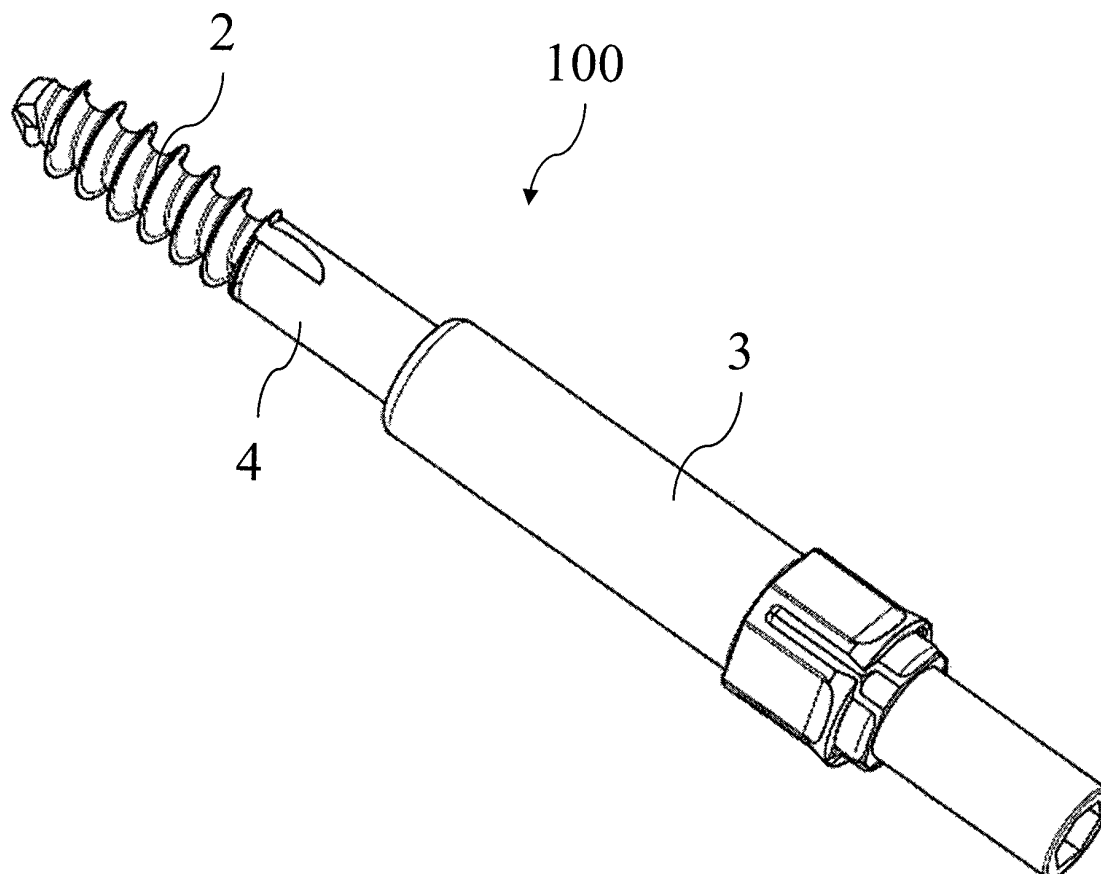
Family 2/44 - FAMPAT - ©Questel

Title

(EP3068326)

Endosseous screw assembly and internal fixation system comprising said endosseous screw assembly

Images



Publication data including kind & date

WO2015/068027	A2	2015-05-14	WO201568027
WO2015/068027	A3	2015-08-13	WO201568027
EP3068326	A2	2016-09-21	EP3068326
US20160296260	A1	2016-10-13	US20160296260
EP3068326	B1	2017-09-20	EP3068326
US10028778	B2	2018-07-24	US10028778



Abstract

(EP3068326)

An **endosseous screw assembly** (100) for an internal fixation system (SC; SP), whose connection to the rest of the system is unusually easy for the surgeon, comprising: a longitudinally extending rod (1) equipped with at least one threaded proximal portion (2); a connection sleeve (3), within which a portion of the rod (1) is slidingly guided, said connection sleeve (3) being arranged to be inserted into a connection hole of an internal fixation member by snap-connecting within said connection hole up to reach a locking position; said rod (1) and said connection sleeve (3) comprising such mutual engagement means so as to form an axial constraint to the sliding of the rod (1) into the connection sleeve (3), so as to define, when the threaded proximal portion (2) advances into a bone site of the patient, a dragging of the connection sleeve (3) into the connection hole up to reach the locking position.

Inventors

VENTURINI DANIELE

LORENZINI DENIS

Latest standardized assignees - inventors removed

ORTHOFIX

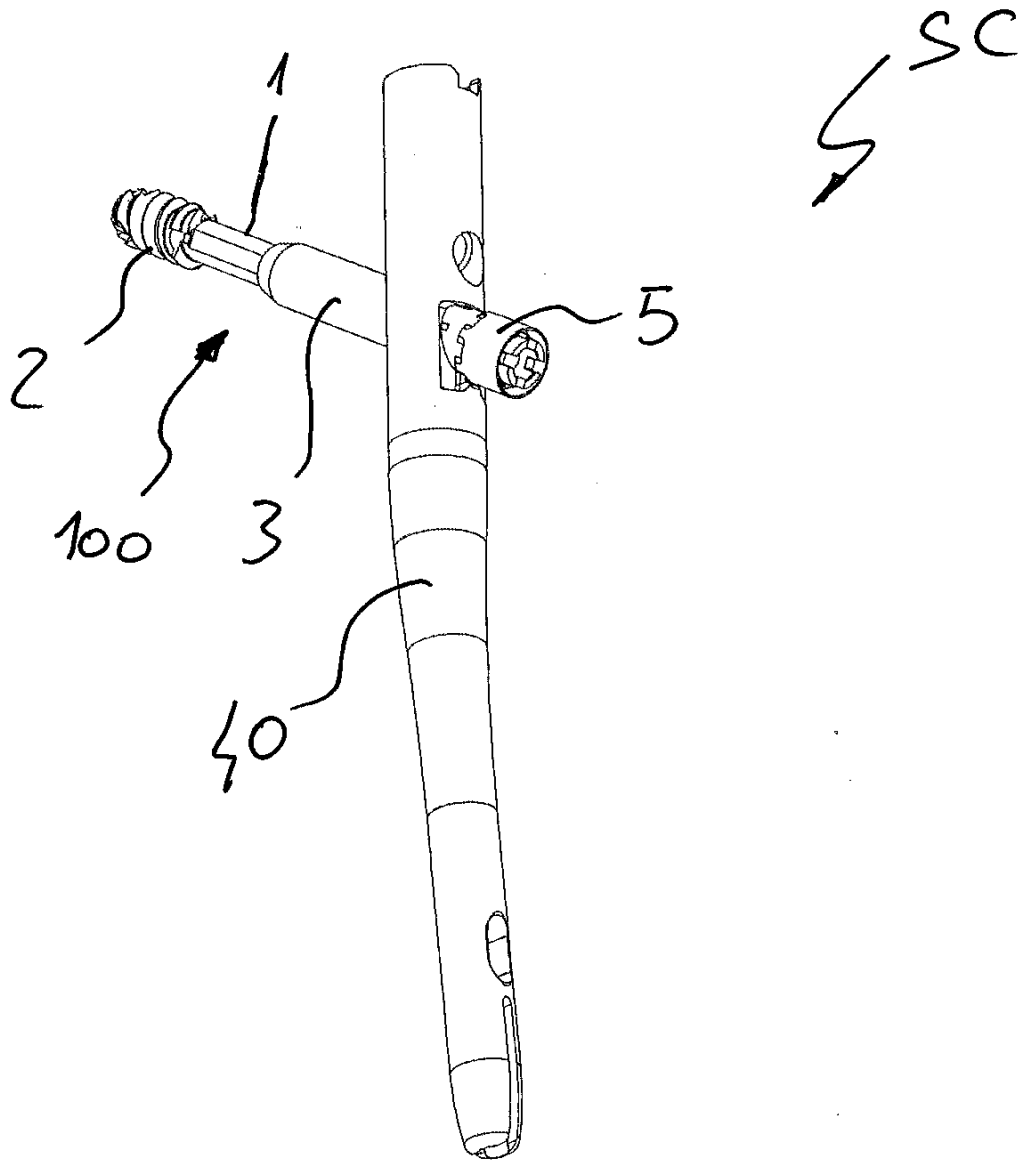
Family 3/44 - FAMPAT - ©Questel

Title

(EP3150153)

Endosseous screw assembly and internal fixation system comprising said **endosseous screw assembly**

Images



Publication data including kind & date

EP3150153	A1	2017-04-05	EP3150153
WO2017/055117	A1	2017-04-06	WO201755117
BR112018006378	A1	2018-04-10	BR112018006378
AU2016333413	A1	2018-04-12	AU2016333413
CO2018003241	A2	2018-06-12	CO2018003241
IL258465	A	2018-06-28	IL-258465
CN108348284	A	2018-07-31	CN108348284
BR112018006378	A2	2018-10-09	BR112018006378
JP2018529436	A	2018-10-11	JP2018529436
US20190038325	A1	2019-02-07	US20190038325



Abstract

(EP3150153)

Endosseous screw assembly (100) for an internal fixation system (SC), comprising: a stem (1) extending longitudinally and having at least one threaded proximal portion (2) for allowing anchoring to a bone site of a patient; a connection sleeve (3) suitable for introduction inside a connection hole (42) of a fixation member (40); a ring nut (5) rotatably mounted on the connection sleeve (3), wherein the ring nut (5) is mounted on the connection sleeve (3) by means of a threaded connection and comprises a rim with teeth (51) designed to cooperate by means of contact with a step (41) formed on the fixation member (40), in the vicinity of the connection hole (42), so as to prevent rotation of said ring nut (5) with respect to the fixation member (40; 40') when the connection sleeve (3) is introduced into the connection hole (42) of the fixation member (40; 40'); said ring nut (5) further comprising a plurality of deformable interference means (52) which lie along a conical portion (31) of the connection sleeve (3); said conical portion (31) being designed to be seated inside the connection hole (42) when the connection sleeve (3) is introduced inside said connection hole (42) and being oriented so that relative sliding of the ring nut (5) and the connection sleeve (3) results in deformation of the deformable interference means (52).

Inventors

LORENZINI DENIS

VICENZI FEDERICO

Latest standardized assignees - inventors removed

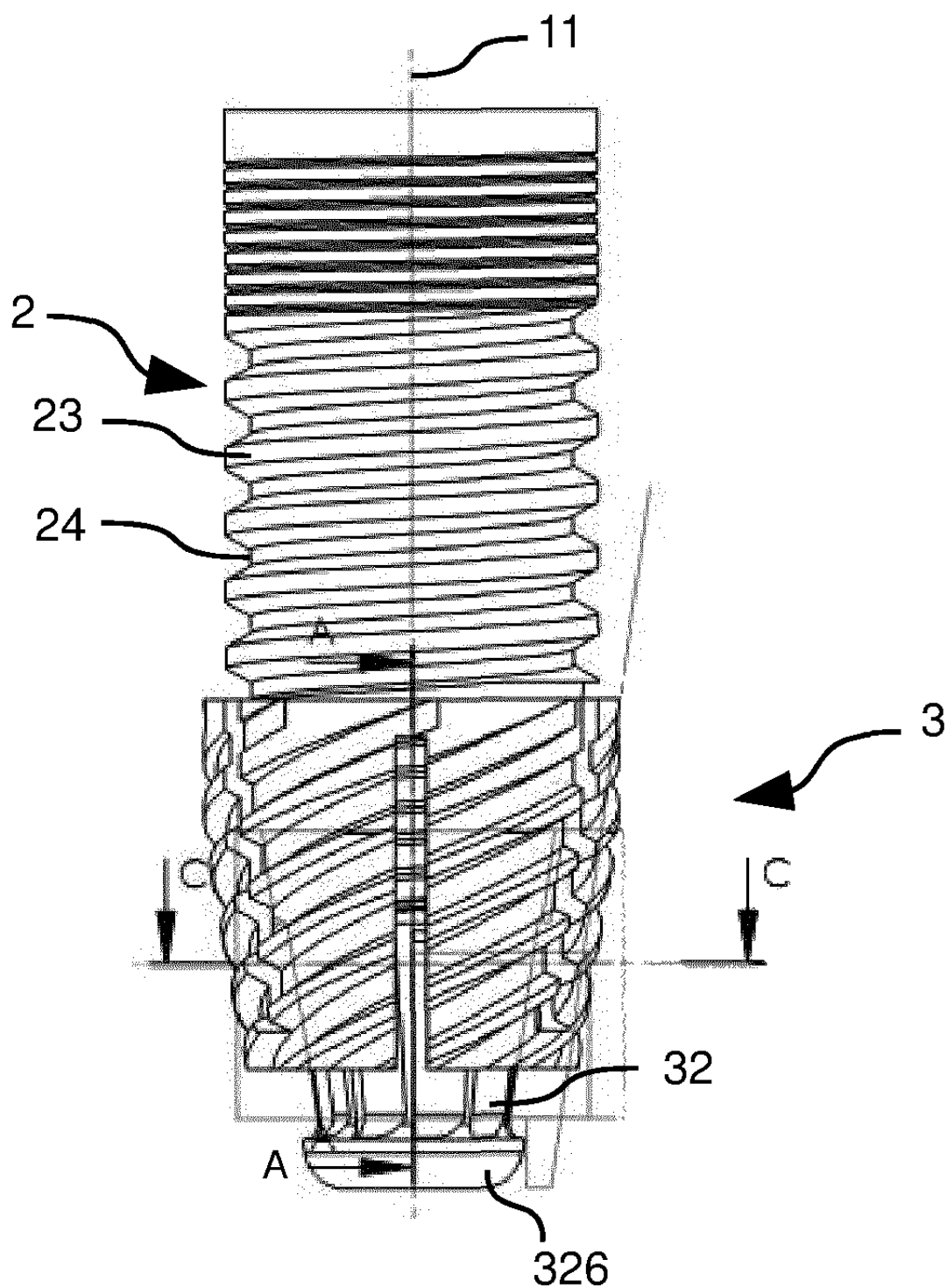
ORTHOFIX

Family 4/44 - FAMPAT - ©Questel

Title

(EP2603163)

Endosseous implant having improved anchorage**Images**



Publication data including kind & date

FR2965473	A1	2012-04-06	FR2965473
WO2012/045787	A1	2012-04-12	WO201245787
EP2603163	A1	2013-06-19	EP2603163
FR2965473	B1	2013-08-09	FR2965473
US20140148864	A1	2014-05-29	US20140148864
EP2603163	B1	2017-04-12	EP2603163
ES2632347	T3	2017-09-12	ES2632347
US9788920	B2	2017-10-17	US9788920
EP2603163	B8	2018-04-18	EP2603163



Abstract

(EP2603163)

The invention relates to an **endosseous** implant capable of being implanted into osseous tissue. The implant comprises an attachment device (3), comprising: a so-called portion (31) for hooking into the osseous tissue; a so-called expansion portion (32), said two portions being movable relative to one another; engaging mechanical connection means (33, 33a, 33b), arranged on the engaging portion (31) and on the expansion portion (32), such that the relative mobility of the two parts has at least one degree of freedom, and such that a relative movement of said two parts causes an enlargement of the engaging portion, said enlargement causing the engaging portion to engage with the osseous tissue. The **endosseous** implant can be used in particular in the dental field.

Inventors

LACAZE GUILLAUME

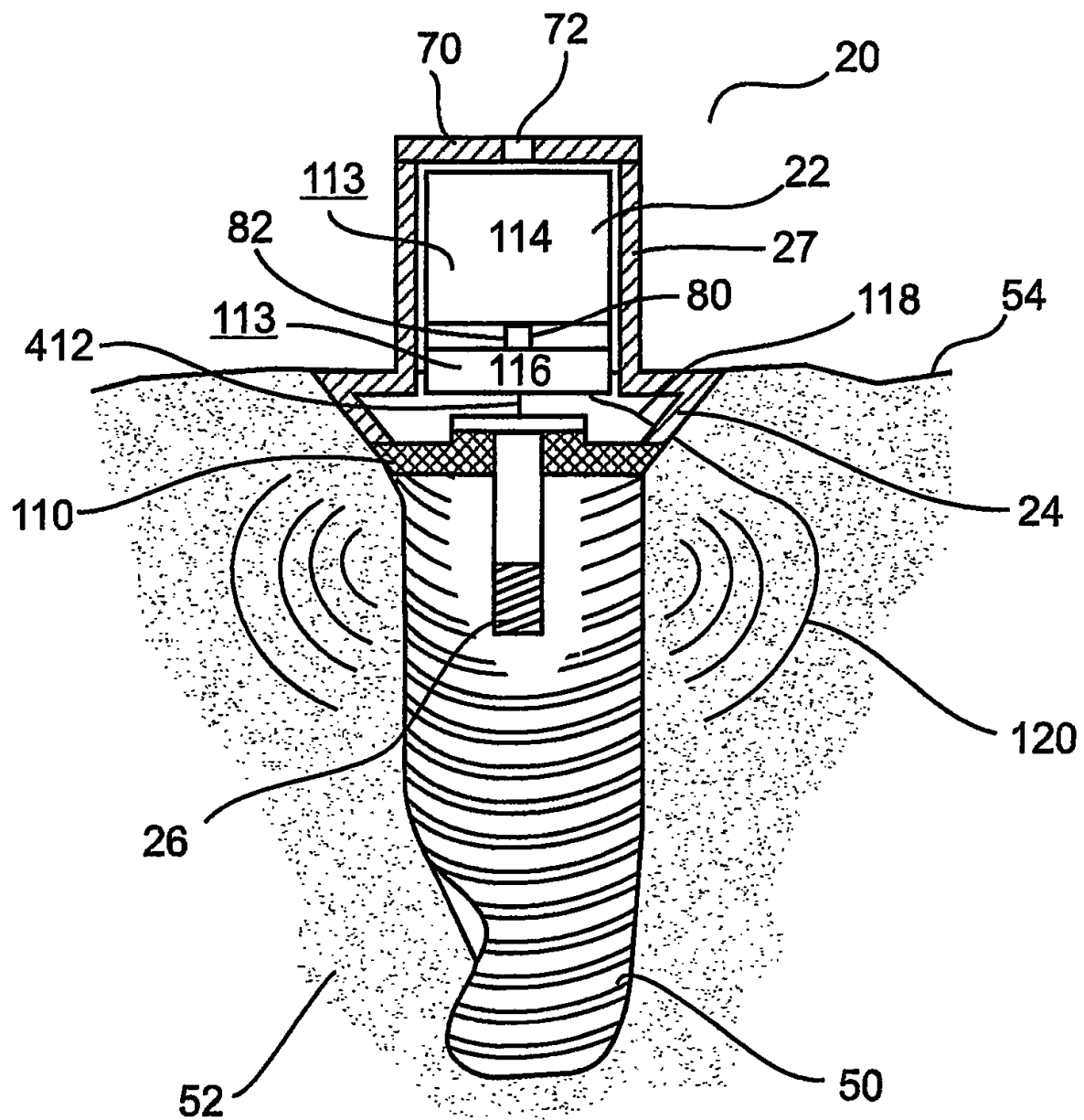
Latest standardized assignees - inventors removed

ALTADE

Family 5/44 - FAMPAT - ©Questel

Title

(EP2361589)

Self powered osteogenesis and osseointegration promotion and maintenance device for **endosseous** implants**Images**

IL154184	A	2003-07-31	IL-154184				
WO2004/066851	A2	2004-08-12	WO200466851				
CA2514389	A1	2004-08-12	CA2514389				
WO2004/066851	A3	2004-10-28	WO200466851				
EP1592352	A2	2005-11-09	EP1592352				
US20060265026	A1	2006-11-23	US20060265026				
IL169907	A	2007-07-04	IL-169907				
US7917223	B2	2011-03-29	US7917223				
EP2361589	A1	2011-08-31	EP2361589				
US20110238132	A1	2011-09-29	US20110238132				

Abstract

(EP2361589)

A dual-function abutment (20) comprising a top section (70) configured for attachment to a temporary dental crown, a substantially conically shaped middle section (22) exhibiting a top plane defining the conical base and a side envelope (27) extending away from said top plane towards a bottom of said middle section (24), the diameter of said top section no more than the diameter of the conical base of said middle section, an electrical insulating separator (110) secured to the bottom of said middle section, a metallic bottom **screw** section (26) extending through said electrical insulating separator (110), said metallic bottom **screw** section (26) mechanically coupled to, and electrically insulated from said middle section by said electrical insulating separator (110), and an electrical stimulation mechanism (113) constituted of a power source (114) and an electronic device (116) in communication with the power source, said electrical stimulation mechanism (113) exhibiting a pair of electrical contacts of opposing polarity, a first of said electrical contacts electrically connected to said metallic bottom **screw** (26), and a second of said electrical contacts connected to said middle section (24), said top section (22), middle section (24), electrical insulating separator (110) and metallic bottom **screw** section (26) together forming an enclosure of a sealed inner space, said electrical stimulation mechanism (113) ensconced within said sealed inner space, wherein said electrical stimulation mechanism (113) is arranged to provide stimulation signals in an external electrical path including said middle section (22) and an implant connected to said metallic bottom **screw** section.

Inventors

MADJAR DAVID

NATHAN MENACHEM

PELED EMANUEL

TERKEL HANAN

Latest standardized assignees - inventors removed

CELLECTRIC MEDICAL

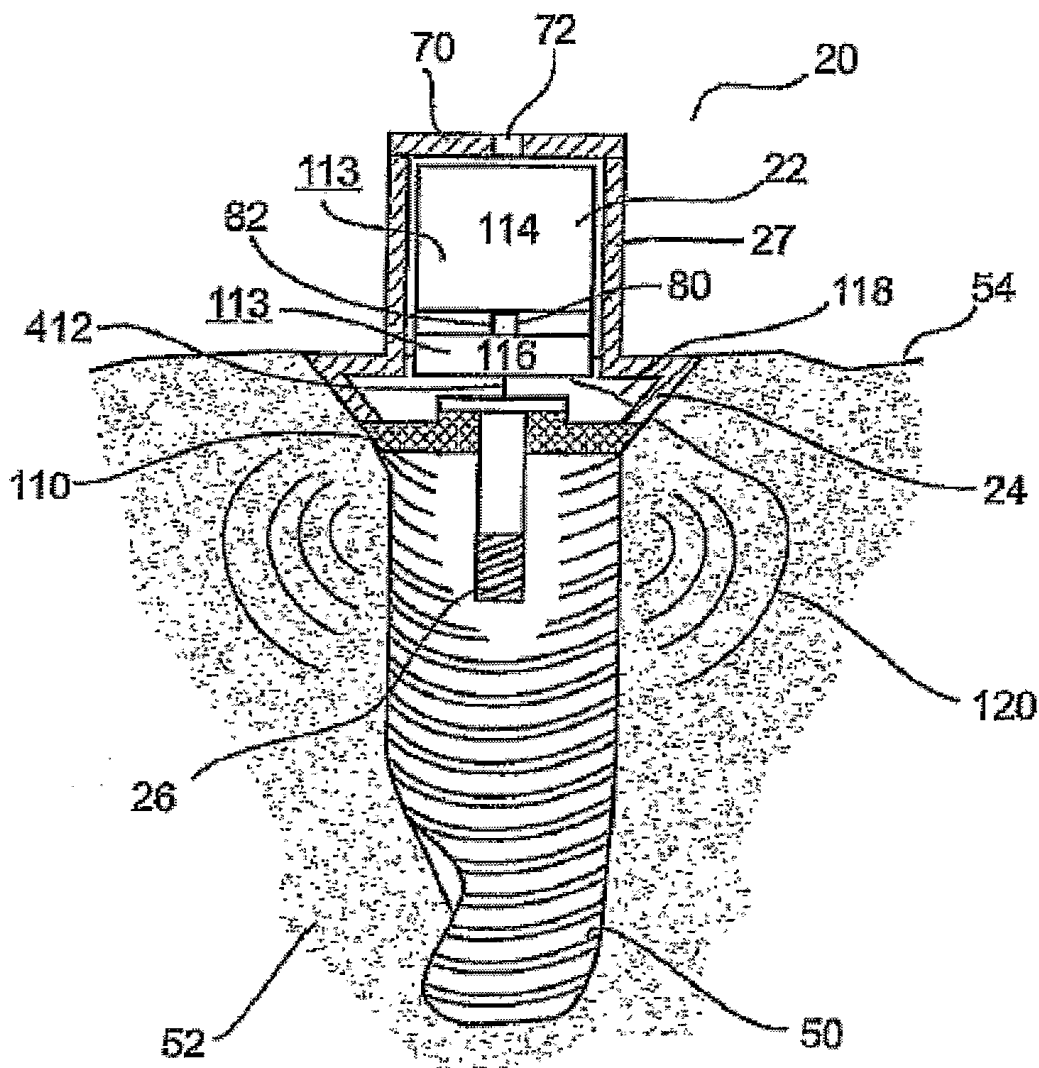
Family 6/44 - FAMPAT - ©Questel

Title

(EP2183017)

Disposable osteogenesis and osseointegration promotion and maintenance device for **endosseous** implants

Images



Publication data including kind & date

WO2009/019688	A2	2009-02-12	WO200919688
WO2009/019688	A3	2010-03-04	WO200919688
EP2183017	A2	2010-05-12	EP2183017
IN0213/MUMNP/2010	A	2010-08-13	IN2010MN00213
IL203731	A	2010-10-31	IL-203731
US20120276501	A1	2012-11-01	US20120276501



Abstract

(EP2183017)

A disposable osteogenesis and osseointegration promotion and maintenance device that includes : a dental abutment; a stimulation circuit positioned within a space defined at least partially by the dental abutment; and at least one externally disposed electrode that is spaced apart from a dental implant that is connected to the dental abutment; wherein each electrically disposed electrode is connected to an electrical component selected from a group consisting of a battery and a stimulation circuit

Inventors

TERKEL HANAN
MADJAR DAVID

Latest standardized assignees - inventors removed

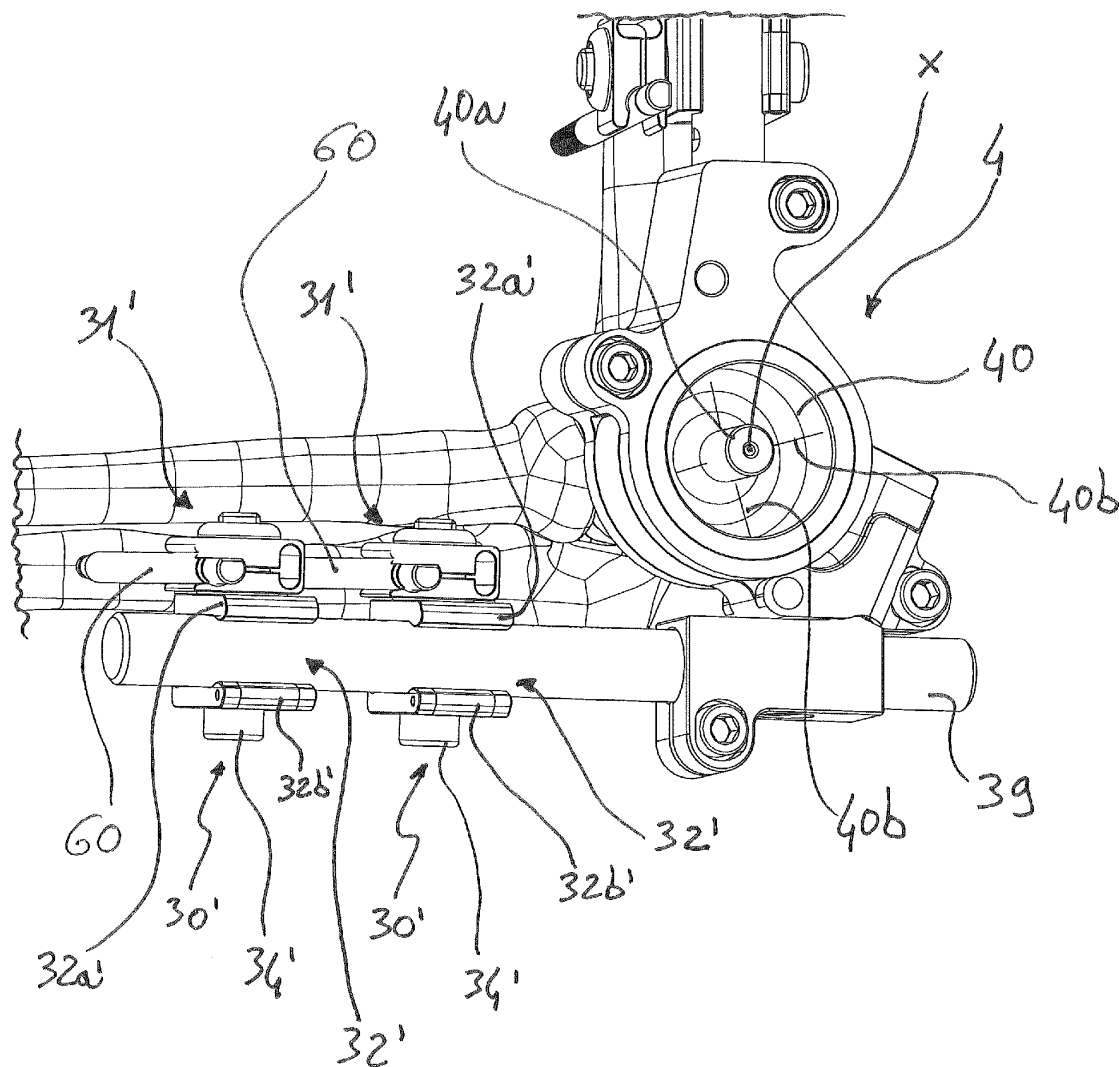
CELLECTRIC MEDICAL

Family 7/44 - FAMPAT - ©Questel

Title

(EP2672908)

External orthopaedic fixator for the elbow joint

Images**Publication data including kind & date**

US20120209266	A1	2012-08-16	US20120209266
CA2823606	A1	2012-08-16	CA2823606
WO2012/107061	A1	2012-08-16	WO2012107061
AU2011358378	A1	2013-05-02	AU2011358378
AR085159	A1	2013-09-11	AR--85159
CO6761341	A2	2013-09-30	CO6761341
IL227876	A	2013-09-30	IL-227876
CN103370020	A	2013-10-23	CN103370020
MX2013008960	A	2013-11-04	MX2013008960
EP2672908	A1	2013-12-18	EP2672908
US8721641	B2	2014-05-13	US8721641
JP2014512855	A	2014-05-29	JP2014512855
IN6559/CHENP/2013	A	2014-08-01	IN2013CN06559



BR112013020351	A1	2014-08-12	BR112013020351				
EP2672908	B1	2014-11-05	EP2672908				
DK2672908	T3	2015-02-09	DK2672908T				
ES2529123	T3	2015-02-17	ES2529123				
AU2011358378	B2	2015-04-09	AU2011358378				
HK1186949	A1	2015-07-24	HK1186949				
CN103370020	B	2016-03-02	CN103370020B				
JP6103773	B2	2017-03-29	JP6103773				
BR112013020351	A2	2017-07-18	BR112013020351				
IL227876	B	2018-03-29	IL-227876				
CA2823606	C	2018-10-16	CA2823606				

Abstract

(EP2672908)

An external orthopaedic fixator (1) for elbow joints comprising: proximal anchoring means (2) intended to be integrally associated to a proximal bone (100) of a patient's upper limb; distal anchoring means (3) intended to be integrally associated to a distal bone (101) of a patient's upper limb; an articulator (4) hinging together said proximal (2) and distal (3) anchoring means along a hinging axis (x), intended to be positioned in correspondence with an elbow joint (102) connecting said proximal (100) and distal (101) bones; said articulator (4) comprising a radiotransparent centering window (40) intended to frame the elbow joint (102) when positioning the external orthopaedic fixator (1), said hinging axis (x) passing through said centering window (40).

Inventors

OTTOBONI ANDREA

VENTURINI DANIELE

Latest standardized assignees - inventors removed

ORTHOFIX

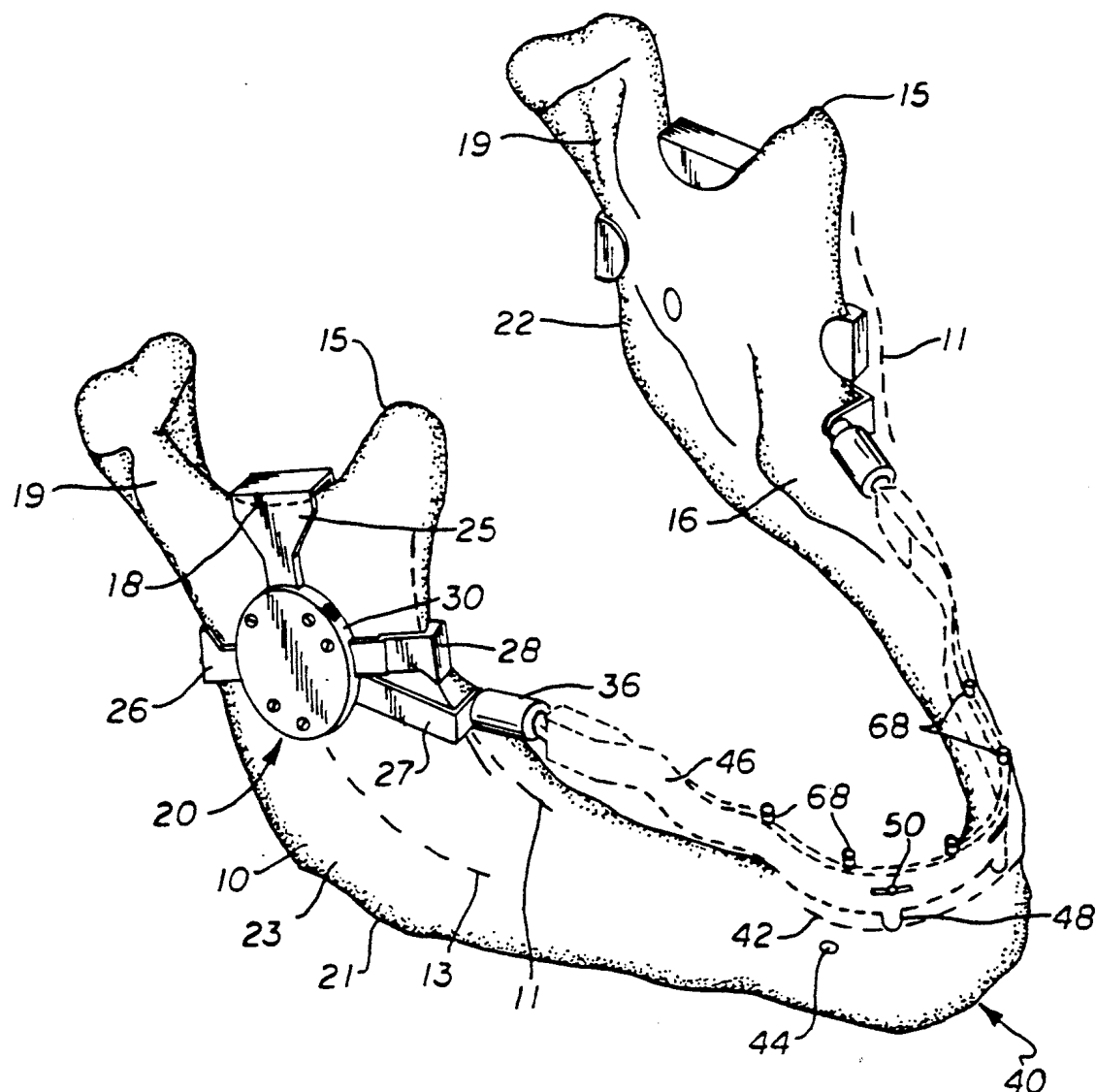
Family 8/44 - FAMPAT - ©Questel

Title

(US5580247)

Clamping means for securing surgical implant

Images



Publication data including kind & date

US5306150	A	1994-04-26	US5306150
US5580247	A	1996-12-03	US5580247



Abstract

(US5580247)

In today's dentistry, alternative approaches to the problem of mandibular reconstruction are important in restoring the mandible, which may have been lost through tumor resections, bone defects, pseudoarthrosis or osteomyelitis. Also for use in those situations in which the condyle or condylar process must be rebuilt or replaced, where portions of the condylar process such as the head, neck, and pterygoid fovea may have deteriorated through disease or from accidental injury. A condylar process arm may be fabricated as a substitute bearing surface for the defective natural condylar process.

Inventors

GITTLEMAN NEAL

Family 9/44 - FAMPAT - ©Questel

Title

(EP2670340)

Systems, apparatus and methods for implementing implants

Images

EA028861	B1	2018-01-31	EA--28861
BR112013019637	A1	2018-04-03	BR112013019637
BR112013019637	A2	2018-07-17	BR112013019637



Abstract

(EP2670340)

A system, apparatuses, devices, kits and processes are provided to enhance bone Implants. The bone implant includes one or more bone attachment components (1) for securing the implant into a bone (10) and a head component (2) independent of and separable from the bone attachment components' 1. In one embodiment each bone attachment component (1) includes an internally threaded bore hole sleeve (1b) for receiving a connector component (4); wherein the head component (2) is adapted so as to be secured to the one or more bone attachment components (1:) at the time of initial implantation of the bone attachment components 1 and the head component (2) into the bone (10); wherein the head component (2) is adapted to be oriented relative to at least one of the one or more bone -attachment components (1) at a predetermined tilt angle,, so that the implant generally conforms with a 'natural root structure (28c) of a missing tooth.

Inventors

SANDERS DANIEL

Latest standardized assignees - inventors removed

MID

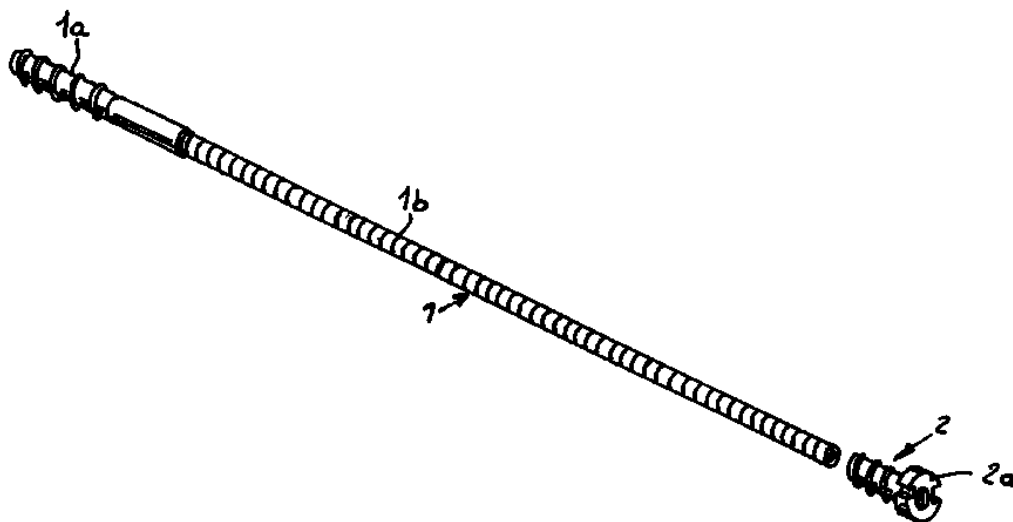
Family 10/44 - FAMPAT - ©Questel

Title

(FR2699065)

Self-compressing **screw** for treating bone end fractures - comprises hollow threaded rod with distal tip and bush with self-tapping surfaces

Images



Publication data including kind & date

FR2699065	A1	1994-06-17	FR2699065
FR2699065	B1	1995-03-10	FR2699065



Abstract

(FR2699065)

The **screw** comprises a hollow rod (1) which can be fitted onto a guide pin, with its distal end having a self-tapping tip (1a) for anchoring in the spongy tissue of the bone. The remainder of the rod has a threaded surface (1b) of smaller and finer pitch which can receive a threaded bush (2). The bush has the same internal thread as the rod and an external thread of larger pitch, but slightly smaller than that of the distal tip (1a). The bush is shaped to receive a key which rotates and tensions it. The bush can be in different shapes, depending on the type of bone fragments to be joined, and the rod can be

of any length, e.g. cut to length after fitting. USE/ADVANTAGE - For treating bone end fractures. Assembled from small range of standardised components.

Inventors

HARDY JEAN-MARIE

Family 11/44 - FAMPAT - ©Questel

Title

(EP3380020)

Implantable objects, guiding devices, and methods of use thereof

Images

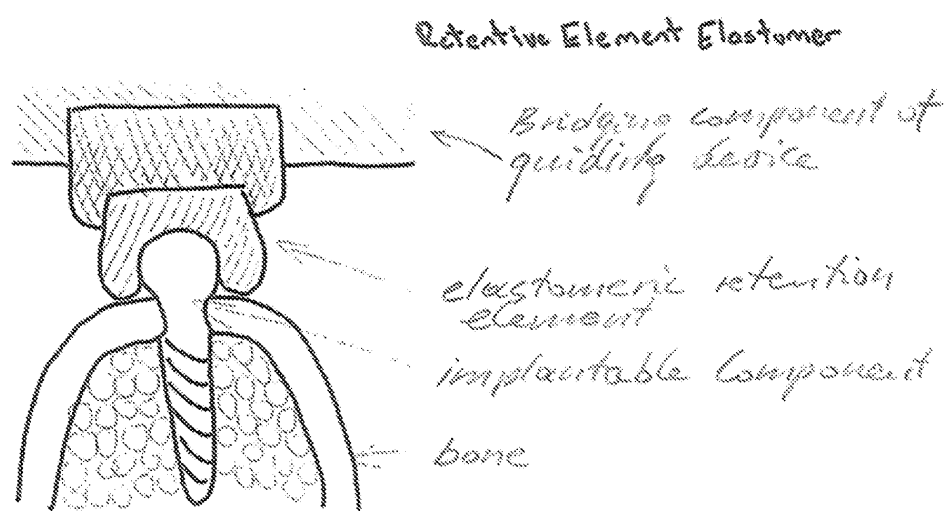


FIG. 6A

Publication data including kind & date

WO2017/091748	A1	2017-06-01	WO201791748
WO2017/091748	A8	2018-08-16	WO201791748
EP3380020	A1	2018-10-03	EP3380020



Abstract

(EP3380020)

Embodiments of the disclosure relate to implantable objects and guiding devices, as well as recipient site preparation instruments, bone-implantable materials, and methods of fabrication and use thereof.

Inventors

KAY GEORGE W

HESS BRIAN J

Latest standardized assignees - inventors removed

LAUNCHPAD MEDICAL

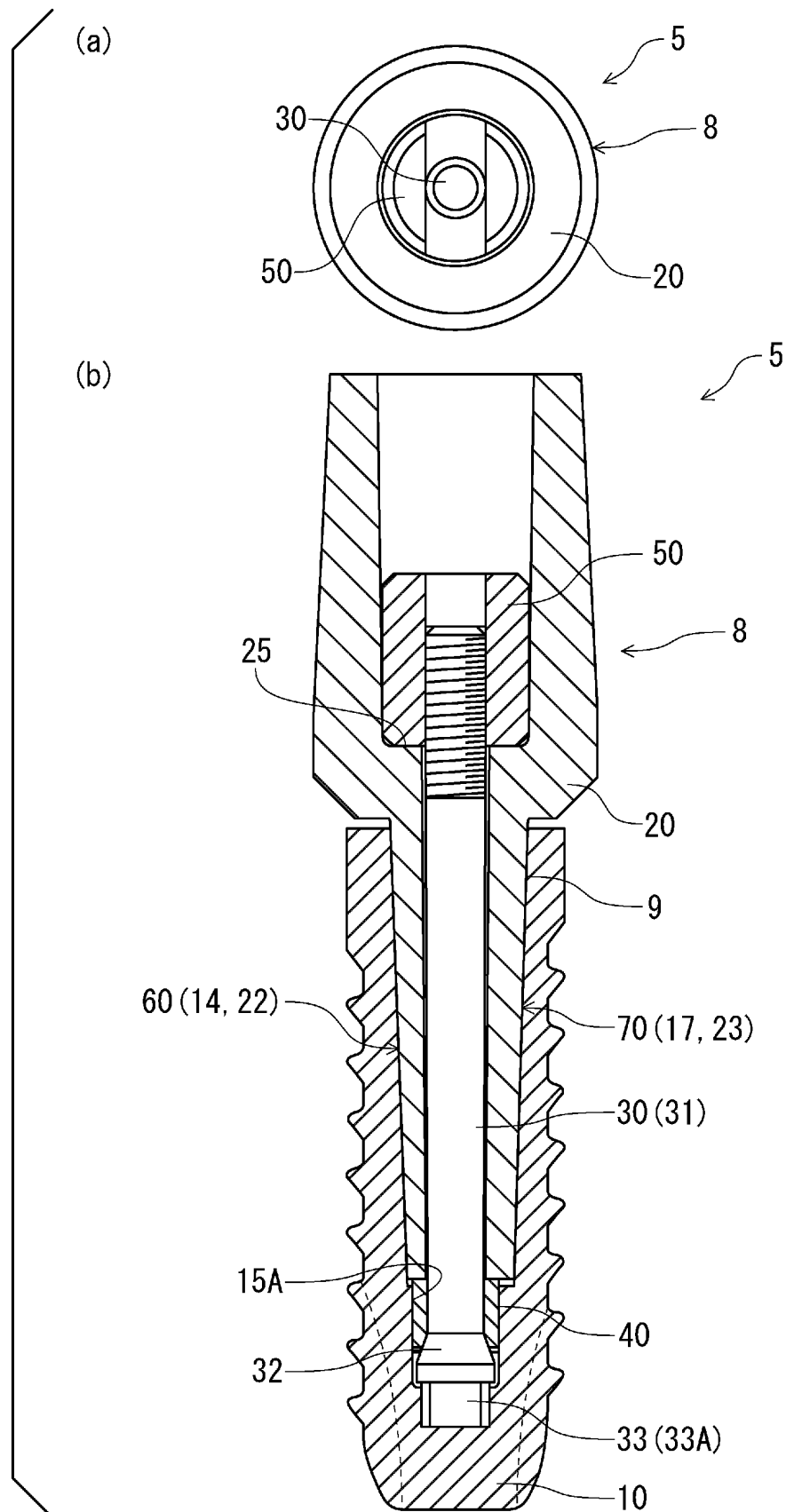
Family 12/44 - FAMPAT - ©Questel

Title

(WO201702223)

Implant, fixture, abutment, base-end-side bone component, and tip-end-side bone component

Images



Publication data including kind & date

[WO2017/002223](#)

A1 2017-01-05

WO201702223

[JPWO2017002223](#)

A1 2017-07-13

JP2017002223W



Abstract

(WO201702223)

This implant (5) is provided with: a ceramic implant body (10) which is fixed to a bone (2); a ceramic connection body (20)

provided with a contact part (22) which comes into contact with a part (14) to be contacted formed in the implant body (10); and a sealing body (9) which is disposed between the contact part (22) and the part (14) to be contacted, and which seals in an abrasion powder formed from the contact part (22) and the part (14) to be contacted. The sealing body is disposed in an area which does not come into contact with the bone (2). The sealing body (9) is affixed to the part (14) to be contacted and/or the contact part (22).

Inventors

Takeo Ishiata

Latest standardized assignees - inventors removed

NANTOH

Family 13/44 - FAMPAT - ©Questel

Title

(EP3226788)

Orthopedic external fixation system for the treatment of complex fractures under precarious surgical environmental conditions

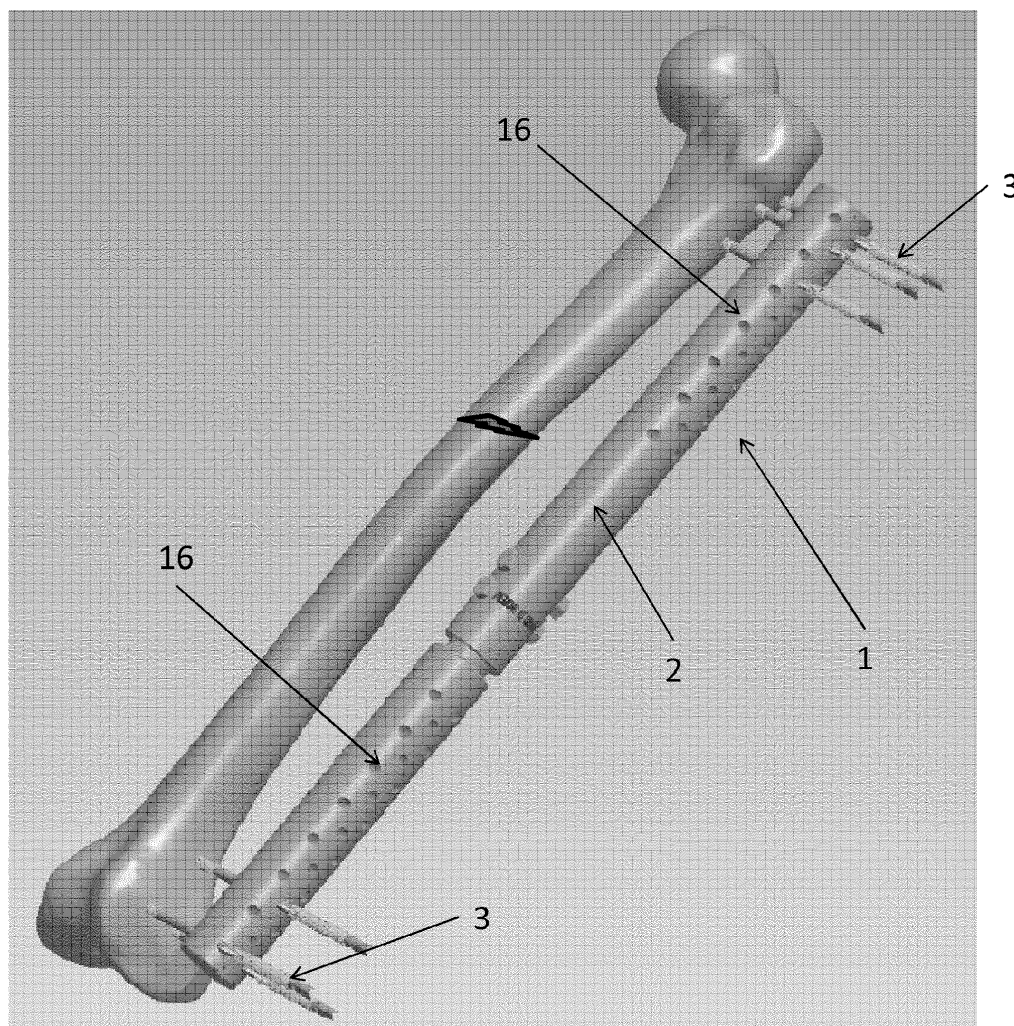
Images

Fig. 1

Publication data including kind & date[WO2016/087347](#)

A1 2016-06-09

WO201687347

[EP3226788](#)

A1 2017-10-11

EP3226788

**Abstract**

(EP3226788)

The present invention relates to an integrated orthopedic external fixation system (1), for the treatment of complex or displaced fractures under precarious environmental conditions, of the type comprising an external fixator (2, 2') and a

plurality of bone screws (3, 3') for fixing the fixator to a fractured long bone. Advantageously, the system (1) according to the present invention comprises: a pair of cylindrical portions (4, 5) interconnected coaxially together by means of interlocking connection means (6, 7) able to adjust the movement towards and away from each other of these portions (4, 5); a plurality of through-holes (16, 16') formed transversely with respect to the axis (X) of the body of the fixator (2, 2') and at a predefined distance from the opposite free ends (21, 22) of the fixator (2, 2'), for receiving a respective bone **screw** (3, 3'); each bone **screw** (3, 3') having a smooth cylindrical central section and being slidably engaged in a guided manner inside the corresponding hole (16, 16') of the body of the fixator (2, 2'); a threaded front tip portion, intended to come into screwing engagement with said long bone, in a substantially self-tapping manner; and a threaded rear tail portion intended to come into screwing engagement with the corresponding hole (16, 16') of the fixator body (2, 2'), in a substantially self-tapping manner.

Inventors

VENTURINI DANIELE

MARINI GRAZIANO

Latest standardized assignees - inventors removed

ORTHOFIX

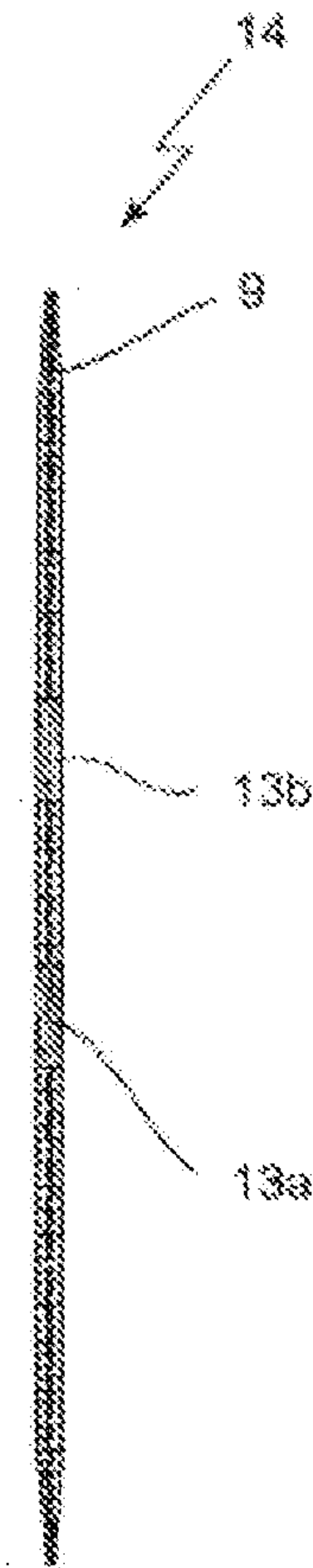
Family 14/44 - FAMPAT - ©Questel

Title

(EP2459122)

Prosthetic ligament for transverse fixation, and production method

Images



Publication data including kind & date

WO2011/012783	A1	2011-02-03	WO201112783				
CA2769254	A1	2011-02-03	CA2769254				
FR2948556	A1	2011-02-04	FR2948556				
AU2010277461	A1	2012-03-29	AU2010277461				
EP2459122	A1	2012-06-06	EP2459122				
CN102625680	A	2012-08-01	CN102625680				
FR2948556	B1	2012-08-31	FR2948556				
US20120253461	A1	2012-10-04	US20120253461				
IN1536/DELNP/2012	A	2013-10-11	IN2012DN01536				
AU2010277461	B2	2013-10-31	AU2010277461				
EP2459122	B1	2014-09-10	EP2459122				
ES2524159	T3	2014-12-04	ES2524159				
CA2769254	C	2017-08-22	CA2769254				

Abstract

(EP2459122)

Prosthetic ligament (11) for replacing a natural articular ligament, comprising a first intraosseous end part (12), called the tibial end part, and a second intraosseous end part (12'), called the femoral end part, the two intraosseous end parts (12, 12') surrounding an intraarticular central part (13), characterized in that the first intraosseous end part (12) is in the form of two cylindrical strands (12a, 12b), and in that the second intraosseous end part (12') forms a loop connected to the first intraosseous end part (12) via the intraarticular central part (13), which is composed of at least two bundles (13a, 13b) of technical filaments, each of the bundles (13a, 13b) being connected to the first intraosseous end part (12) at one of its ends and to the second intraosseous end part (12') at the other of its ends.

Inventors

BRULEZ BERNARD

LABOUREAU JACQUES-PHILIPPE

Latest standardized assignees - inventors removed

L A R S LABORATOIRE D APPLICATION & DE RECHERCHE SCIENTIFIQUE

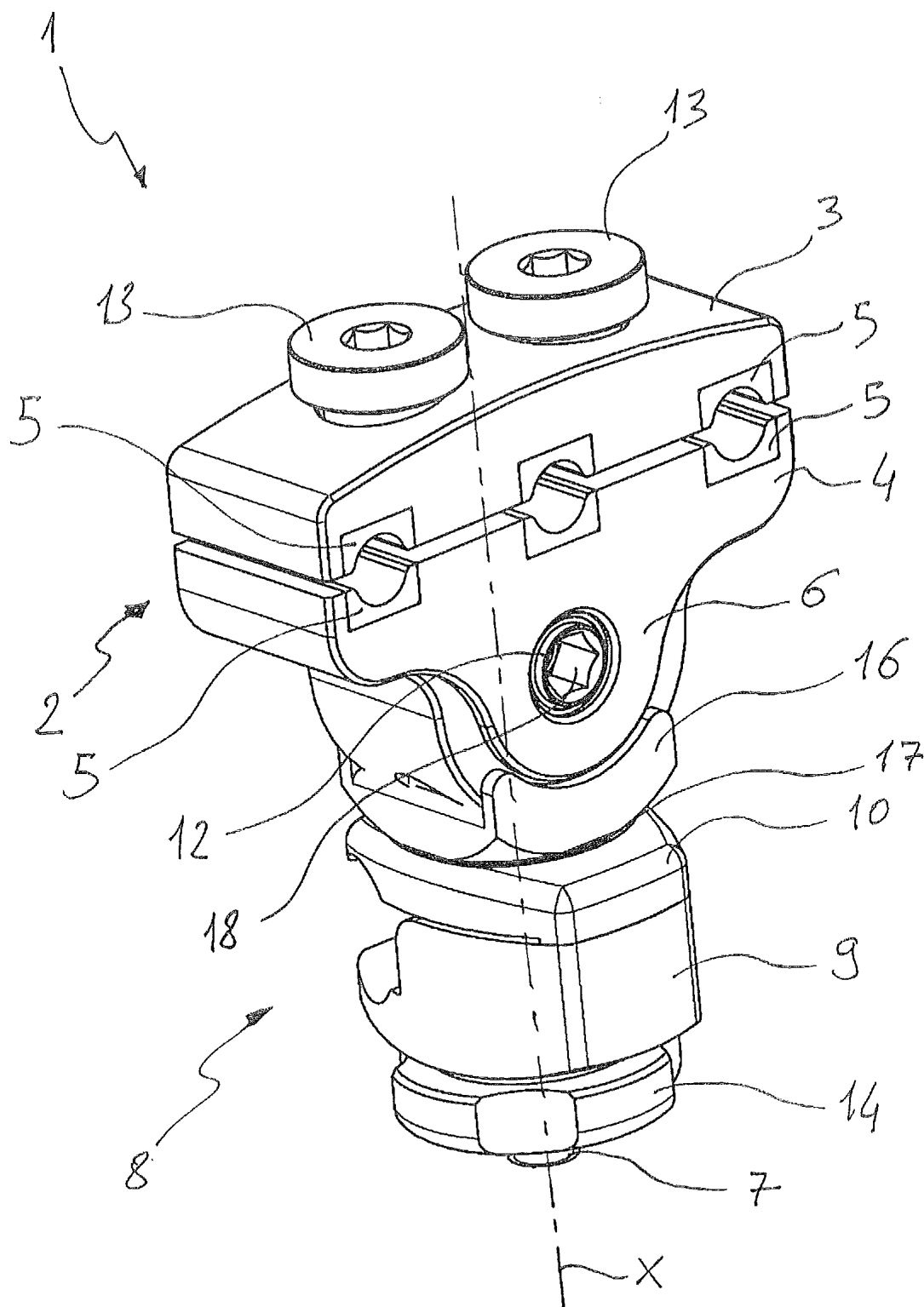
Family 15/44 - FAMPAT - ©Questel

Title

(EP2672907)

Clamp for temporary or definitive external orthopaedic fixation, and external fixation system comprising said clamp

Images



Publication data including kind & date

US20120209264	A1	2012-08-16	US20120209264
CA2823579	A1	2012-08-16	CA2823579
WO2012/107060	A1	2012-08-16	WO2012/107060
AU2011358377	A1	2013-05-02	AU2011358377
AR085061	A1	2013-08-07	AR--85061
US8540713	B2	2013-09-24	US8540713
IL227875	A	2013-09-30	IL-227875
CN103354734	A	2013-10-16	CN103354734
MX2013008959	A	2013-11-04	MX2013008959
CO6801665	A2	2013-11-29	CO6801665



EP2672907	A1	2013-12-18	EP2672907				
US20140025077	A1	2014-01-23	US20140025077				
US8728079	B2	2014-05-20	US8728079				
JP2014512854	A	2014-05-29	JP2014512854				
IN6556/CHENP/2013	A	2014-08-01	IN2013CN06556				
BR112013020335	A1	2014-08-12	BR112013020335				
AU2011358377	B2	2014-11-13	AU2011358377				
EP2672907	B1	2015-07-01	EP2672907				
DK2672907	T3	2015-09-14	DK2672907T				
ES2546178	T3	2015-09-21	ES2546178				
HK1186948	A1	2016-02-26	HK1186948				
CN103354734	B	2016-03-02	CN103354734B				
JP6031046	B2	2016-10-28	JP6031046				
BR112013020335	A2	2017-07-18	BR112013020335				
IL227875	B	2018-03-29	IL-227875				
CA2823579	C	2018-10-16	CA2823579				

Abstract

(EP2672907)

Clamp (1) that can advantageously be applied to both temporary and definitive orthopaedic external fixation systems comprising: - a first coupling element (2), comprising a pair of opposite jaws (3, 4) together defining one or more seats able to house at least a first component of the orthopaedic external fixation system; - a second coupling element (8), comprising a pair of opposite jaws (9, 10) together defining one or more seats able to house at least a second component of the orthopaedic external fixation system; - an interconnection pin (7) passing through and connecting the first (2) and second (8) coupling elements along a main axis of rotation (x); - fastening means arranged to bring the clamp (1) from a slack configuration, wherein the first (2) and second coupling elements (8) are relatively rotatable at least along the main axis of rotation (x), to a locked configuration, wherein the first (2) and second coupling elements (8) are relatively rotatable with each other; these fastening means dividing in - temporary fastening means, which can be manually operated, to temporarily lock the clamp (1); - definitive fastening means, which can be operated by means of a fastening tool, to definitively lock the clamp (1).

Inventors

ZANDON ENRICO

LORENZINI DENIS

VENTURINI DANIELE

NAYAGAM SELVADURAI

ASSOM MARCO

Latest standardized assignees - inventors removed

ORTHOFIX

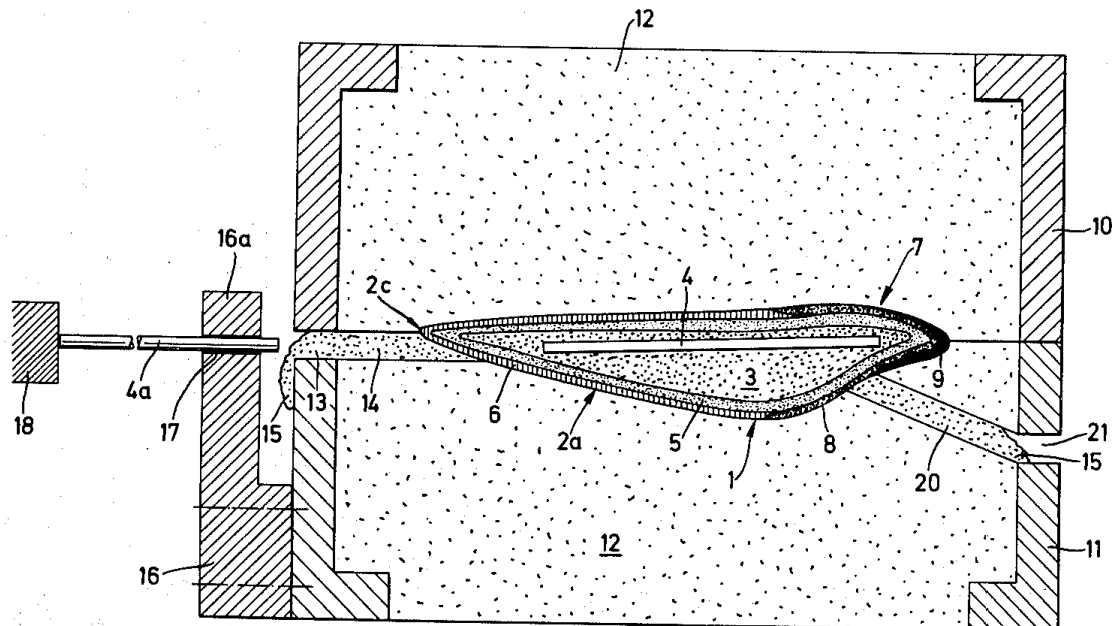
Family 16/44 - FAMPAT - ©Questel

Title

(US4321042)

Ceramic dental implant

Images



Publication data including kind & date

BE852491	A	1977-07-01	BE-852491
SE7603291	A	1977-09-17	SE7603291
DE2711219	A1	1977-09-29	DE2711219
DE2639887	A1	1977-09-29	DE2639887
AU2324477	A	1978-09-21	AU7723244
ATA170877	A	1979-08-15	AT7701708
AT355711	B	1980-03-25	AT-355711
SE414399	B	1980-07-28	SE-414399
GB1573130	A	1980-08-13	GB1573130
FR2474480	A1	1981-07-31	FR2474480
AU519024	B2	1981-11-05	AU-519024
FR2482082	A1	1981-11-13	FR2482082
CA1113970	A	1981-12-08	CA1113970
US4321042	A	1982-03-23	US4321042
CH634219	A5	1983-01-31	CH-634219
DE2711219	C2	1985-04-11	DE2711219
IT1107716	B	1985-11-25	IT1107716
DE2639887	C2	1986-09-25	DE2639887



Abstract

(US4321042)

A dental implant having a sintered and porous surface and comprising a biocompatible ceramic matrix and, intermixed therein, inorganic fibers.

Inventors

SCHEICHER HANS

Latest standardized assignees - inventors removed

SCHEICHER HANS

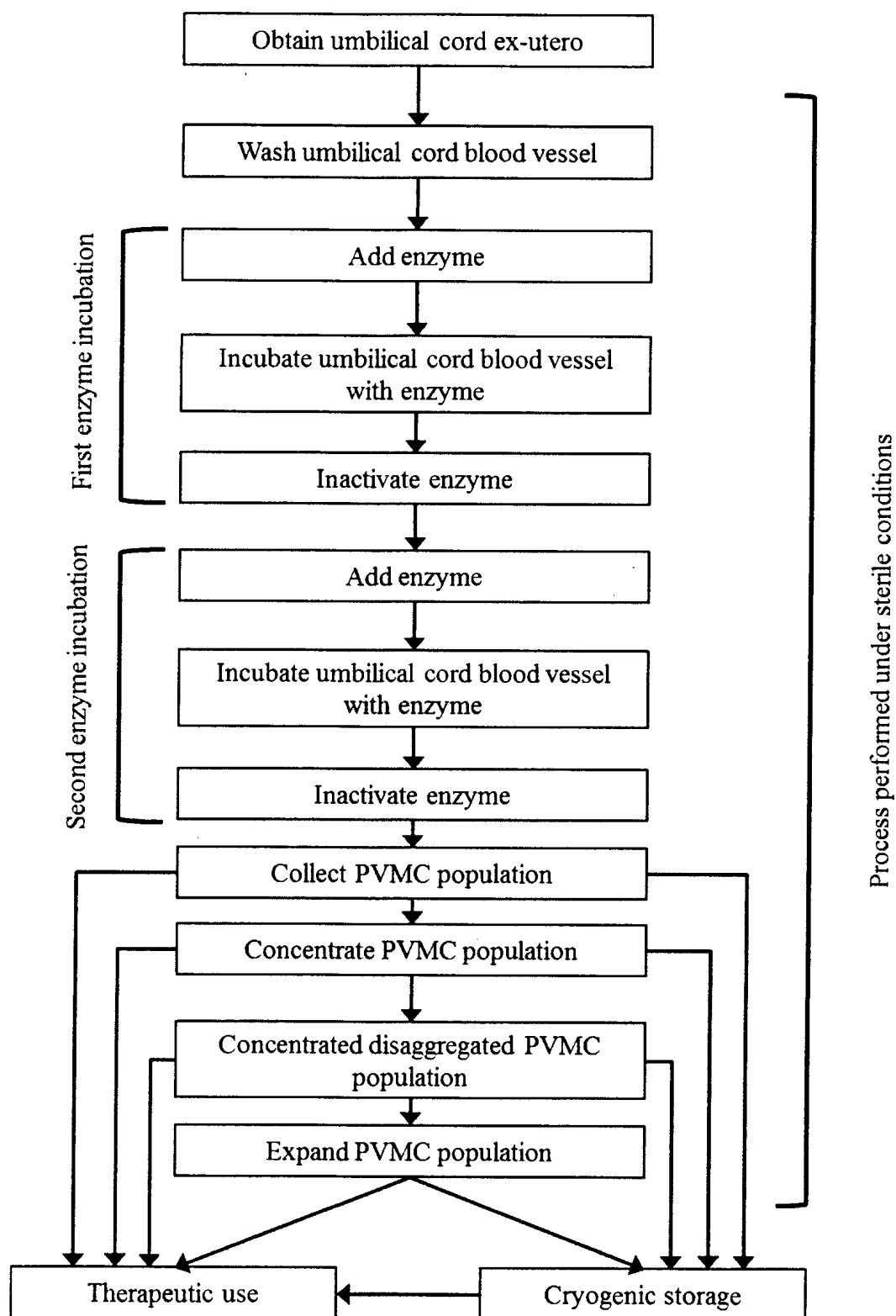
Family 17/44 - FAMPAT - ©Questel

Title

(EP2751256)

Isolating and therapeutic use of perivascular medicinal cells

FIGURE 1



	A1	2013-03-07	WO201333043				
AU2012300221	A1	2014-04-17	AU2012300221				
EP2751256	A1	2014-07-09	EP2751256				
SG11201401038V	A	2014-07-30	SG11201401038V				
US20140314869	A1	2014-10-23	US20140314869				
JP2014529406	A	2014-11-13	JP2014529406				
EP2751256	A4	2015-01-28	EP2751256				

Abstract

(EP2751256)

Disclosed are perivascular medicinal cells (PVMCs), methods of isolating PVMCs, and a composition comprising PVMCs having medicinal capabilities. Specifically, the disclosure provides a method of isolating PVMCs from an umbilical cord blood vessel or from bone. The disclosure further provides a method of making an enhanced, autologous bone graft, a method of stimulating bone regeneration comprising administering a therapeutically effective amount of bone-derived PVMCs, a method of reconstructing bone tissue, and methods of treating a disease that affects cellular function. PVMCs capable of secreting a site-dependent trophic factor are also described.

Inventors

CAPLAN ARNOLD I

Latest standardized assignees - inventors removed

SAFEGUARD CELL TECHNOLOGY

Family 18/44 - FAMPAT - ©Questel

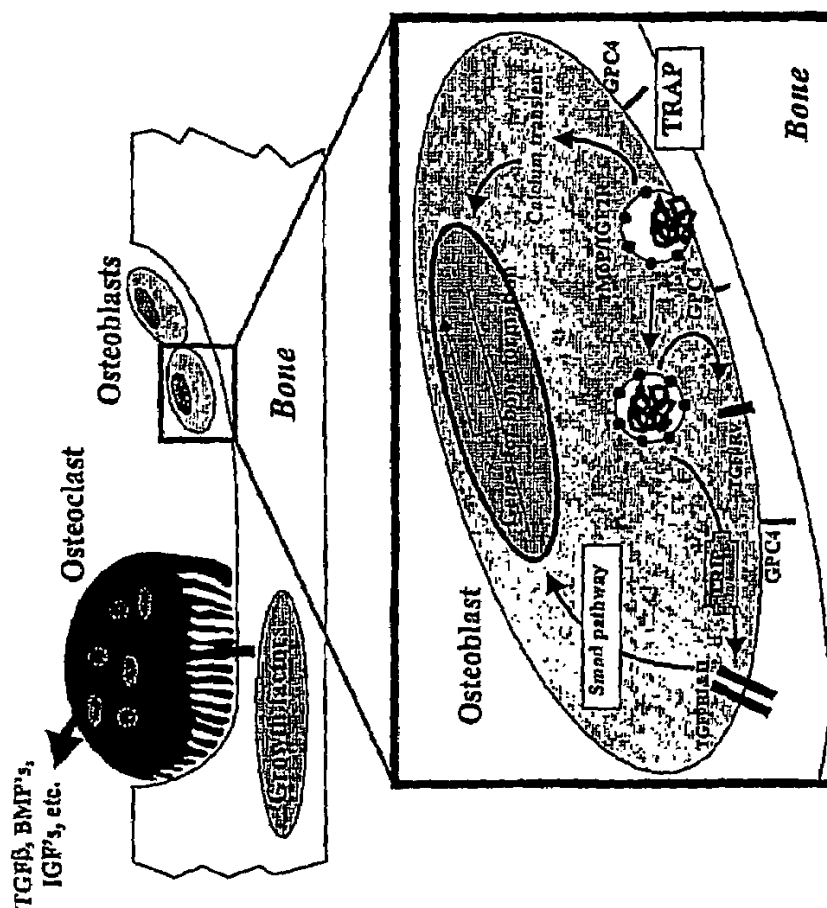
Title

(WO200324408)

Compositions and methods involved in bone growth

Images

Figure 1.



Publication data including kind & date

WO03/024408	A2	2003-03-27	WO200324408
AU2002331890	A1	2003-04-01	AU2002331890
WO03/024408	A3	2003-12-11	WO200324408
WO03/024408	A9	2004-04-15	WO200324408
WO03/024408	A8	2004-05-27	WO200324408
US20050112168	A1	2005-05-26	US20050112168
US7241732	B2	2007-07-10	US7241732



Abstract

(WO200324408)

Disclosed are compositions and methods for related to osteoblasts, osteoclasts, and osteoclast lacunae.

Inventors

PUZAS J EDWARD

Latest standardized assignees - inventors removed

UNIVERSITY OF ROCHESTER

Family 19/44 - FAMPAT - ©Questel

Title

(EP1296726)

Osteogenic implants derived from bone

Images



Publication data including kind & date

WO02/02156	A2	2002-01-10	WO200202156				
CA2415061	A1	2002-01-10	CA2415061				
AU7015301	A	2002-01-14	AU200170153				
US20020035401	A1	2002-03-21	US20020035401				
WO02/02156	A3	2002-05-23	WO200202156				
EP1296726	A2	2003-04-02	EP1296726				
KR20030027934	A	2003-04-07	KR20030027934				
JP2004501719	A	2004-01-22	JP2004501719				
EP1296726	B1	2004-02-04	EP1296726				
NZ523867	A	2004-02-27	NZ-523867				
DE60101967	D1	2004-03-11	DE60101967				
TR200400527	T4	2004-07-21	TR200400527				
DE60101967	T2	2004-07-22	DE60101967				
ES2215913	T3	2004-10-16	ES2215913				
US6808585	B2	2004-10-26	US6808585				
US6863694	B1	2005-03-08	US6863694				
AU2001270153	B2	2006-07-06	AU2001270153				
CA2415061	C	2010-11-02	CA2415061				

Abstract

(EP1296726)

An osteogenic osteoimplant in the form of a flexible sheet comprising a coherent mass of bone-derived particles, the osteoimplant having a void volume not greater than about 32 % and a method of making an osteogenic osteoimplant having not greater than about 32 % void volume, the method comprising: providing a coherent mass of bone-derived particles; and, mechanically shaping the coherent mass of bone-derived particles to form an osteogenic osteoimplant in the form of a flexible sheet.

Inventors

BOYCE TODD M

KAES DAVID

SCARBOROUGH NELSON L

Latest standardized assignees - inventors removed

WARSAW ORTHOPEDIC

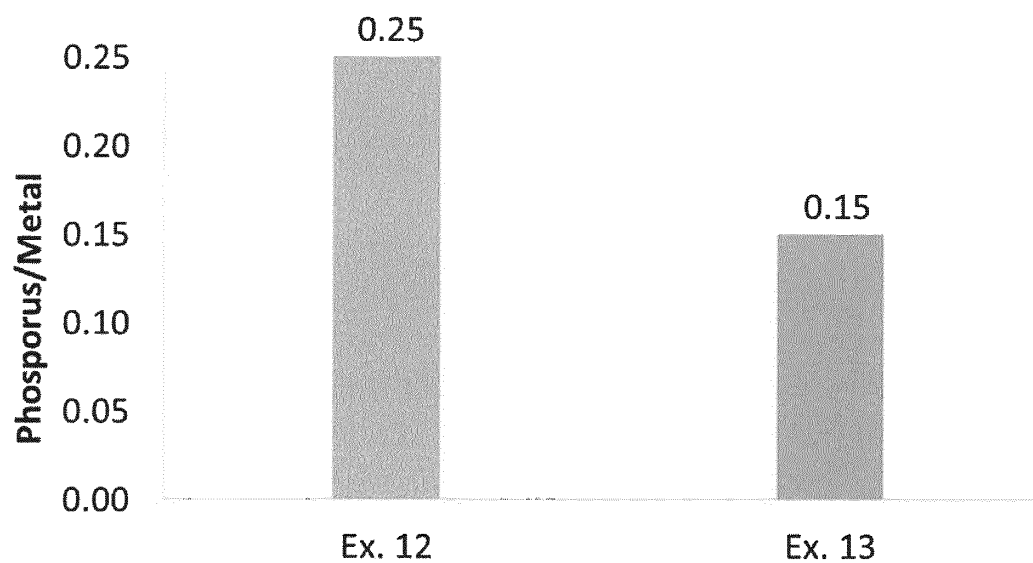
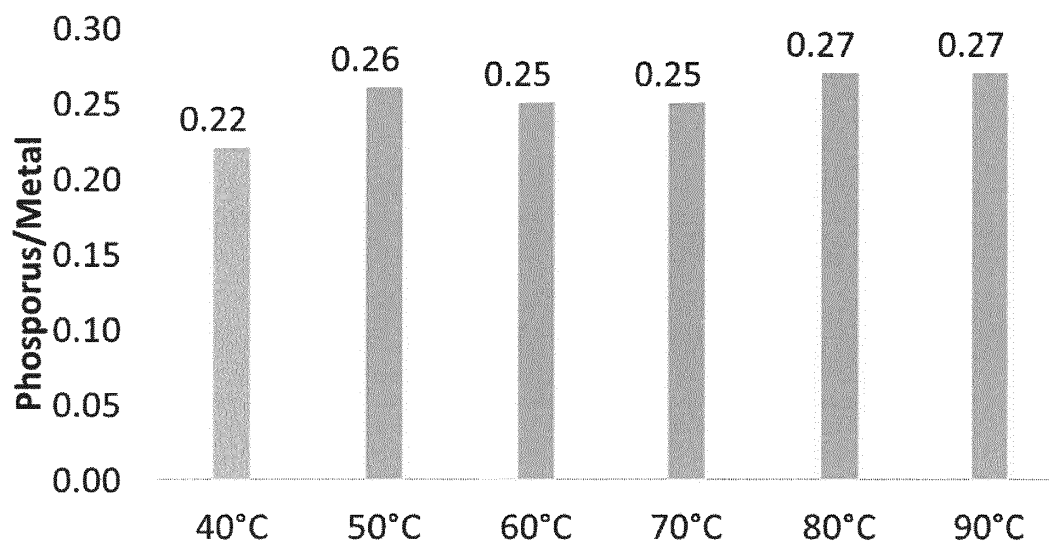
Family 20/44 - FAMPAT - ©Questel

Title

(EP3413934)

Improved treatment of implants with phosphonic acid compounds

Images

Fig. 1**Example 14****Fig. 2****Example 15****Publication data including kind & date**

CA3013841	A1	2017-08-17	CA3013841
WO2017/137623	A1	2017-08-17	WO2017137623
BR112018016328	A1	2018-08-21	BR112018016328
AU2017217275	A1	2018-08-23	AU2017217275
SG11201806692S	A	2018-09-27	SG11201806692S
KR20180111996	A	2018-10-11	KR20180111996



IL261078	A	2018-10-31	IL-261078				
IN201817030192	A	2018-11-23	IN201817030192				
EP3413934	A1	2018-12-19	EP3413934				
CN109195641	A	2019-01-11	CN109195641				
BR112018016328	A2	2019-01-22	BR112018016328				
EA201891821	A1	2019-01-31	EA201891821				
US20190038802	A1	2019-02-07	US20190038802				
JP2019506279	A	2019-03-07	JP2019506279				

Abstract

(EP3413934)

The present invention relates to a process of treating an implant, comprising a step of treating the surface of the implant with at least one phosphonic acid compound or a pharmaceutically acceptable salt, ester or amide thereof under sonication at a temperature of about 50°C to about 90°C. This process is highly advantageous in that it allows the formation of a monolayer of the phosphonic acid compound on the implant surface, having a particularly dense surface coverage which, in turn, results in an improved implant biocompatibility and improved osseointegration. The invention further relates to a surface-treated implant obtainable by this process and, in particular, it provides an implant having a surface made of a metal, a metal alloy or a ceramic, wherein a phosphonic acid compound or a pharmaceutically acceptable salt, ester or amide thereof is bound to the surface of the implant and forms a monolayer having an implant surface coverage, in terms of the ratio of the phosphorus content to the metal content as determined by X-ray photoelectron spectroscopy (XPS), of at least 70% of a reference maximum surface coverage.

Inventors

BUCHINI SABRINA

CURNO RICHARD

ARONSSON BJÖRN-OWE

PÉCHY PÉTER

Latest standardized assignees - inventors removed

NANO BRIDGING MOLECULES

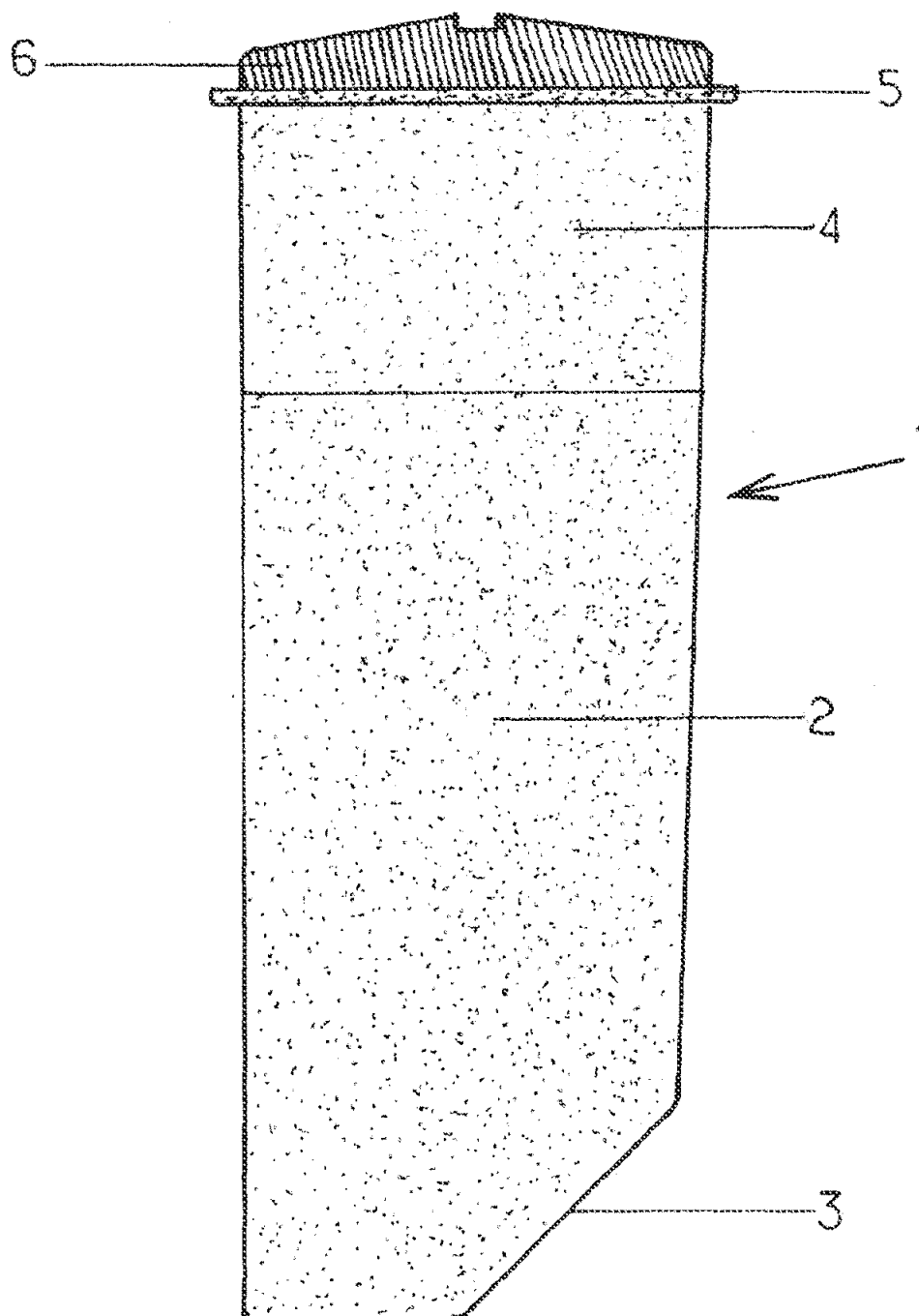
Family 21/44 - FAMPAT - ©Questel

Title

(EP2442838)

Method for preparing mechanically structured mother-of-pearl by mechanosynthesis, mechanically structured mother-of-pearl produced thereby, and the applications thereof

Images



Publication data including kind & date

WO2010/146308	A1	2010-12-23	WO2010146308
CA2765930	A1	2010-12-23	CA2765930
FR2946888	A1	2010-12-24	FR2946888
US20110004218	A1	2011-01-06	US20110004218
FR2946888	B1	2011-07-29	FR2946888
AU2010261594	A1	2012-01-19	AU2010261594
IL216935	A	2012-02-29	IL-216935
MX2012000030	A	2012-04-19	MX2012000030
EP2442838	A1	2012-04-25	EP2442838
KR20120089624	A	2012-08-13	KR20120089624



CN102802687	A	2012-11-28	CN102802687				
JP2012529949	A	2012-11-29	JP2012529949				
BRPI1015555	A1	2012-12-04	BR201015555				
IN9728/CHENP/2011	A	2013-05-31	IN2011CN09728				
US8485458	B2	2013-07-16	US8485458				
RU2012101418	A	2013-07-27	RU2012101418				
AU2010261594	B2	2013-11-28	AU2010261594				
EP2442838	B1	2015-04-08	EP2442838				
IL216935	B	2015-05-31	IL-216935				
DK2442838	T3	2015-07-06	DK2442838T				
RU2555766	C2	2015-07-10	RU2555766				
ES2540808	T3	2015-07-13	ES2540808				
HRP20150685	T1	2015-08-14	HRP20150685				
PT2442838	E	2015-08-20	PT2442838				
BRPI1015555	A2	2016-04-26	BR201015555				
HUE026050	T2	2016-05-30	HUE026050				
KR101699914	B1	2017-02-08	KR101699914				
CN102802687	B	2017-08-15	CN102802687B				
CA2765930	C	2017-09-05	CA2765930				
JP6246467	B2	2017-12-13	JP6246467				
JP2018038809	A	2018-03-15	JP2018038809				
BRPI1015555	B1	2018-07-03	BR201015555				

Abstract

(EP2442838)

The invention relates to a method for preparing mechanically structured mother-of-pearl by mechanosynthesis of micrometric mother-of-pearl powder, characterised in that the temperature of the mother-of-pearl is maintained lower than 40°C. The invention also relates to the mechanically structured mother-of-pearl and to the applications thereof, especially to implants and replacement osseous parts on which the mechanically structured mother-of-pearl is deposited.

Inventors

CAMPRASSE SERGE

CAMPRASSE GEORGES

Latest standardized assignees - inventors removed

MEGA BIO PHARMA

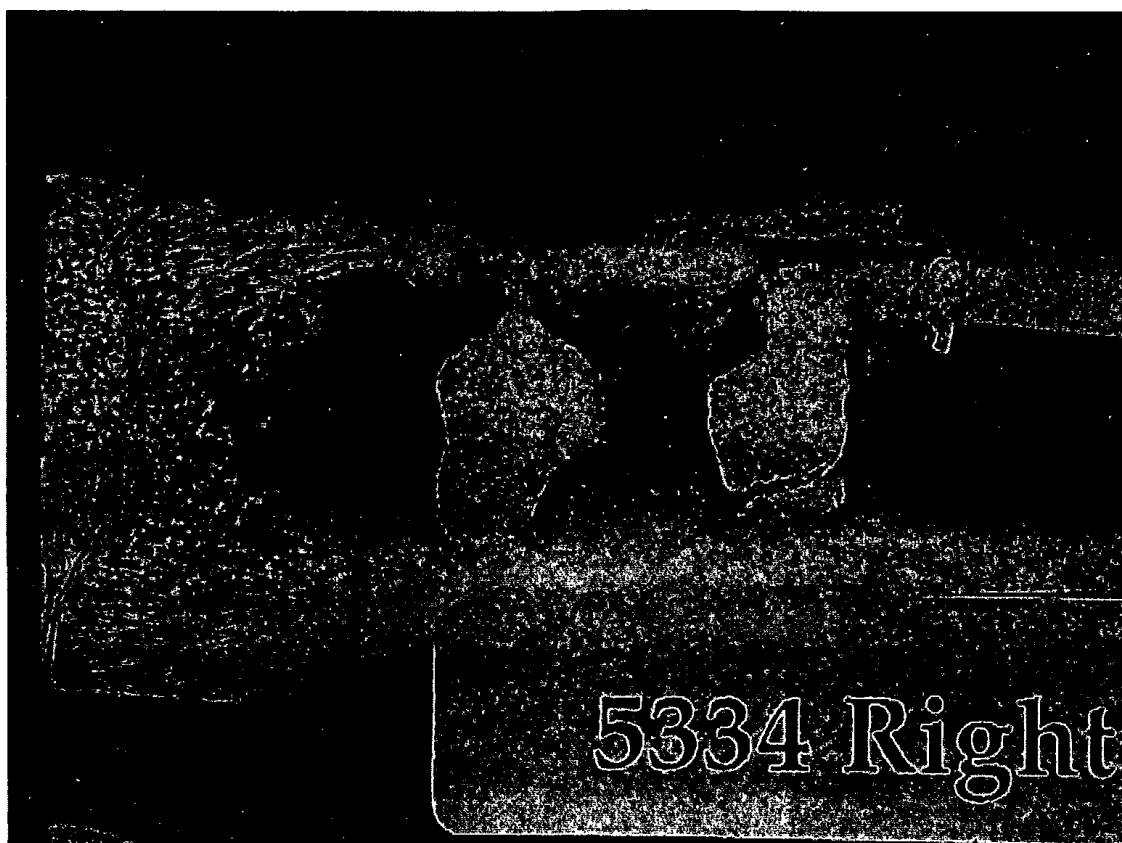
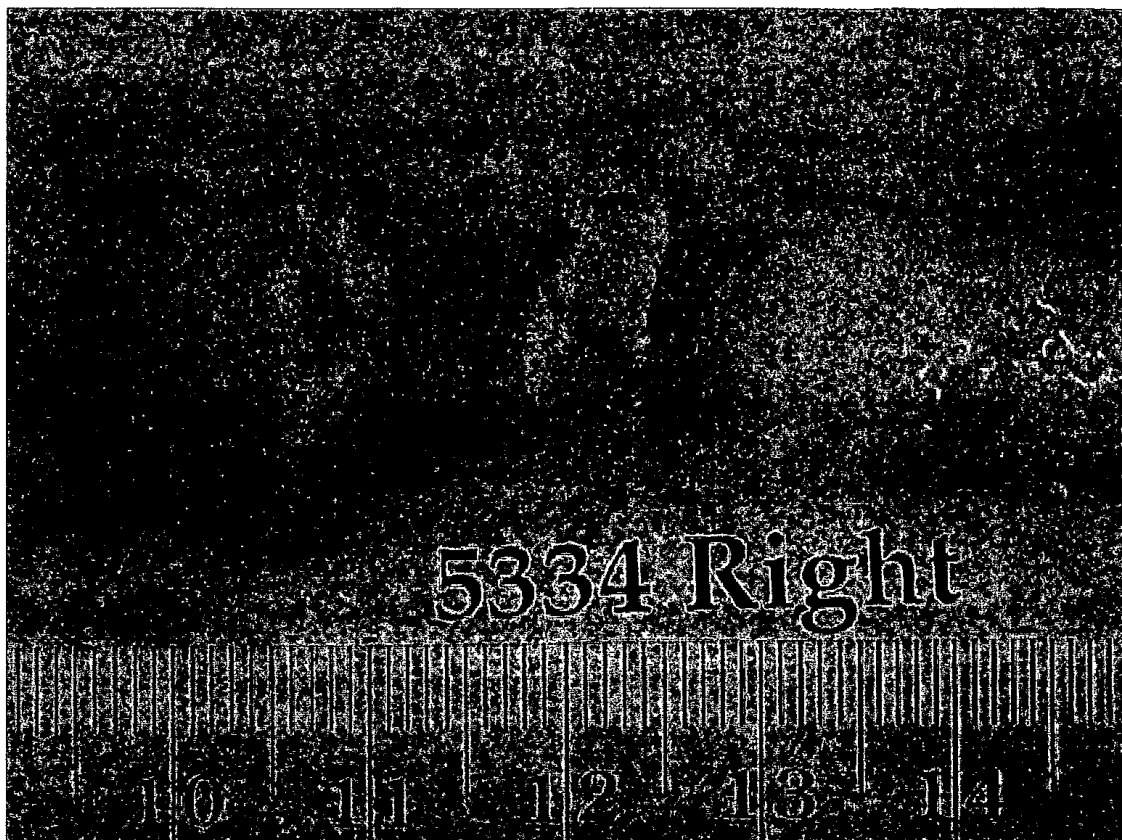
Family 22/44 - FAMPAT - ©Questel

Title

(EP1446445)

Pore-forming agents for orthopedic cements

Images

**Publication data including kind & date**

WO03/024316	A2	2003-03-27	WO200324316
CA2460843	A1	2003-03-27	CA2460843
WO03/024316	A3	2003-12-31	WO200324316
EP1446445	A2	2004-08-18	EP1446445
JP2005508217			



	A	2005-03-31	JP2005508217
AU2002327007	B2	2005-10-20	AU2002327007
EP1446445	A4	2007-04-04	EP1446445

**Abstract**

(EP1446445)

A bone precursor composition comprising a cement mixture and a pore-forming agent is provided for bone implant. Preferably, the pore-forming agent has a particle size of 20-500 μm . More preferably, the proportion of the pore-forming agent is 7-40% (w/w). The composition may further include a bioactive agent, preferably a bone morphogenic protein or nucleic acid encoding BMP encapsulated in the pore-forming agent. The moldability of the composition can be modulated by the addition of a binder. The invention provides a kit and implant device comprising the bone precursor composition. The invention also provides an implantable prosthetic device comprising a prosthetic implant having a surface region and a bone precursor material disposed on the surface region. The kit and devices may further comprise one or more additional components including a bioactive agent and a binder. Methods of inducing bone formation and delivering the bioactive agent are provided.

Inventors

DALAL PARESH S

LANDERYOU TRACY J

TOTH CAROL ANN

KULKARNI SHAILESH C

Latest standardized assignees - inventors removed

STRYKER

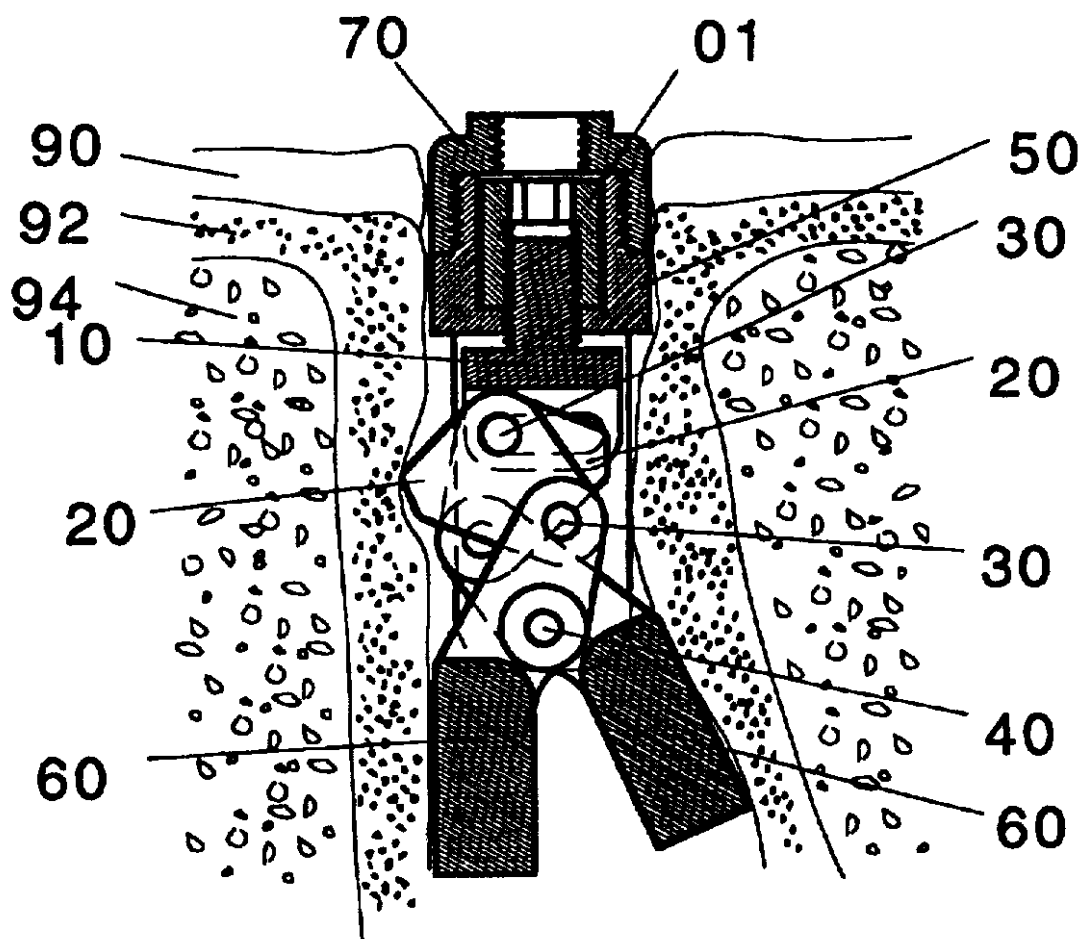
Family 23/44 - FAMPAT - ©Questel

Title

(EP-955926)

Fasteners having coordinated self-seeking conforming members and uses thereof

Images



Publication data including kind & date

WO97/11651	A1	1997-04-03	WO9711651
CA2232999	A1	1997-04-03	CA2232999
AU7383196	A	1997-04-17	AU9673831
EP0955926	A1	1999-11-17	EP-955926



Abstract

(EP-955926)

Fasteners having coordinated self-seeking conforming members for implanting into a cavity such as a hole, tube, or hard tissue defect are provided. An actuator mechanism translates applied force to conform members (60) of a plurality of members to the cavity. The fasteners may be used for implanting a prosthetic device into hard tissue of humans or animals, for anchoring a device while the device is being worked on, or for centering a device in a hole or tube, such as in well technology. The mechanism operates expanding members (60) so that they independently or dependently conform and apply a controlled and known pressure to surrounding materials.

Inventors

FOX WILLIAM CASEY

Latest standardized assignees - inventors removed

BIOMEDICAL ENTERPRISES

Family 24/44 - FAMPAT - ©Questel

Title

(EP3092014)

Method for manufacturing osteosynthesis devices, osteosynthesis devices and implants made of semi-synthetic hybrid material obtained by structural modification of the components of a natural marine biomaterial

Images

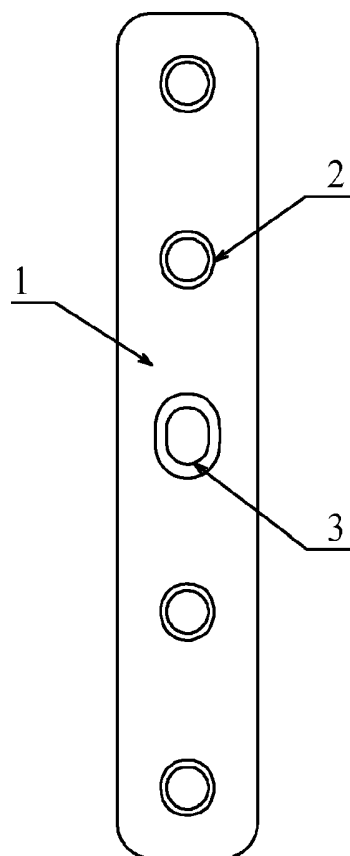


Figure 1a

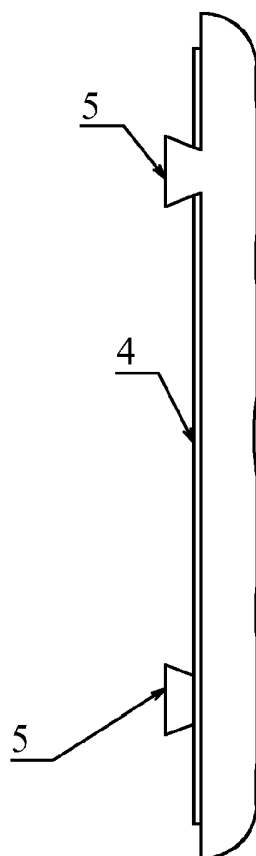


Figure 1b

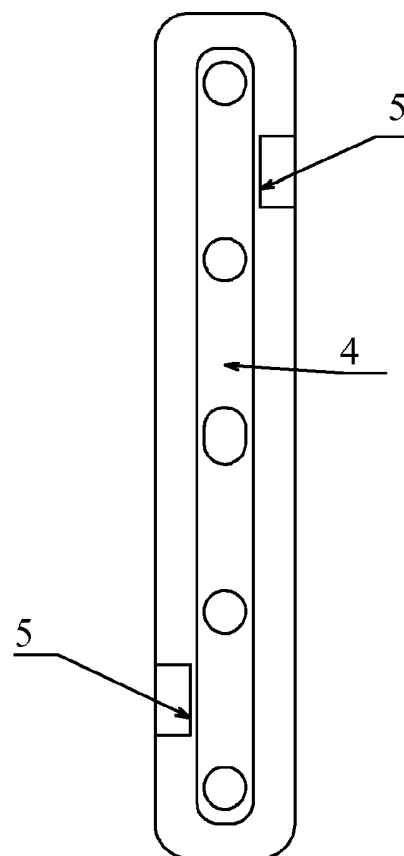
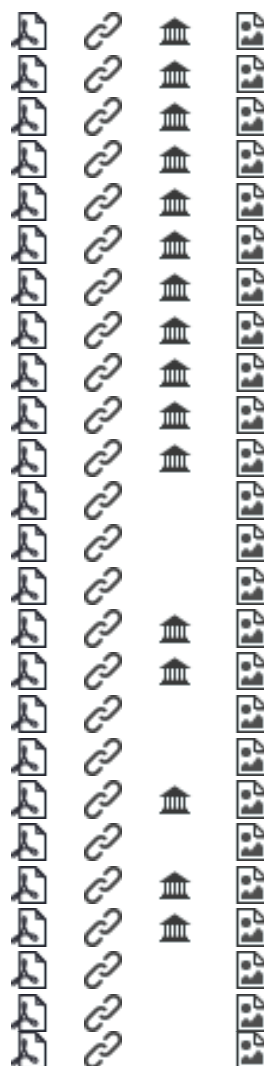


Figure 1c

Publication data including kind & date

CA2936475	A1	2015-07-16	CA2936475
WO2015/104502	A1	2015-07-16	WO2015104502
FR3016293	A1	2015-07-17	FR3016293
BR112016015989	A1	2016-07-19	BR112016015989
AU2015205476	A1	2016-07-21	AU2015205476
IL246649	A	2016-08-31	IL-246649
IN201617023632	A	2016-08-31	IN201617023632
KR20160130221	A	2016-11-10	KR20160130221
CN106132449	A	2016-11-16	CN106132449
EP3092014	A1	2016-11-16	EP3092014
JP2017503627	A	2017-02-02	JP2017503627
PH12016501346	A1	2017-02-06	PH12016501346
VN50611	A	2017-02-27	VN--50611
MX2016009028	A	2017-03-10	MX2016009028
BR112016015989	A2	2017-08-08	BR112016015989
AU2015205476	B2	2017-10-05	AU2015205476
RU2016132785	A	2018-02-14	RU2016132785
RU2016132785	A3	2018-06-28	RU2016132785
EP3092014	B1	2018-07-11	EP3092014
RU2669926	C2	2018-10-17	RU2669926
DK3092014	T3	2018-10-22	DK3092014T
ES2690093	T3	2018-11-19	ES2690093
HRP20181603	T1	2018-11-30	HRP20181603
HUE039518	T2	2019-01-28	HUE039518



PL3092014

T3 2019-01-31 PL3092014

Abstract

(EP3092014)

The present invention relates to a semi-synthetic hybrid material which comprises an inorganic fraction and an organic fraction, having a pH of 7 to 7.4 and in which said organic fraction is crosslinked, to the process for manufacturing this material and to osteosynthesis devices or implants made of semi-synthetic hybrid material.

Inventors

CAMPRASSE GEORGES

CAMPRASSE SERGE

Latest standardized assignees - inventors removed

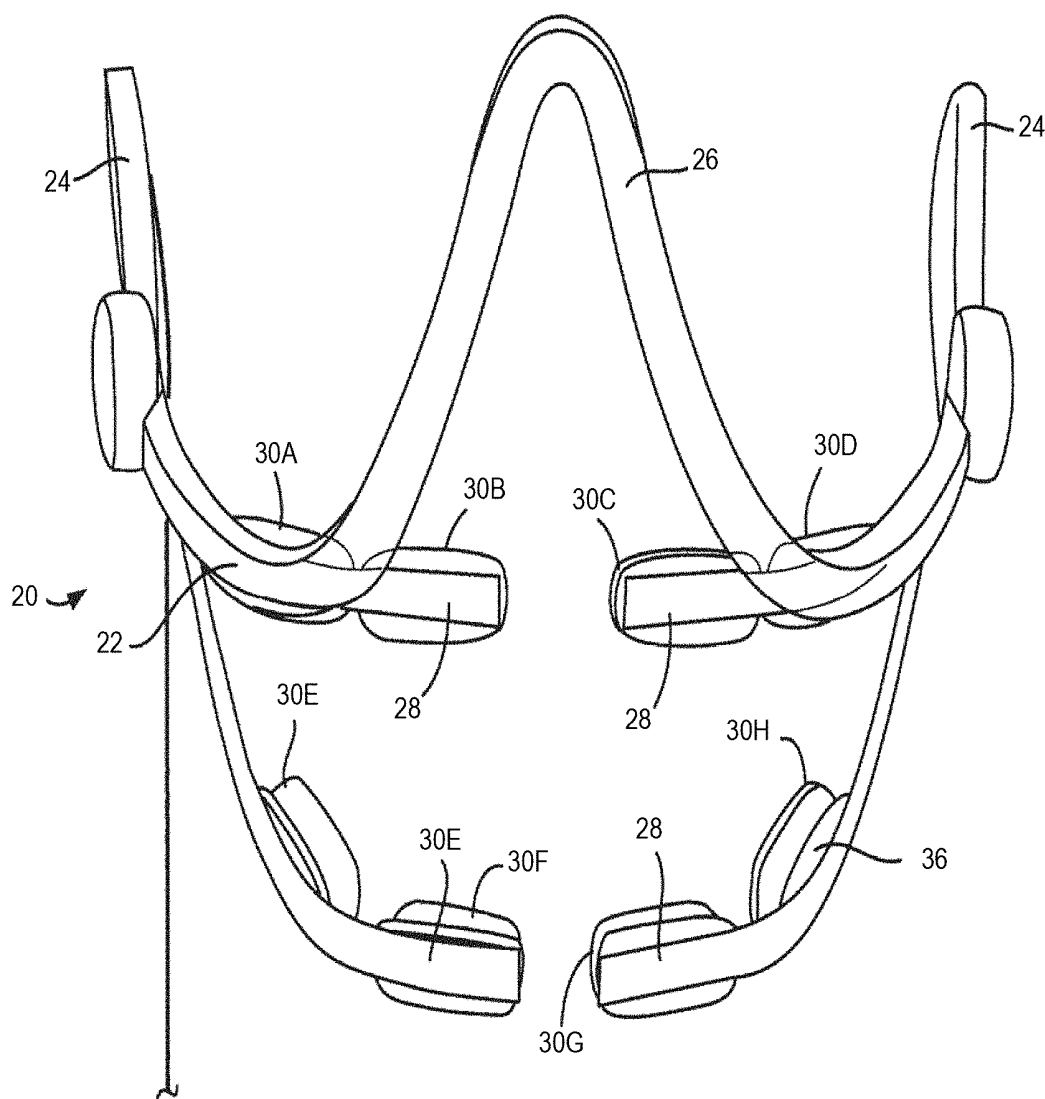
MBP MAURITIUS

Family 25/44 - FAMPAT - ©Questel

Title

(WO201956101)

Apparatus and methods useful for remodeling maxillofacial bone using light therapy, an orthodontic appliance, and optionally, vitamin d administration

Images**Publication data including kind & date**

US20190083202

A1 2019-03-21

US20190083202



[WO2019/056101](#)

A1 2019-03-28 WO201956101

Abstract

(WO201956101)

An apparatus includes a mouthpiece sized and shaped to be disposed within a patient's mouth. The mouthpiece includes a bite tray and a flange coupled to the bite tray, the flange being deflectable with respect to the bite tray. A posterior portion of the flange extends beyond a posterior end of the bite tray. The apparatus also includes a light emitter at least partially disposed within the flange. The light emitter is configured to emit light to oral tissue, such as alveolar mucosa, of the patient when the mouthpiece is disposed within the mouth.

Inventors

BRAWN PETER ROBERT

STRANGE KEVIN

MATHEWS PAUL

MARSANYI ROBERT

DEMYKIN ALEXEY

CHRISTENSEN PAUL

Latest standardized assignees - inventors removed

BIOLUX RESEARCH HOLDINGS

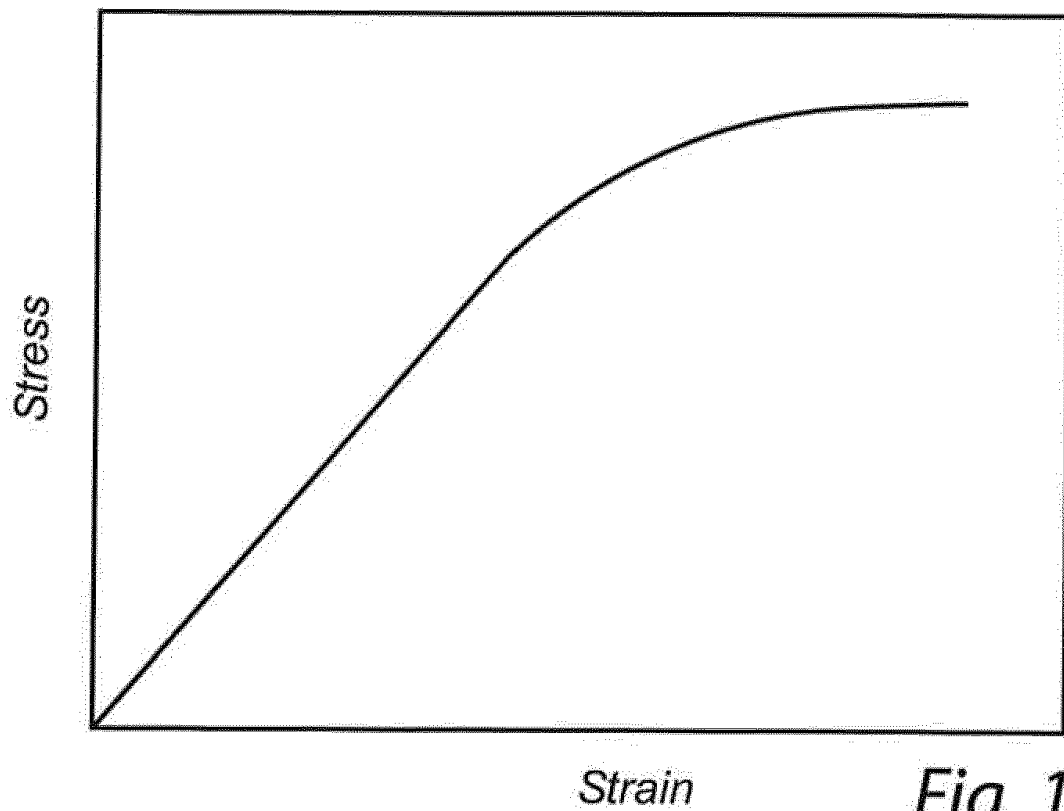
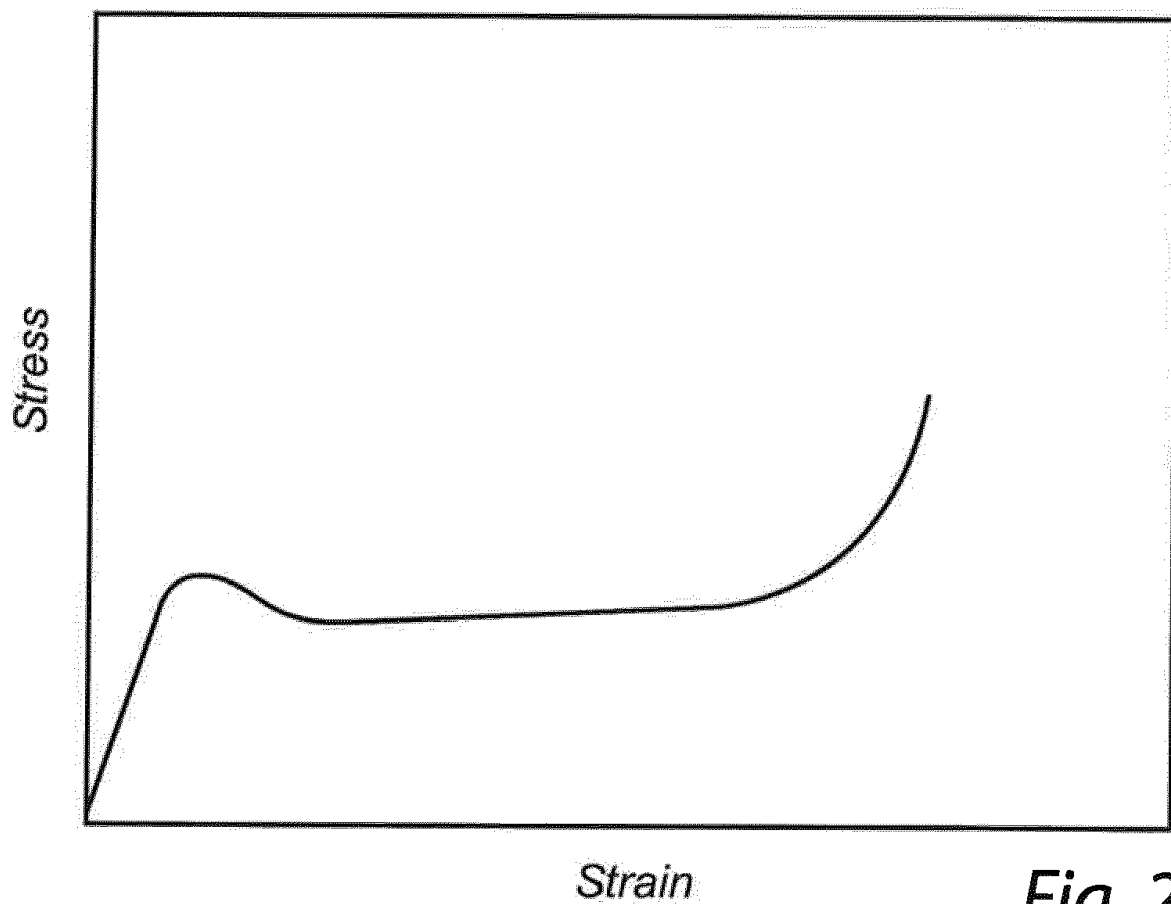
Family 26/44 - FAMPAT - ©Questel

Title

(EP3391850)

Fixture element

Images

*Fig. 1**Fig. 2*

WO2012/140168	A1	2012-10-18	WO2012140168				
AU2012241850	A1	2013-10-17	AU2012241850				
CN103458822	A	2013-12-18	CN103458822				
EP2696799	A1	2014-02-19	EP2696799				
IN7771/CHENP/2013	A	2014-08-01	IN2013CN07771				
AU2012241850	B2	2016-02-25	AU2012241850				
CN103458822	B	2016-08-24	CN103458822B				
EP2696799	B1	2018-05-23	EP2696799				
CA2832402	C	2018-10-09	CA2832402				
EP3391850	A1	2018-10-24	EP3391850				

Abstract

(EP3391850)

A fixture for insertion into a bore hole arranged in bone tissue is provided. The fixture has a threaded leading portion provided with at least one cutting edge for creating a female thread in the bone tissue, and a threaded trailing portion following the leading portion in the created female thread. Compared to the geometry of a thread peak of said cutting edge of the leading portion, a thread peak of the trailing portion is displaced or overdimensioned in at least one of the coronal and apical directions of the fixture so that a strain is provided to the bone when said displaced or overdimensioned thread peak engages with the created female thread. A fixture set for creating a strain is also provided, the set comprising a fixture and a separate thread maker.

Inventors

HANSSON STIG

HALLDIN ANDERS

Latest standardized assignees - inventors removed

DENTSPLY

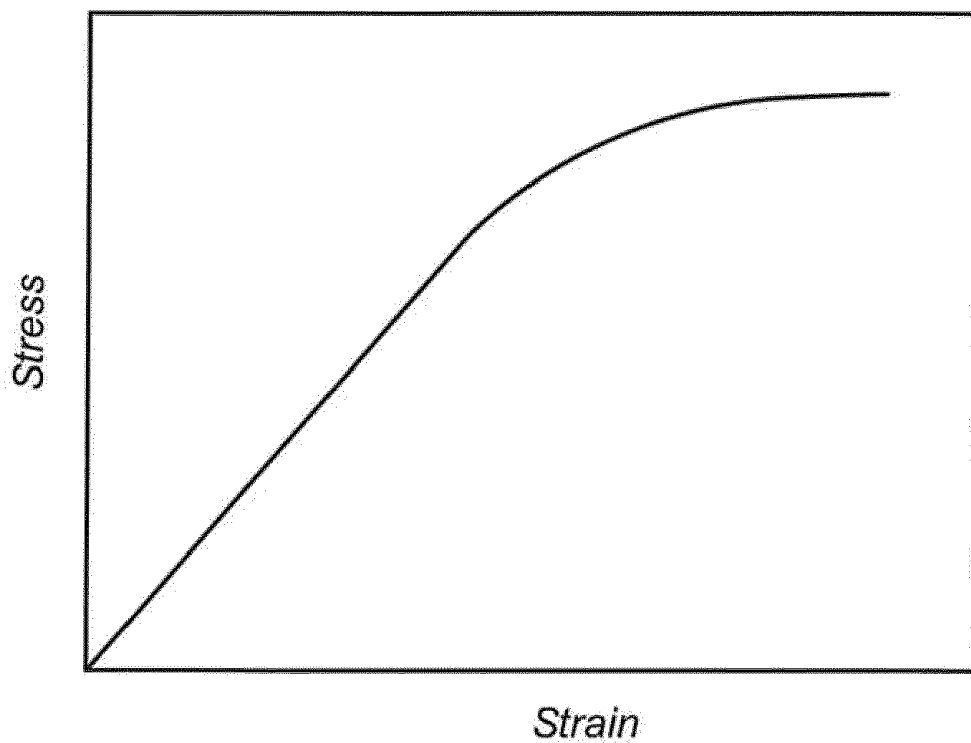
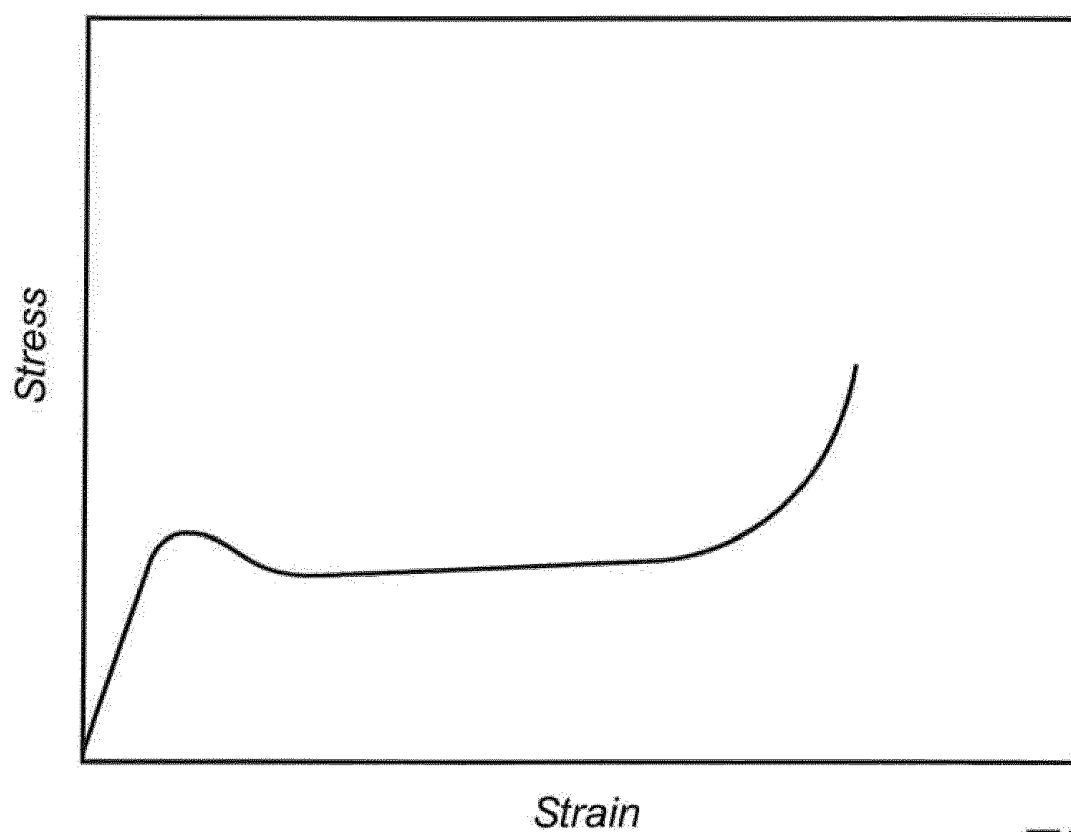
Family 27/44 - FAMPAT - ©Questel

Title

(EP2696797)

Dental Implant

Images

*Fig. 1**Fig. 2***Publication data including kind & date**

CA2832385	A1	2012-10-18	CA2832385
WO2012/140167	A2	2012-10-18	WO2012140167
WO2012/140167	A3	2012-12-06	WO2012140167
AU2012241849	A1	2013-10-17	AU2012241849



CN103476357	A	2013-12-25	CN103476357				
EP2696797	A2	2014-02-19	EP2696797				
IN7770/CHENP/2013	A	2014-08-01	IN2013CN07770				
AU2012241849	B2	2015-11-26	AU2012241849				
CN103476357	B	2016-09-28	CN103476357B				
EP2696797	B1	2018-05-23	EP2696797				
CA2832385	C	2018-08-21	CA2832385				

Abstract

(EP2696797)

The invention relates to a fixture, such as a dental fixture, for insertion into a bore hole arranged in bone tissue. The fixture has two condensation portions which may be designed to provide the same or different tensile strain levels to the cortical and cancellous bone tissue, respectively. The invention also relates to a thread maker for making a female thread in bone tissue prior to insertion of a fixture. The invention further relates to a fixture set, comprising a thread maker and a fixture.

Inventors

HANSSON STIG

HALLDIN ANDERS

Latest standardized assignees - inventors removed

DENTSPLY

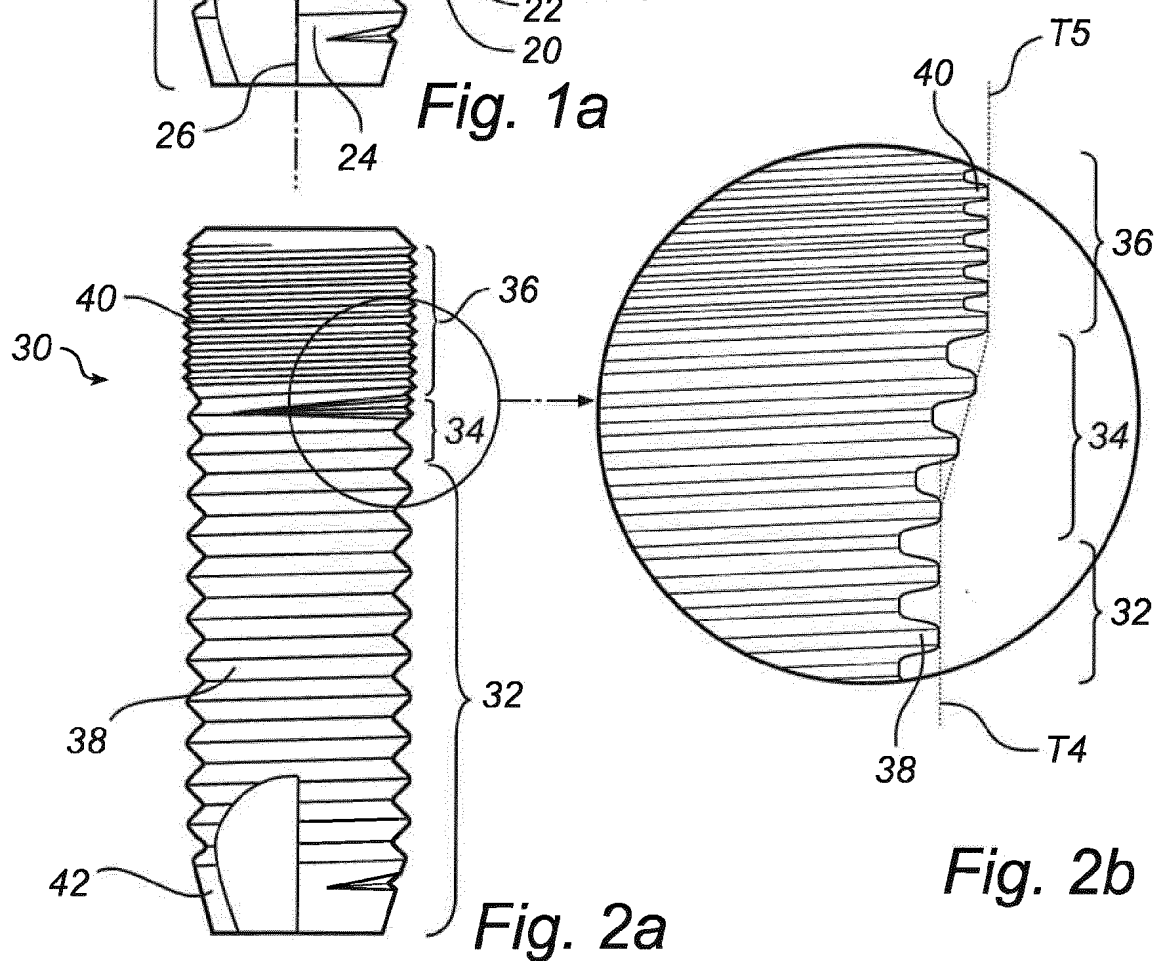
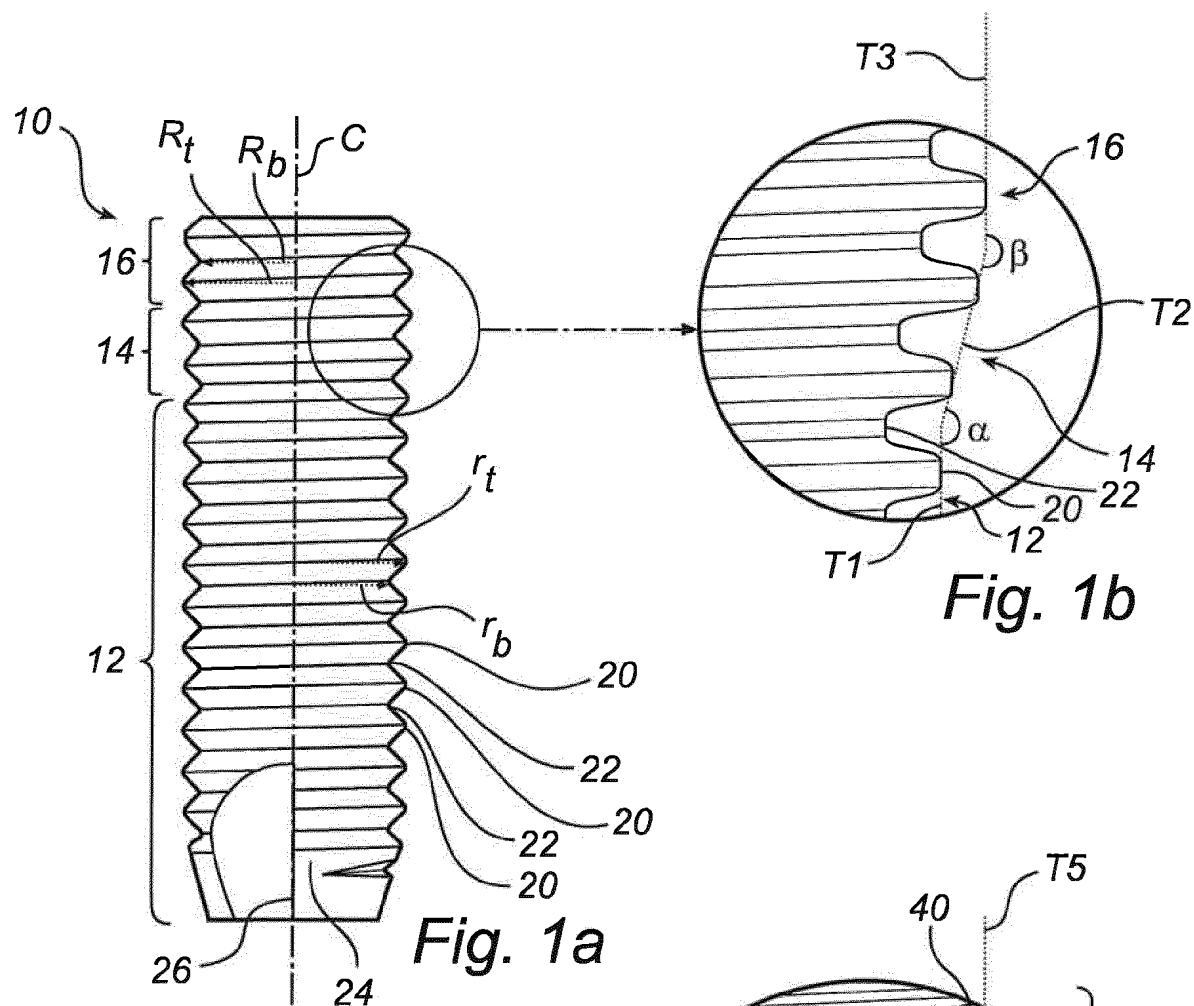
Family 28/44 - FAMPAT - ©Questel

Title

(EP2696796)

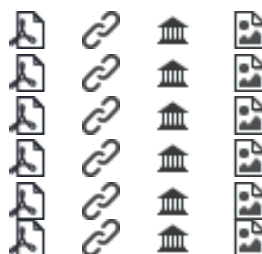
Fixture

Images



Publication data including kind & date

CA2832397	A1	2012-10-18	CA2832397
WO2012/140164	A1	2012-10-18	WO2012140164
AU2012241846	A1	2013-10-17	AU2012241846
CN103476356	A	2013-12-25	CN103476356
EP2696796	A1	2014-02-19	EP2696796



IN7870/CHENP/2013	A	2014-09-12	IN2013CN07870				
CN103476356	B	2015-10-21	CN103476356B				
AU2012241846	B2	2015-12-17	AU2012241846				
EP2696796	B1	2017-09-27	EP2696796				
CA2832397	C	2018-10-30	CA2832397				

Abstract

(EP2696796)

The present invention relates to a fixture, such as a dental fixture, for insertion into a bore hole arranged in bone tissue, comprising a threaded leading portion and a threaded trailing portion located coronal ly of the leading portion. By a widened threading at the trailing portion, the bone tissue is subjected to a static strain beyond the yield strain of the bone tissue.

Inventors

HALLDIN ANDERS

HANSSON STIG

HOLMSTRÖM JOHAN

Latest standardized assignees - inventors removed

DENTSPLY

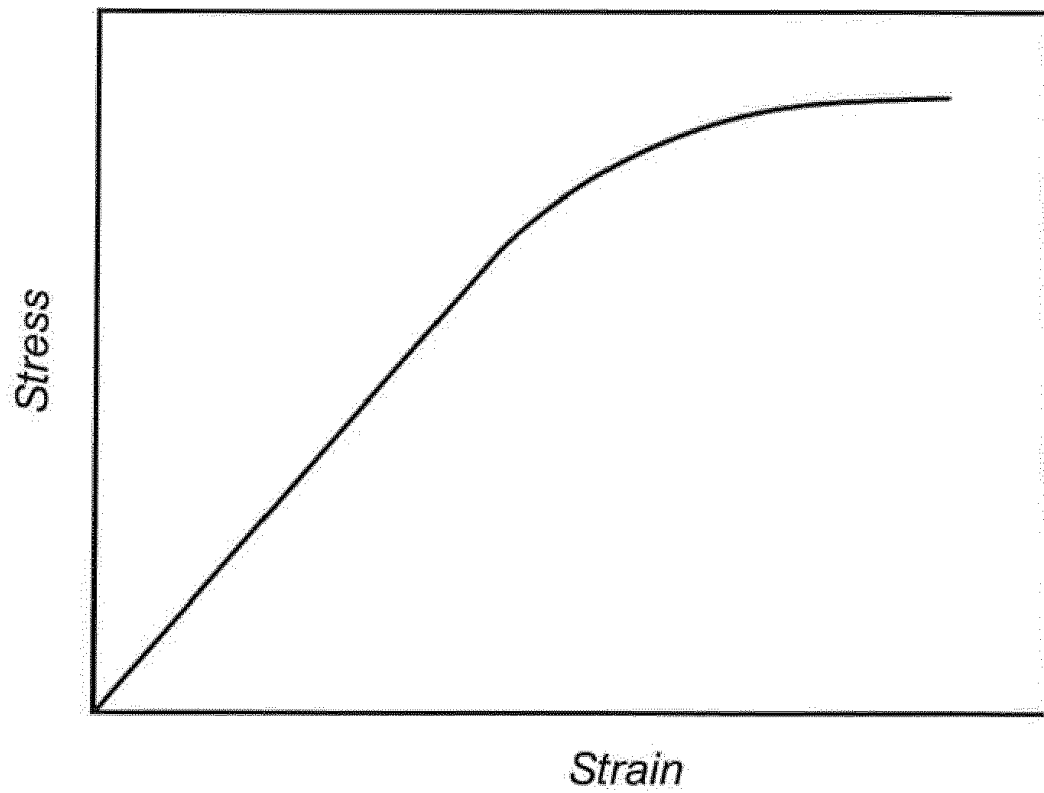
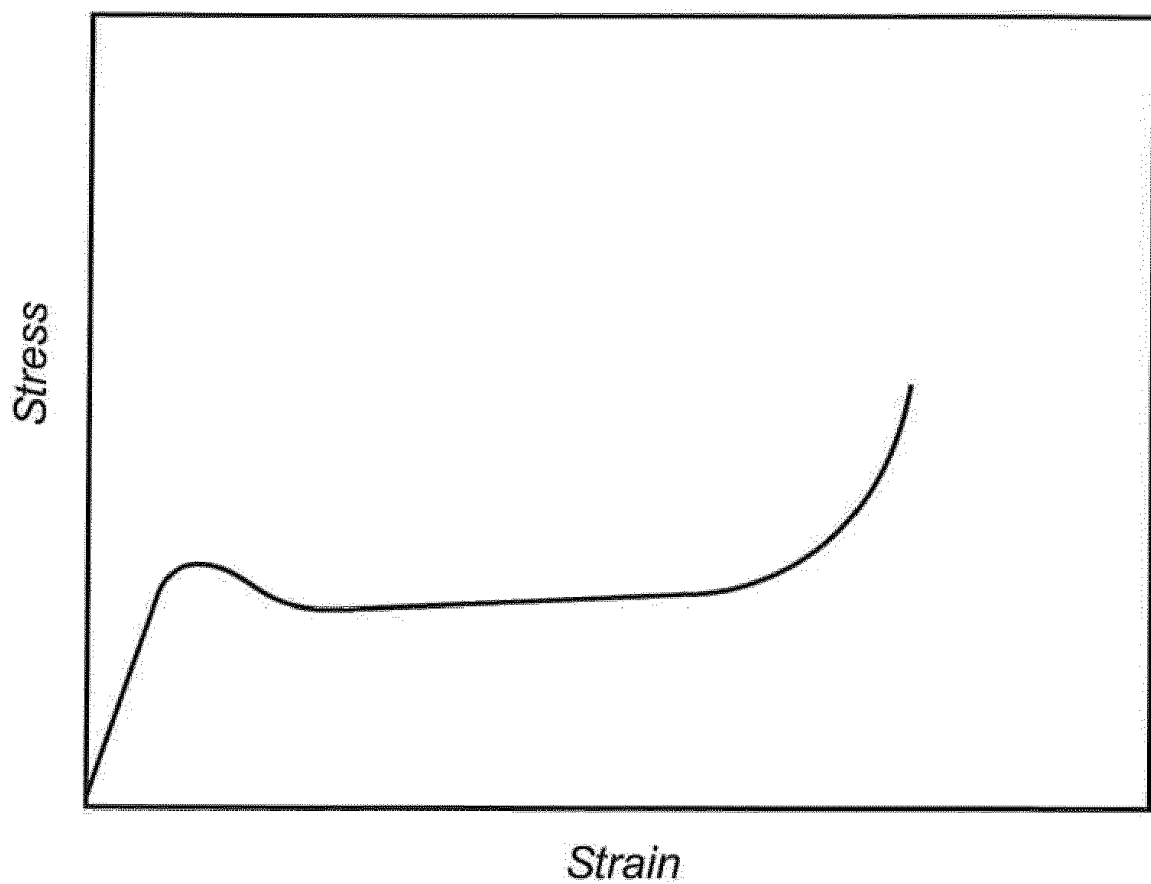
Family 29/44 - FAMPAT - ©Questel

Title

(EP2696795)

A set of fixtures

Images

*Fig. 1**Fig. 2*

CA2832399	A1	2012-10-18	CA2832399				
WO2012/140165	A2	2012-10-18	WO2012140165				
WO2012/140165	A3	2012-12-06	WO2012140165				
AU2012241847	A1	2013-10-17	AU2012241847				
CN103458821	A	2013-12-18	CN103458821				
EP2696795	A2	2014-02-19	EP2696795				
IN7921/CHENP/2013	A	2014-08-29	IN2013CN07921				
AU2012241847	B2	2015-11-12	AU2012241847				
CN103458821	B	2016-01-13	CN103458821B				
EP2696795	B1	2018-05-23	EP2696795				
CA2832399	C	2018-11-06	CA2832399				

Abstract

(EP2696795)

The present invention relates to a set of fixtures for installation, in bone tissue. Each fixture provides a static strain to the bone which is different from the static strain provided by the other fixtures of the set. The difference in static strain may be at least with respect to magnitude and/or axial extension, The invention also relates to an implantation system and a method of selecting a fixture from a set of fixtures.

Inventors

HANSSON STIG

HALLDIN ANDERS

Latest standardized assignees - inventors removed

DENTSPLY

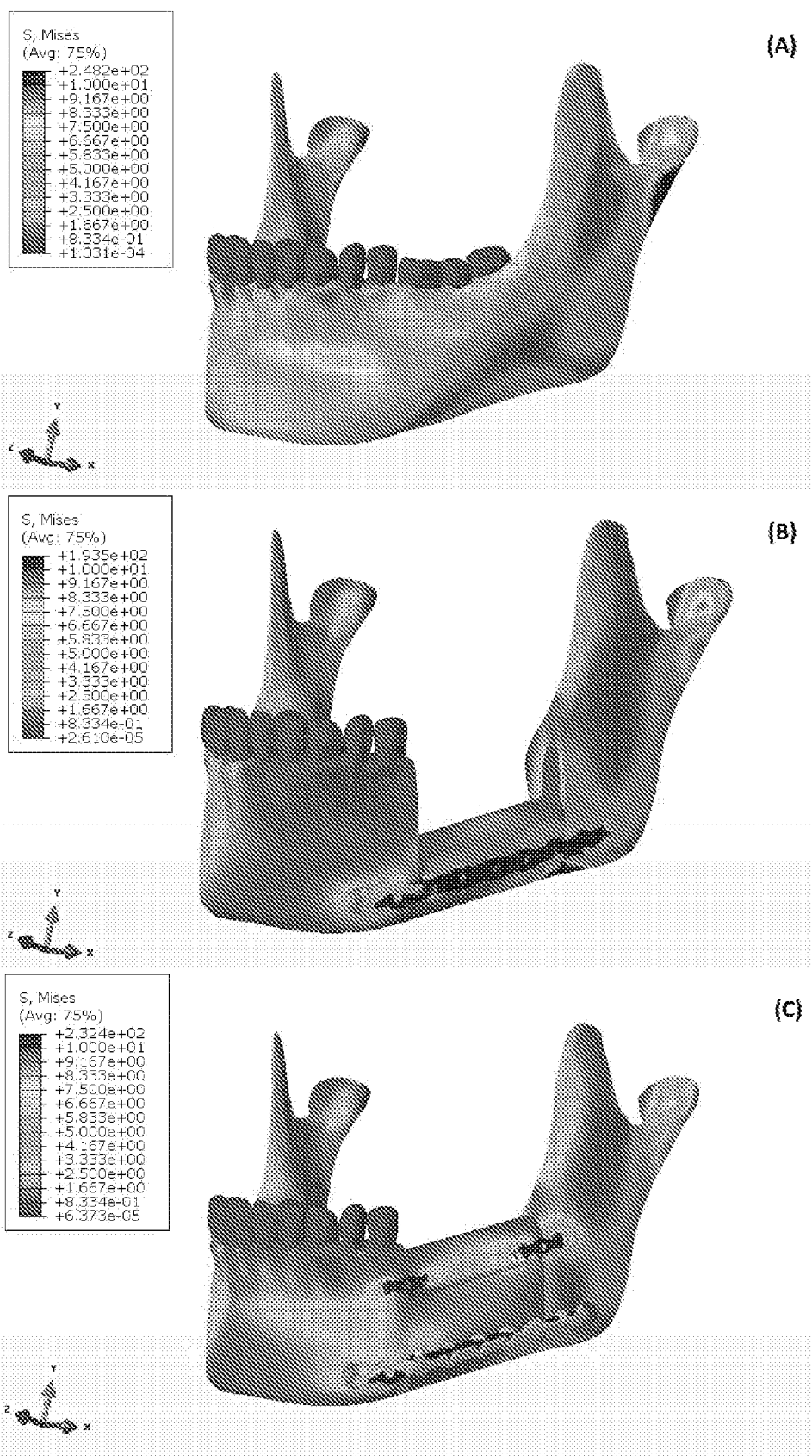
Family 30/44 - FAMPAT - ©Questel

Title

(EP3137002)

Methods, devices, and manufacture of the devices for musculoskeletal reconstructive surgery

Images



Publication data including kind & date

WO2015/138657	A1	2015-09-17	WO2015138657
US20170014169	A1	2017-01-19	US20170014169
EP3137002	A1	2017-03-08	EP3137002
EP3137002	A4	2018-06-20	EP3137002



Abstract

(EP3137002)

A device used in conjunction with fixation hardware to provide a two-stage process to address the competing needs of immobilization and re-establishment of normal stress-strain trajectories in grafted bone. A method of determining a patient-specific stress/strain pattern that utilizes a model based on 3D CT data of the relevant structures and cross-sectional data of the three major chewing muscles. The forces on each of the chewing muscles are determined based on the model using predetermined bite forces such that a stiffness of cortical bone in the patient's mandible is determined. Based on the stiffness data, suitable implantation hardware can be designed for the patient by adjusting external topological and internal porous geometries that reduce the stiffness of biocompatible metals to thereby restore normal bite forces of the patient.

Inventors

DEAN HOWARD DAVID

ELAHINIA MOHAMMAD H

HABERLAND CHRISTOPH

MILLER MICHAEL J

SUTRADHAR ALOK

MOGHADDAM NARGES SHAYESTEH

WALKER JASON M

SKORACKI ROMAN

Latest standardized assignees - inventors removed

OHIO STATE INNOVATION FOUND

UNIVERSITY OF TOLEDO

Family 31/44 - FAMPAT - ©Questel

Title

(EP2648651)

Apparatuses useful for regulating bone remodeling or tooth movement using light therapy and a functional appliance

Images

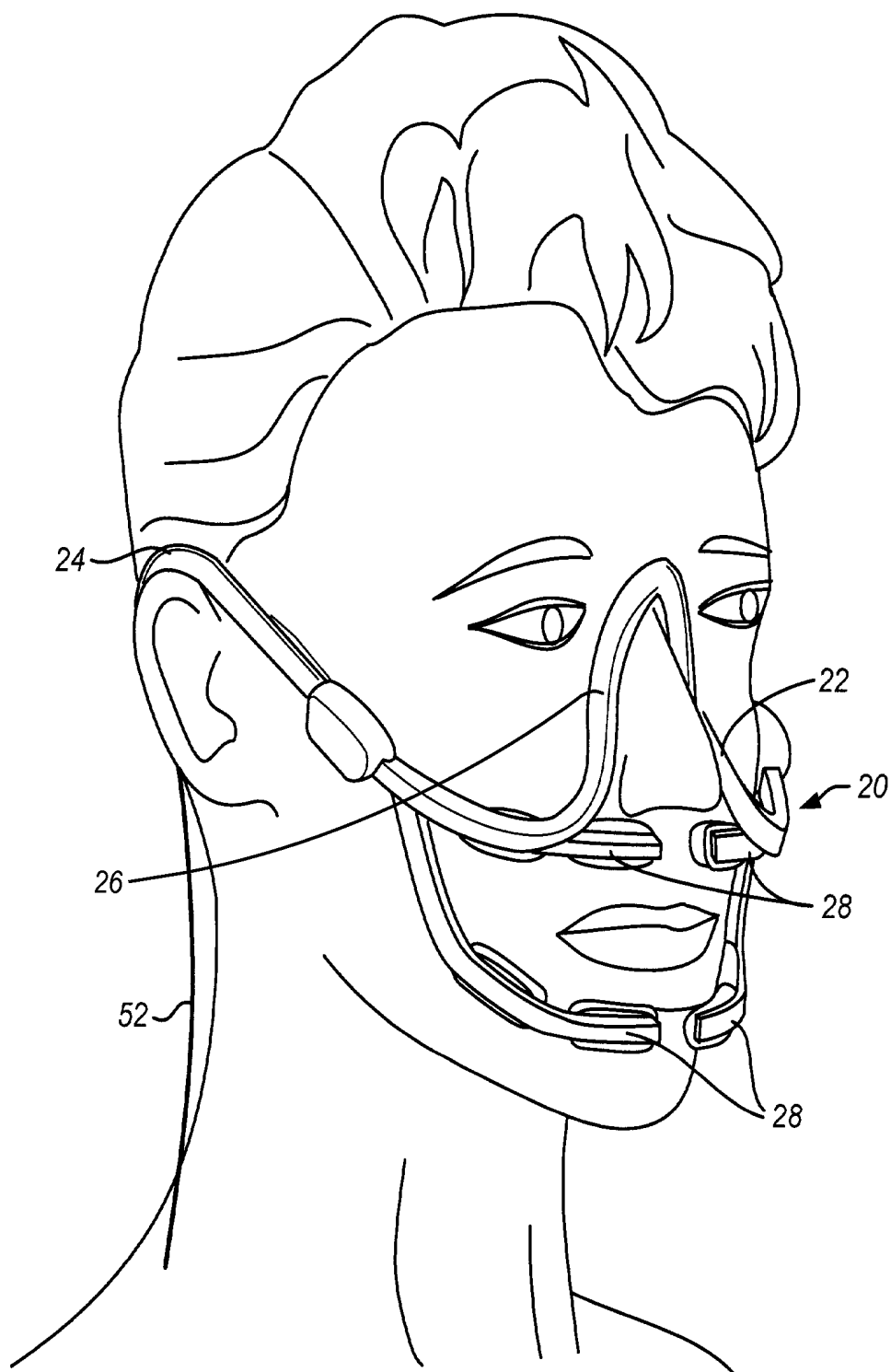


FIG.1

Publication data including kind & date

WO2012/075584	A1	2012-06-14	WO201275584
US20120148976	A1	2012-06-14	US20120148976
EP2648651	A1	2013-10-16	EP2648651
EP2648651	A4	2014-07-16	EP2648651
US9242118	B2	2016-01-26	US9242118



US20160096037	A1	2016-04-07	US20160096037
EP2648651	B1	2016-11-23	EP2648651
US20190117994	A1	2019-04-25	US20190117994

**Abstract**

(EP2648651)

Methods are provided for regulating bone remodeling or tooth movement, comprising allowing a functional appliance to exert a force on oral or maxillofacial bone, muscle, or soft tissue, or one or more teeth of a patient in need thereof; and administering an effective amount of light to the oral or maxillofacial bone, muscle, or soft tissue, or one or more teeth, wherein the light is administered before, during, or after the force is exerted. Methods are also provided for regulating bone remodeling, comprising administering an effective amount of vitamin D to an oral or maxillofacial bone, muscle, or soft tissue, or to one or more teeth of a patient in need thereof; and administering an effective amount of light to the oral or maxillofacial bone, muscle, or soft tissue, or to the one or more teeth. Apparatuses useful for providing light therapy and/or vitamin D is also provided.

Inventors

BRAWN PETER ROBERT

Latest standardized assignees - inventors removed

BIOLUX RESEARCH HOLDINGS

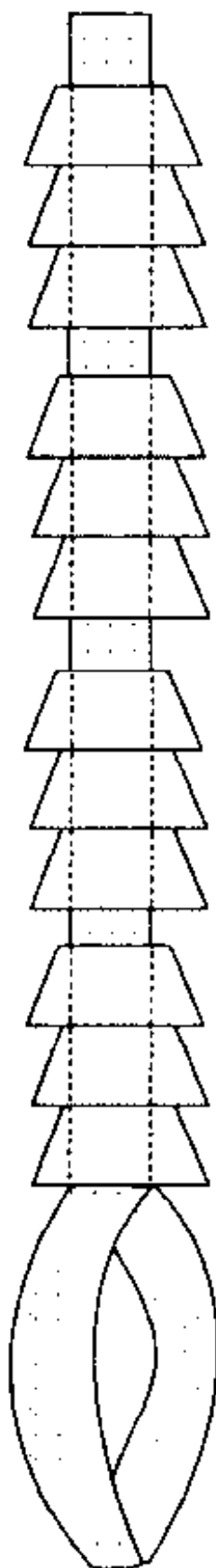
Family 32/44 - FAMPAT - ©Questel

Title

(EP2827782)

System for attaching a ligament graft

Images



Publication data including kind & date

WO2013/139985	A2	2013-09-26	WO2013139985
WO2013/139985	A3	2013-11-14	WO2013139985
EP2827782	A2	2015-01-28	EP2827782
US20150051700	A1	2015-02-19	US20150051700

**Abstract**

(EP2827782)

The invention proposes a system comprising a pin and a wire suitable for a system for attaching a ligament graft to a bone, consisting of a body having a cylindrical cavity capable of receiving a wire itself attached to the end of the ligament graft and intended to be threaded into a tunnel formed in the bone, said cavity traversing the pin from side to side, through the centre of same, forming an entry port and an exit port of said wire, said body being capable of blocking said wire and being positioned in a housing formed in the cortical portion of said tunnel in the bone. The wire is blocked in the pin preferably using a sleeve-cap compressing said cylinder from the outside to the inside.

Inventors

COLLETTE MICHEL

Latest standardized assignees - inventors removed

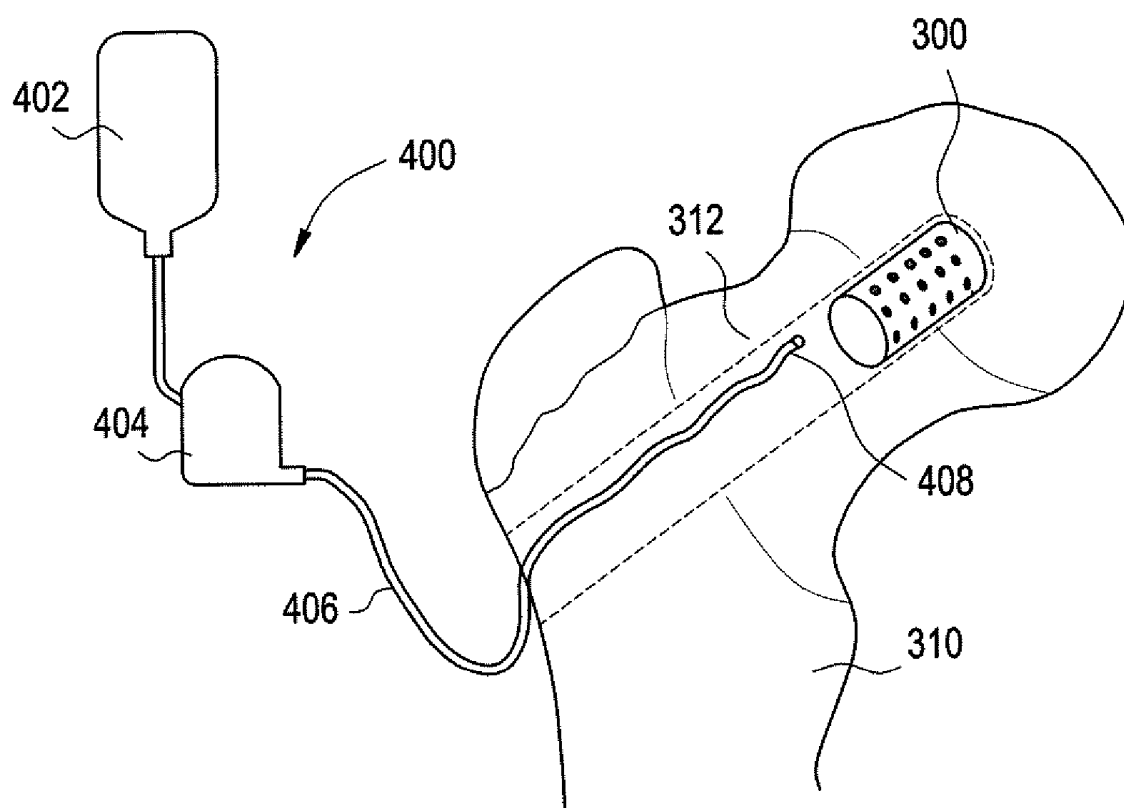
BREVEXCO

Family 33/44 - FAMPAT - ©Questel

Title

(WO200701624)

Medical and dental implant devices for controlled drug delivery

Images**Publication data including kind & date**

WO2007/001624	A2	2007-01-04	WO200701624
US20070016163	A1	2007-01-18	US20070016163
WO2007/001624	A3	2007-04-12	WO200701624



Abstract

(WO200701624)

Implantable devices and methods for use in the treatment of osteonecrosis are provided. The device includes at least one implant device body adapted for insertion into one or more channels or voids in bone tissue, - a plurality of discrete reservoirs (14) , which may preferably be microreservoirs , located in the surface of the at least one implant device body; and at least one release system disposed in one or more of the plurality of reservoirs, wherein the release system includes at least one drug (15, 20) selected from the group consisting of bone growth promoters, angiogenesis promoters, analgesics, anesthetics, antibiotics, and combinations thereof . The device body may be formed of a bone graft material, a polymer, a metal, a ceramic, or a combination thereof . The device body may be a monolithic structure, such as one having a cylindrical shape, or it may be in the form of multiple units, such as a plurality of beads.

Inventors

SANTINI JOHN T JR

HUTCHINSON CHARLES E

PROOS ELIZABETH REES

Latest standardized assignees - inventors removed

MICROCHIPS

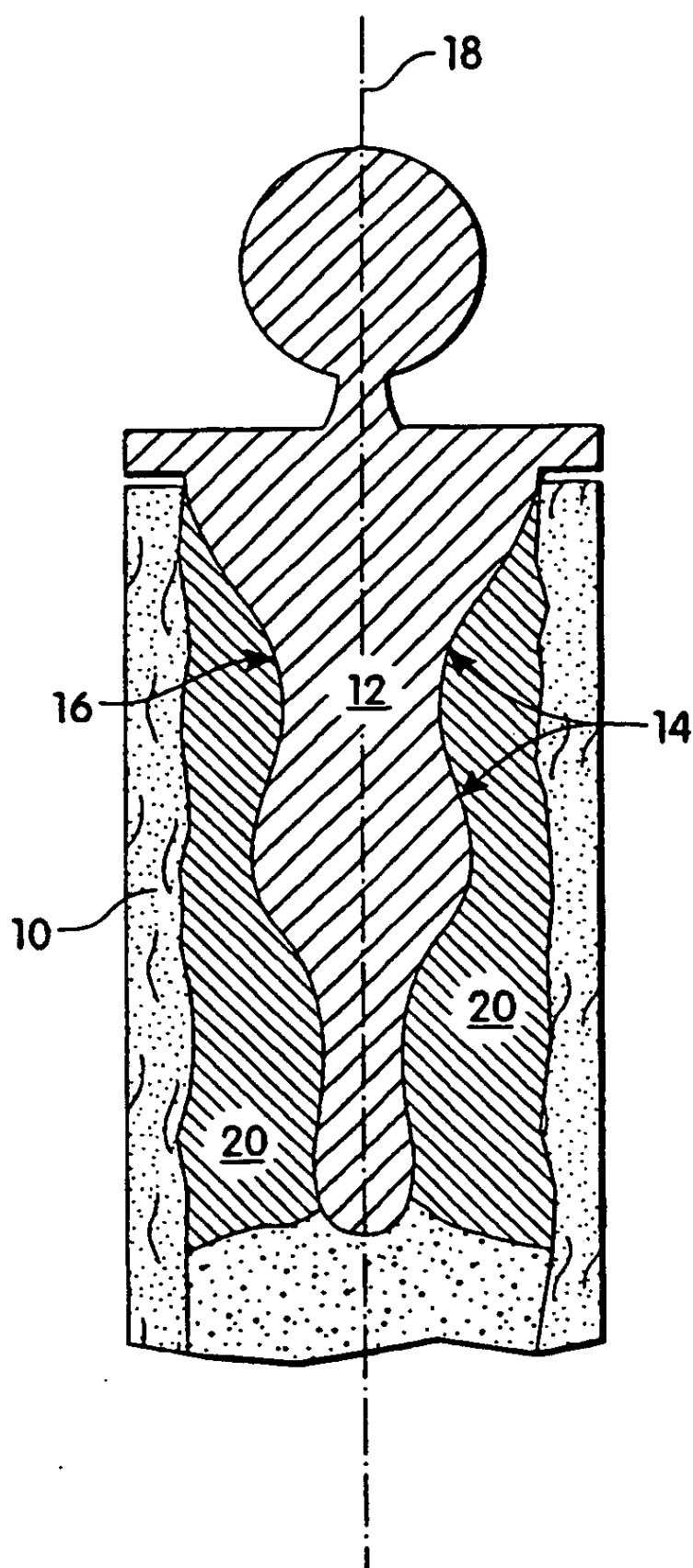
Family 34/44 - FAMPAT - ©Questel

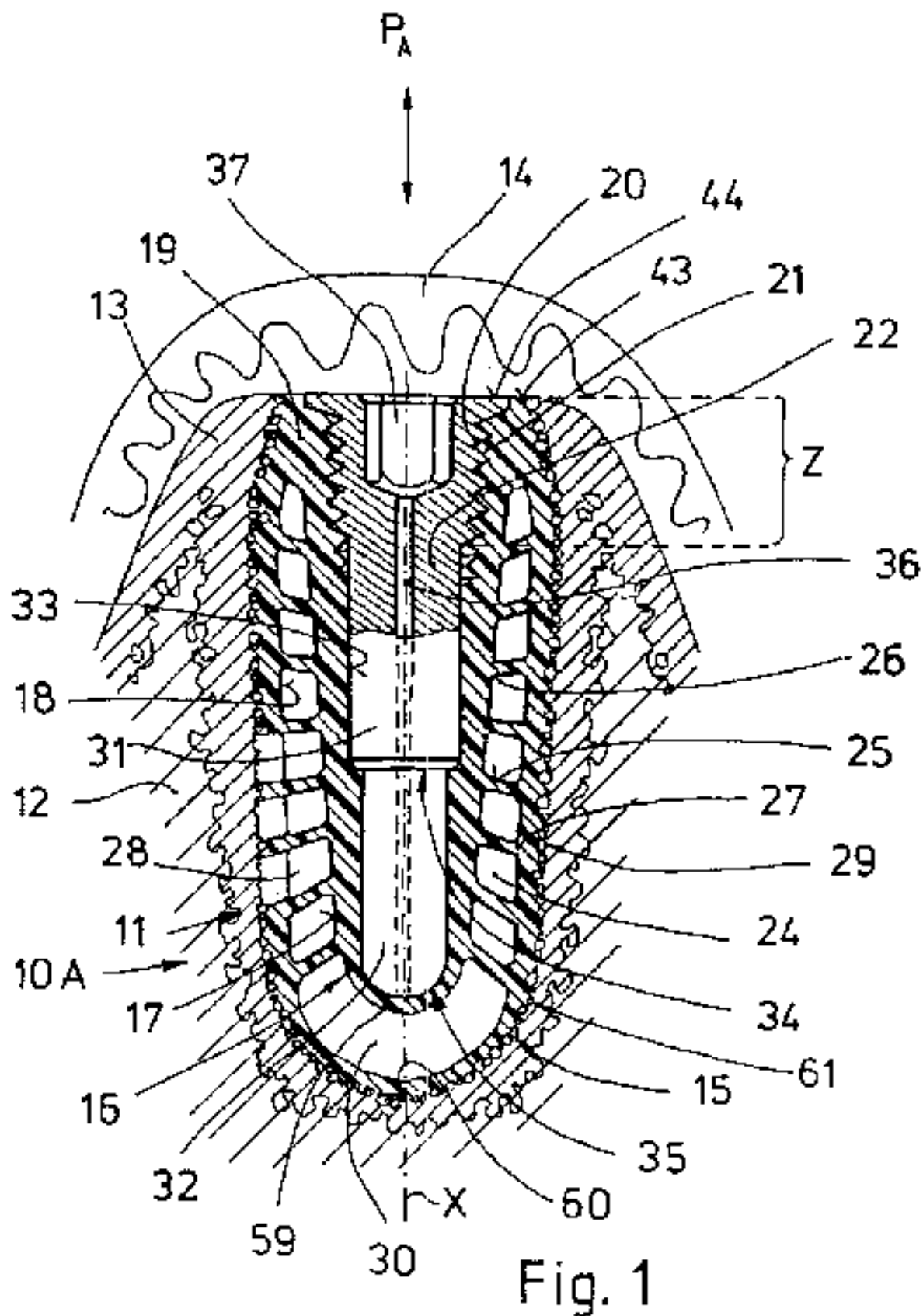
Title

(EP-646022)

Prosthetic devices having enhanced osteogenic properties

Images





Publication data including kind & date

DE3811498	A1	1989-10-26	DE3811498
DE3811498	C2	1992-06-17	DE3811498



Abstract

(DE3811498)

In a dental jaw implant a rigid shaft is accommodated so as to be tension- and pressure-resistant in an axial recess in a socket of entropy-elastic plastic whose front face pointing towards the occlusal surface holds an artificial tooth or a dental structure, where appropriate with interposition of a supporting component. The shaft itself and/or the supporting component

have a collar which is supported on the front side of the socket pointing towards the occlusal surface. The tension- and pressure-resistant connection between shaft and socket is restricted to an axial connecting zone which is short in the axial direction and points towards the occlusal surface. The remaining axial area of the shaft is surrounded by surface and/or supporting elements. With elimination of any significant transmission of an axial force between shaft and socket, these elements guide the shaft during its axial movement caused by the chewing force inside the remaining axial area relative to the outer wall surface of the socket. An axial space is left between the deepest point of the socket and the front side of the shaft. On maintenance of a tension- and pressure-resistant connection between socket and implant shaft the jaw implant permits a physiological force to be exerted upon the jaw.

Inventors

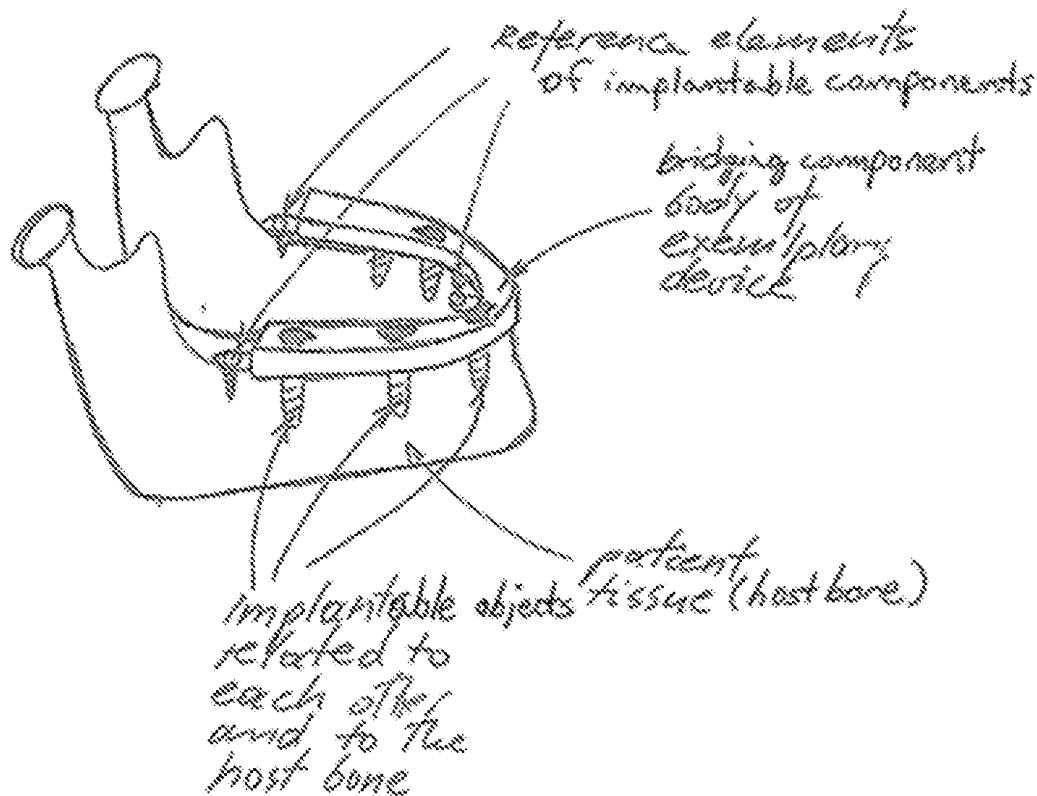
WITZEL, ULRICH, DR.-ING., 5600 WUPPERTAL, DE

Family 36/44 - FAMPAT - ©Questel

Title

(US20180344894)

Implantable objects, guiding devices, and methods of use thereof

Images**Publication data including kind & date**

[US20180344894](#)

A1 2018-12-06

US20180344894

**Abstract**

(US20180344894)

Embodiments of the disclosure relate to implantable objects and guiding devices, as well as recipient site preparation instruments, bone-implantable materials, and methods of fabrication and use thereof.

Inventors

KAY GEORGE W

HESS BRIAN J

Latest standardized assignees - inventors removed

LAUNCHPAD MEDICAL

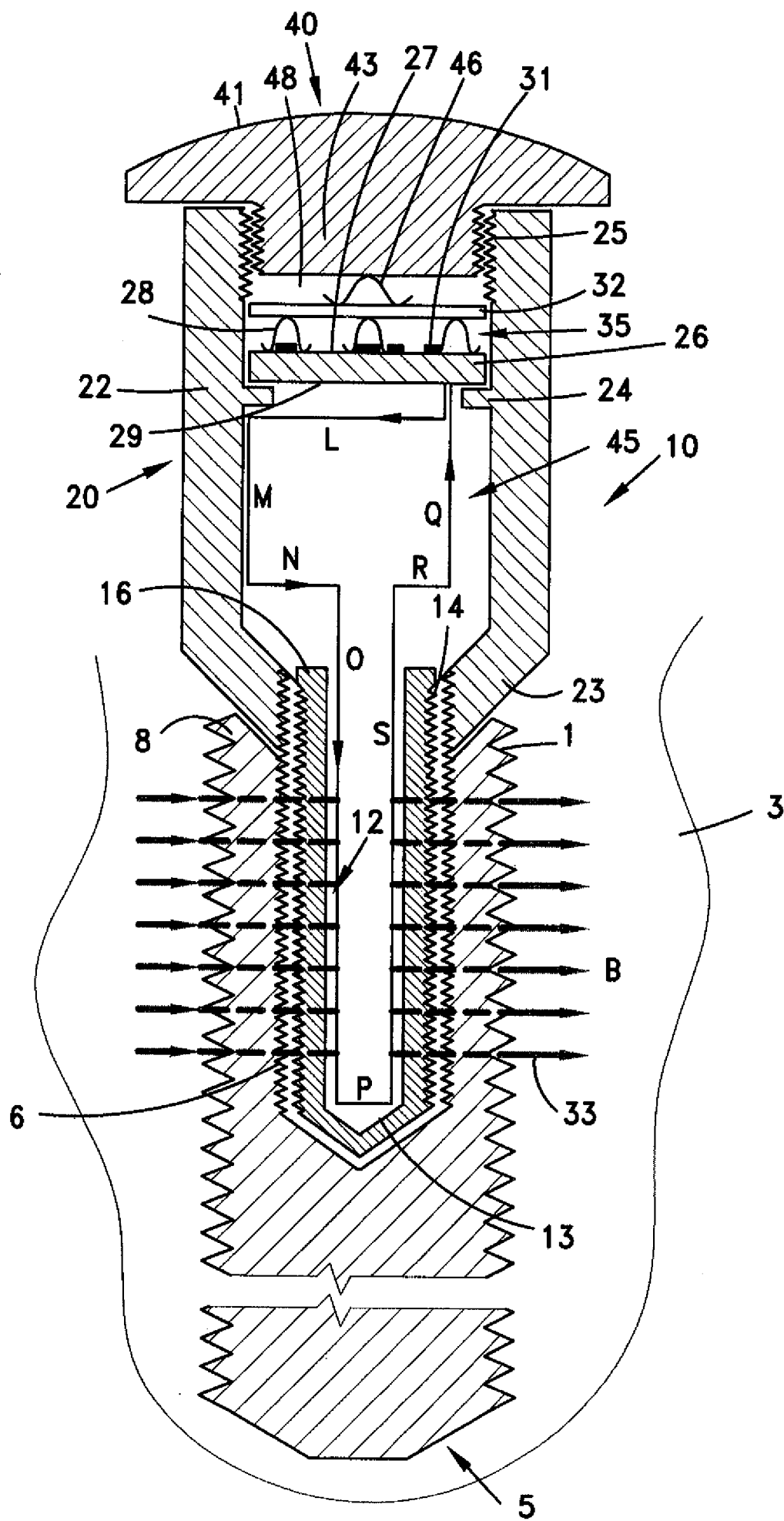
Family 37/44 - FAMPAT - ©Questel

Title

(EP2493549)

Implant device for stimulating osteogenesis and osseointegration

Images



Publication data including kind & date

WO2011/051947	A1	2011-05-05	WO201151947				
KR20120091256	A	2012-08-17	KR20120091256				
US20120215281	A1	2012-08-23	US20120215281				
EP2493549	A1	2012-09-05	EP2493549				
BR112012010030	A1	2012-12-04	BR112012010030				
EP2493549	A4	2013-11-13	EP2493549				
US9327115	B2	2016-05-03	US9327115				
BR112012010030	A2	2016-11-29	BR112012010030				
EP2493549	B1	2019-04-03	EP2493549				

Abstract

(EP2493549)

An implant device for stimulating osteogenesis and osseointegration comprises a hollow annular housing member, a pulsed current modulator, and a coil connected to the current modulator. The current modulator and at least a portion of the coil are mounted within the housing member. A frequency of the pulsed current is selected to generate an electromagnetic field of a predetermined flux density that penetrates, and propagates radially outwardly from, the housing member for a sufficiently large propagation distance to stimulate osteogenesis and osseointegration, by means of the generated electromagnetic field, of a bone region in which the implant device is implanted and which is disposed radially outwardly from the housing member.

Inventors

NEUMAN MOSHE

Latest standardized assignees - inventors removed

MAGDENT

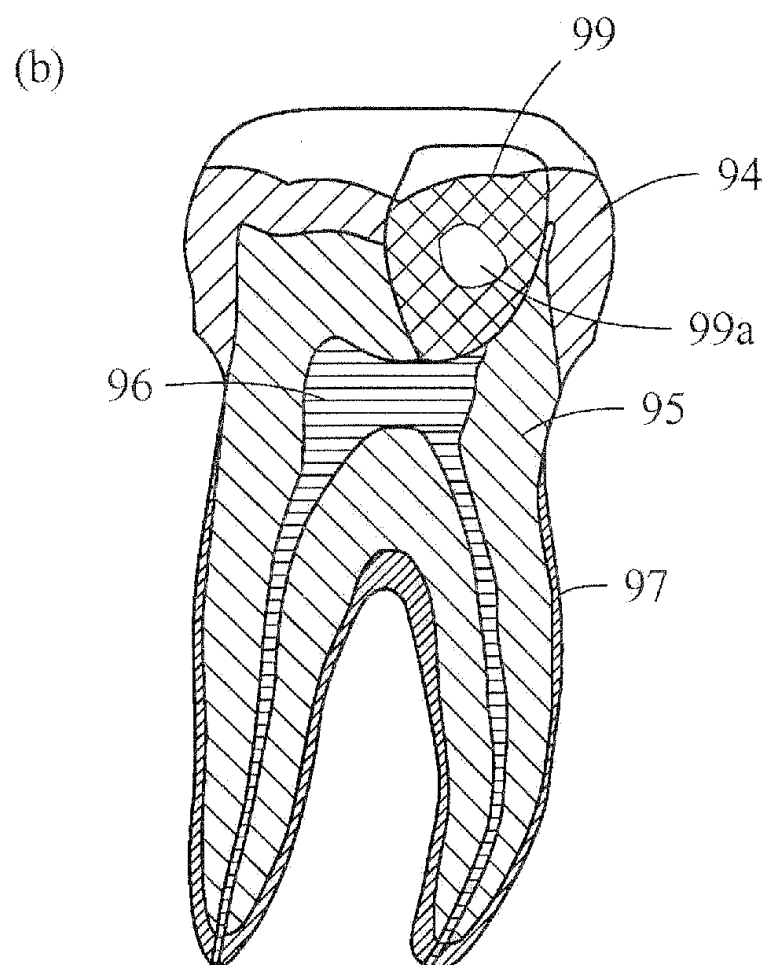
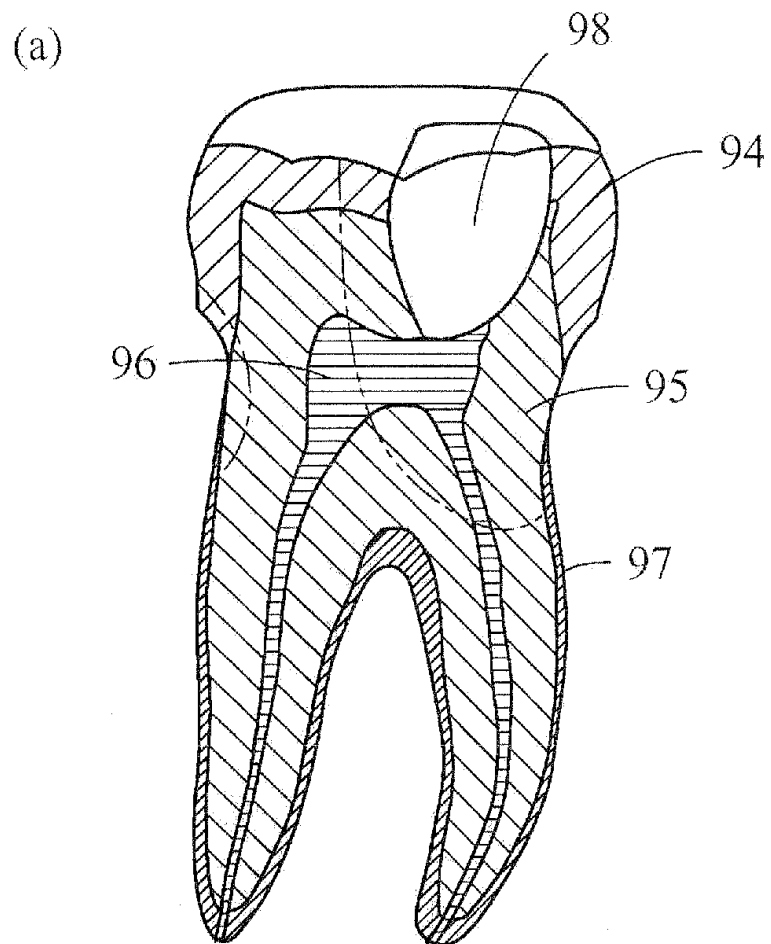
Family 38/44 - FAMPAT - ©Questel

Title

(EP1852135)

Medical material, artificial tooth root and method of producing material for clinical use

Images



Publication data including kind & date

JPWO2006090777	A1	2006-08-31	JP2006090777W				
WO2006/090777	A1	2006-08-31	WO200690777				
JP2006263445	A	2006-10-05	JP2006263445				
EP1852135	A1	2007-11-07	EP1852135				
CN101141987	A	2008-03-12	CN101141987				
US20090215009	A1	2009-08-27	US20090215009				
CN101920046	A	2010-12-22	CN101920046				
EP1852135	A4	2012-01-11	EP1852135				
CN101141987	B	2012-09-19	CN101141987B				
JP5166864	B2	2012-12-28	JP5166864				
EP1852135	B1	2018-04-11	EP1852135				

Abstract

(EP1852135)

To provide a medical material having such a structure that enables even diffusion and distribution in the material of a sufficient amount a substance necessary for a medical treatment, we describe a medical material 10 composed of a porous three-dimensional construct 11, which is a rectangular parallelepiped having a porosity of from 20 to 97%, and pores 12, 13, 14 and 15 provided in the main body. From this pore 12, a substance such as calcium phosphate or ceramics apatite and/or a physiologically active cell, tissue or protein and a substance suitable for exerting the functions thereof are introduced.

Inventors

SEKI YASUO

SHIOTA HIROYUKI

KUBOKI YOSHINORI

NOISHIKI YASUHARU

Latest standardized assignees - inventors removed

HI LEX

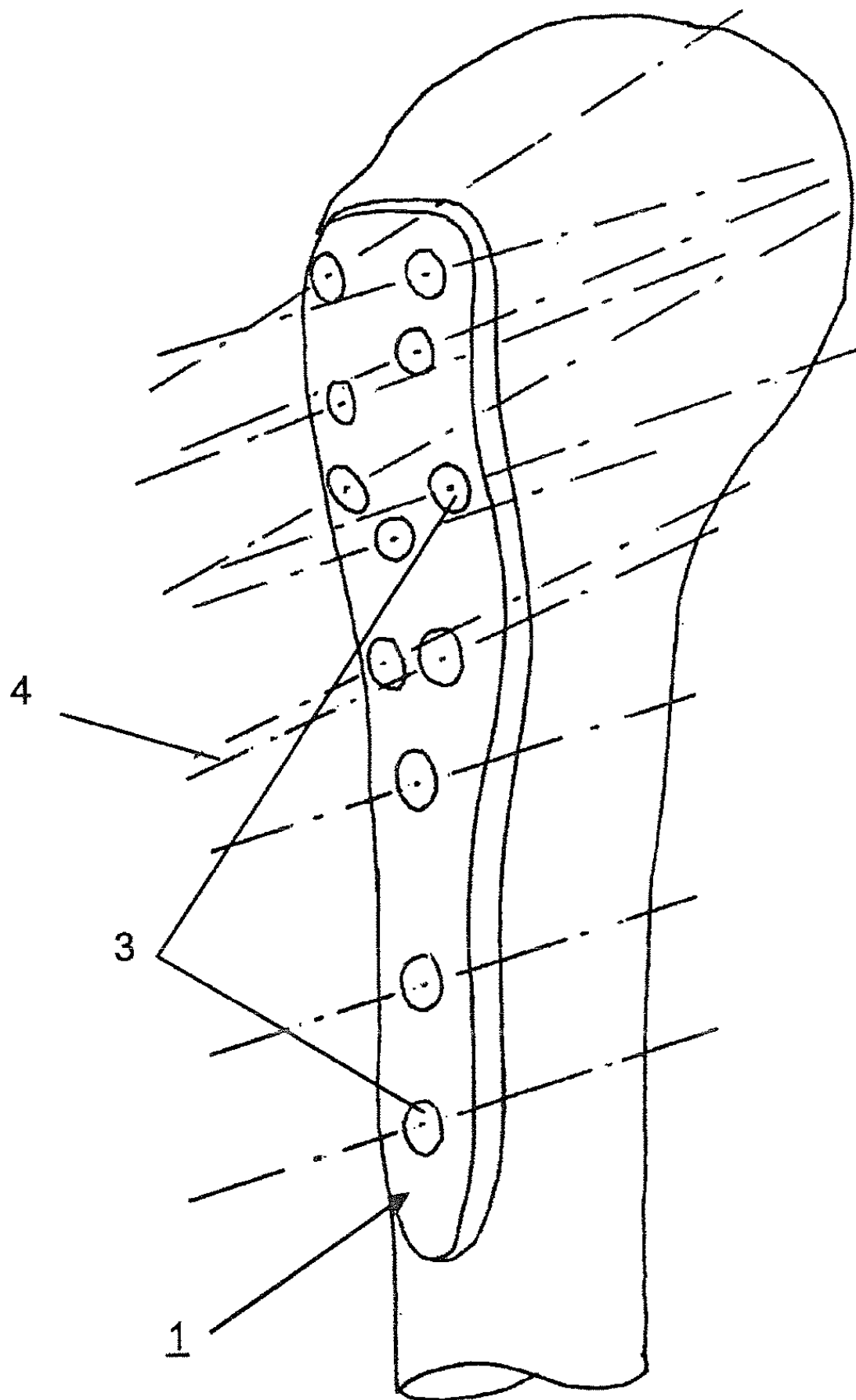
Family 39/44 - FAMPAT - ©Questel

Title

(EP2538884)

Method for designing and/or optimizing a surgical device

Images

**Publication data including kind & date**[WO2011/103689](#)

A1 2011-09-01 WO2011103689

[US20120323282](#)

A1 2012-12-20 US20120323282

[EP2538884](#)

A1 2013-01-02 EP2538884



[EP2538884](#)

B1 2016-06-08 EP2538884

[US9603670](#)

B2 2017-03-28 US9603670

**Abstract**

(EP2538884)

Method for designing and/or optimizing a surgical device, in particular an implant (1) for fixation at or in a bone by means of a bone fixation element (2), said implant having one or more through holes (3) with a central axis (4) for receiving a bone fixation element (2) and a surface to be placed adjacent or in contact with a bone, comprising the following steps: a) providing a general collection of three-dimensional bone quality data obtained from a patient population; b) identifying in the investigated patient population $N > 2$ categories of patients with significantly different $N > 2$ homologous sub-collections of bone quality data; c) designing an implant (1) or optimizing an existing implant (1) for each of the $N > 2$ sub-collections wherein said at least one through hole (3) is located at c1) an optimal place of said implant (1); and with c2) an optimal direction of said central axis relative to said implant (1); said optimal position and direction being chosen based on each of said $N > 2$ sub-collections of data so as to obtain an optimal anchorage - based on said bone quality data - of said bone fixation element (2) in the bone when introduced through said hole (3) into the bone for each of said $N > 2$ sub-collections of data.

Inventors

BRIANZA STEFANO

SCHIUMA DAMIANO

TAMI ANDREA

Latest standardized assignees - inventors removed

AO TECHNOLOGY

Family 40/44 - FAMPAT - ©Questel

Title

(US6287310)

Fasteners having coordinated self-seeking conforming members and uses thereof

Images

U.S. PATENT DOCUMENTS					
4,217,518	10/1980	Aginsky .	4,519,100	5/1985	Wells et al.
4,246,812	12/1980	Aginsky .	4,523,587	8/1985	Prey
4,247,875	12/1980	Terracini .	4,530,990	5/1986	Kath et al.
4,251,350	4/1981	Baumark et al.	4,642,107	12/1986	Freedland .
4,275,717	6/1981	Bolesky .	4,681,590	7/1987	Tunney .
4,299,136	1/1982	Talbot .	4,731,103	1/1988	Freedland .
4,330,891	5/1982	Baumark et al.	4,862,863	8/1989	Freedland .
4,409,974	10/1983	Freedland .	5,013,292	5/1991	Prezinsky .
4,458,768	2/1985	Hansson .	5,057,103	10/1991	Davis
			5,059,193	10/1991	Kischel .
			5,064,725	11/1991	Baumark et al.

Publication data including kind & date

US5882351	A	1999-03-16	US5882351
US6287310	B1	2001-09-11	US6287310



Abstract

(US6287310)

Fasteners having coordinated self-seeking conforming members for implanting into a cavity such as a hole, tube, or hard tissue defect are provided. An actuator mechanism translates applied force to conform members of a plurality of members to the cavity. The fasteners may be used for implanting a prosthetic device into hard tissue of humans or animals, for anchoring a device while the device is being worked on, or for centering a device in a hole or tube, such as in well technology. The mechanism operates expanding members so that they independently or dependently conform and apply a controlled and known pressure to surrounding materials.

Inventors

FOX WILLIAM CASEY

Latest standardized assignees - inventors removed

BIOMEDICAL ENTERPRISES

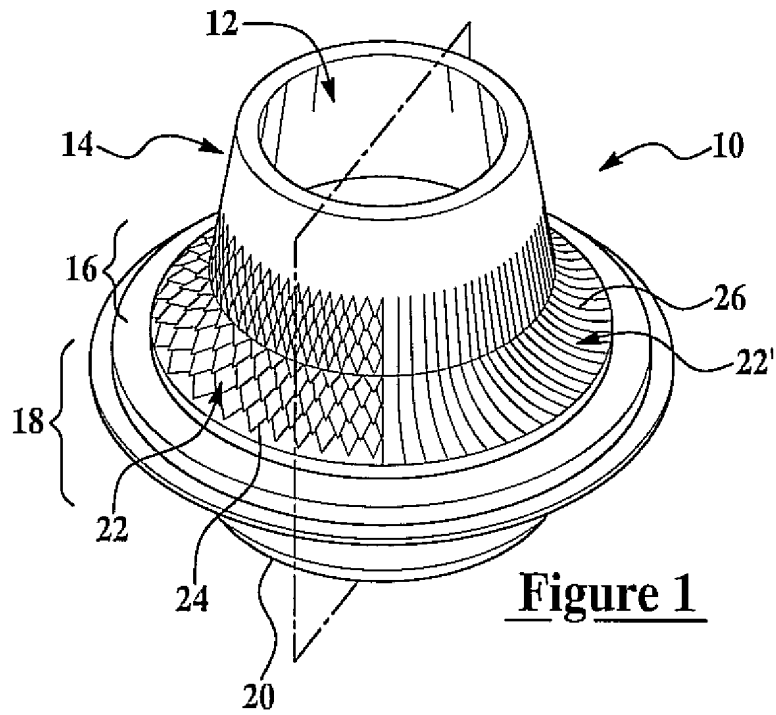
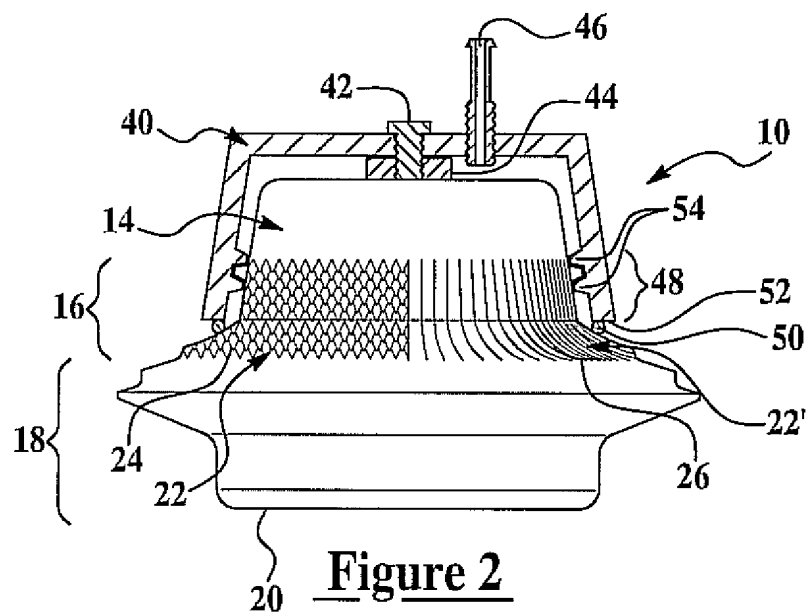
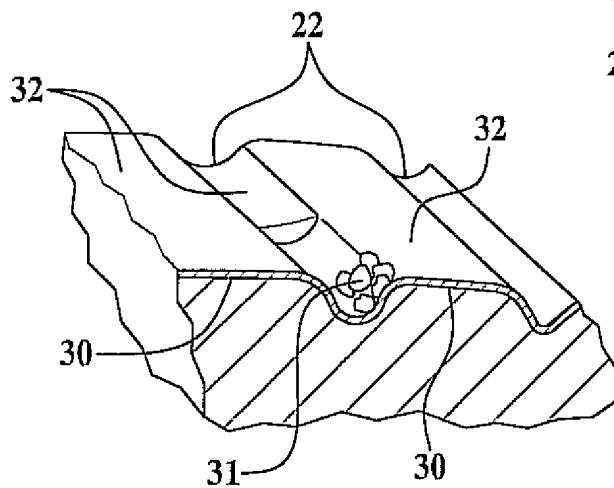
Family 41/44 - FAMPAT - ©Questel

Title

(US8877499)

Bone anchor

Images

**Figure 1****Figure 2****Figure 3****Publication data including kind & date**

US20070026032	A1	2007-02-01	US20070026032
US20080281147	A1	2008-11-13	US20080281147
US7704225	B2	2010-04-27	US7704225
US20100143577	A1	2010-06-10	US20100143577
US7976452	B2	2011-07-12	US7976452



US20120150149	A1	2012-06-14	US20120150149				
US8383407	B2	2013-02-26	US8383407				
US20130261676	A1	2013-10-03	US20130261676				
US8877499	B2	2014-11-04	US8877499				

Abstract

(US8877499)

A biocompatible implantable bone anchor is provided that has a threaded first portion that engages and anchors into a bone. The implant also has a neck region extending from the first portion adapted to promote autologous cell growth thereon at an interface of the bone and one or more epidermal or gum layers, the neck region having a plurality of channels extending about the neck region. The neck region is configured to mechanically engage at least one of an abutment, dental restoration, or osseous device attachment. An in situ bone anchor cell growth **assembly** includes the bone anchor and a manifold encompassing the neck portion so as to form a seal therebetween and a route of fluid communication between a manifold inlet and at least one of said plurality of channels. A process for growing autologous cells on a neck region of a bone anchor is provided.

Inventors

KANTROWITZ ALLEN B

HELMUS MICHAEL N

Latest standardized assignees - inventors removed

VIADERM

Family 42/44 - FAMPAT - ©Questel

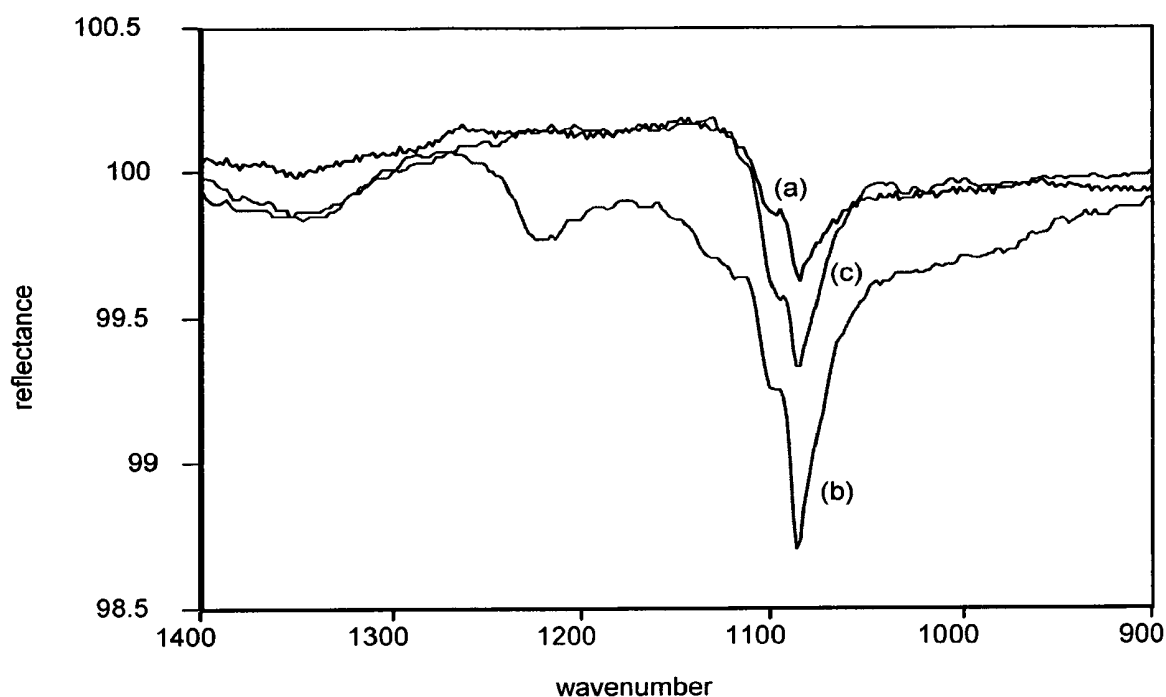
Title

(US8993117)

Devices with multiple surface functionality

Images

FIG. 1

**Publication data including kind & date**

US20060194008	A1	2006-08-31	US20060194008
US20090004481	A1	2009-01-01	US20090004481
US7879456	B2	2011-02-01	US7879456
US20120114935	A1	2012-05-10	US20120114935
US20120121661	A1	2012-05-17	US20120121661
US8993117	B2	2015-03-31	US8993117

**Abstract**

(US8993117)

Phosphorus-based coatings having a plurality of phosphate moieties, a plurality of phosphonate moieties, or both, covalently bonded to an oxide surface of an implantable substrate exhibiting one or more of the following characteristics: (a) the surface phosphorus-containing group density of the coated regions of the substrate is at least about 0.1 nmol/cm²; (b) the phosphorus-based coating has a thickness of less than about 10 nm; or (c) the surface phosphorus-containing group density of the coated regions of the substrate is equal to or greater than the surface hydroxyl group density of the oxide surface of the substrate. Implantable devices embodying the coated substrates are also disclosed.

Inventors

SCHWARTZ JEFFREY

GAWALT ELLEN S

AVALTRONI MICHAEL J

Latest standardized assignees - inventors removed

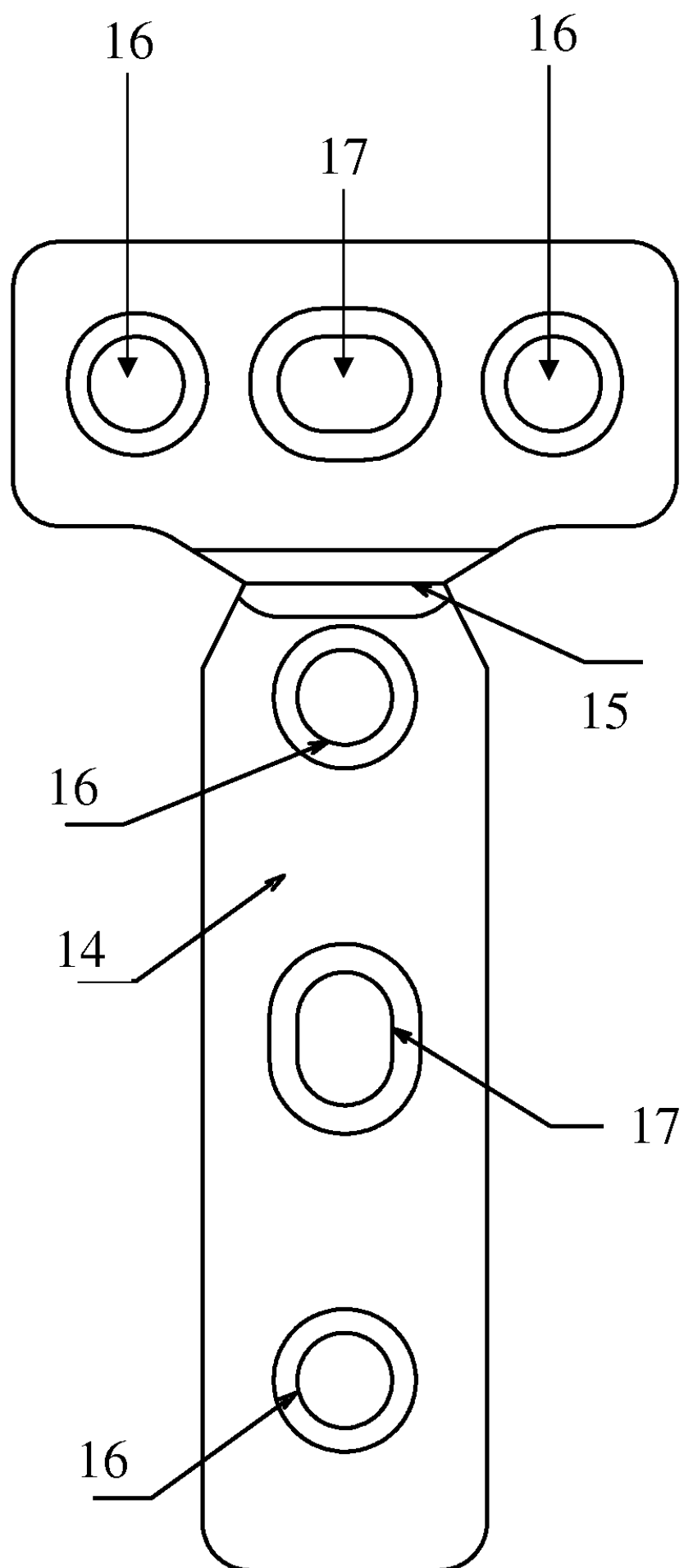
PRINCETON UNIVERSITY

Title

(US20150196398)

Method for producing osteosynthesis devices, osteosynthesis devices and implants made of semi-synthetic hybrid material obtained by structural modification of the components of a natural marine biomaterial

Images



Publication data including kind & date[US20150196398](#)

A1 2015-07-16

US20150196398

**Abstract**

(US20150196398)

A semi-synthetic hybrid material having a pH from 7 to 7.4 includes an inorganic fraction and a cross-linked organic fraction. The method for producing this material, and osteosynthesis devices or implants made of semi-synthetic hybrid material are also described.

Inventors

CAMPRASSE GEORGES

CAMPRASSE SERGE

Latest standardized assignees - inventors removed

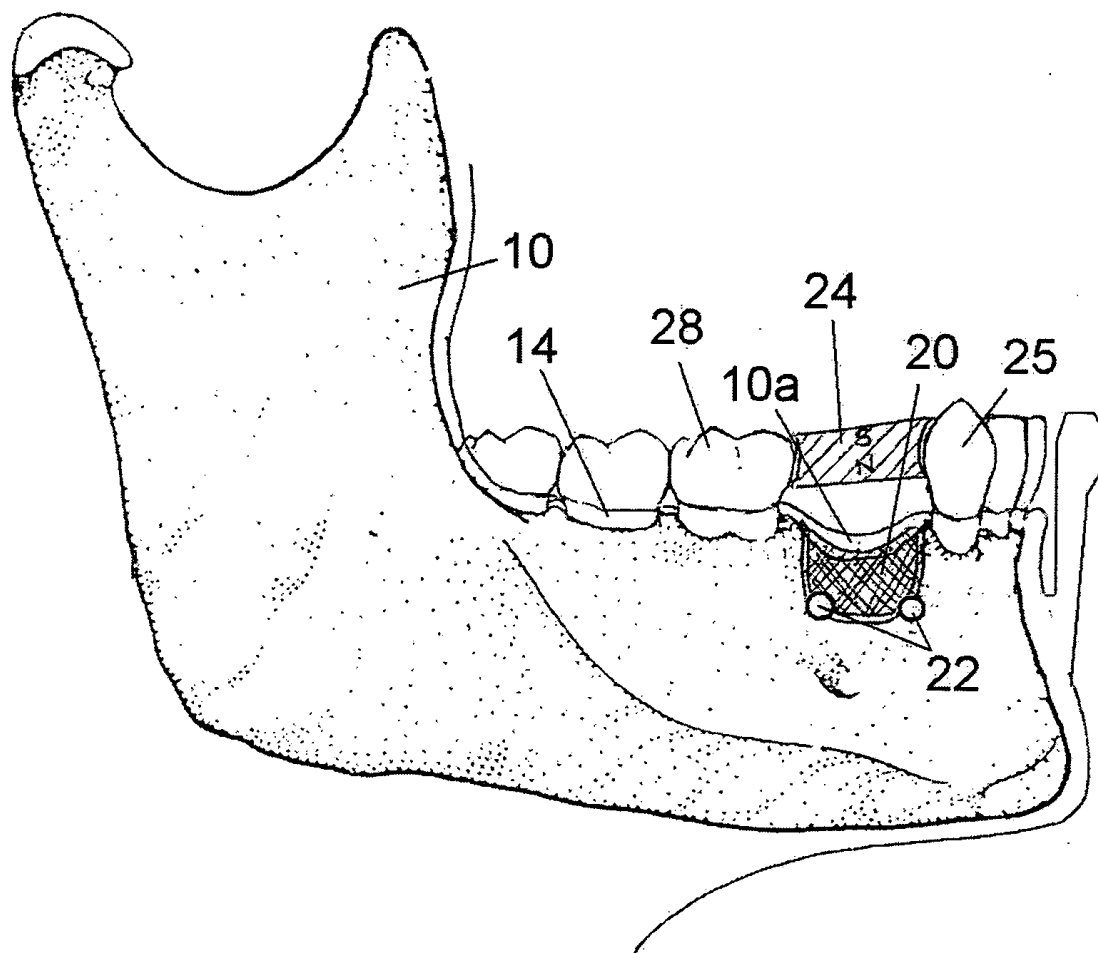
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Title

(US20050159755)

Bone growth via periosteal distraction

Images**Publication data including kind & date**[US20050159755](#)

A1 2005-07-21

US20050159755

[US20050159754](#)

A1 2005-07-21

US20050159754

Abstract

(US20050159755)

A periosteal distraction osteogenesis method and apparatus uses a sheet member for covering a surface of living bone that is, in turn, covered by soft periosteal tissue. The sheet member is under the soft tissue and over an area where bone growth outwardly and normally from the bone surface is desired. The method and apparatus requires distracting the sheet member away from the portion of the bone surface at which bone growth is desired, for causing growth of the bone outwardly and normally from the bone surface.

Inventors

ODRICH RONALD B