

SUPERINTENDENCIA DE INDUSTRIA Y COMERCIO	
RAD: 13-159901- -11	FECHA: 2015-12-21 11:58:50
DEP: 2020 DIRECCION DE NUEVAS CREACIONES	EVE: 1 REGISTRO/DEPOSITO/CONCESION/DEPOSITO
TRA: 2 PATENTES DE INVENCION	FOLIOS: 5
ACT: 519 TRASLADOINFORME	

DIRECCIÓN DE NUEVAS CREACIONES

2020
Bogotá, D.C.,

Abogado(a)/Señor(a)
JULIO JOSE SENEOR LOVNSTAMM

Asunto: Radicación: 13-159901- -11
Trámite: 2
Evento: 1
Actuación: 519
Oficio: 15467
Folios: 5

Patente de Invención	X			Patente de Modelo de Utilidad	
Vía Nacional	X				
Vía PCT (Fase Nacional)		Capítulo I		Capítulo II	
No. Solicitud Internacional					
Fecha de Presentación Internacional					

Como resultado del examen de fondo realizado, con fundamento en el Artículo 45 de la Decisión 486 de la Comisión de la Comunidad Andina, se comunica:

1. Documentos estudiados

Descripción	Rad. No. 13-159901-00000-0000	05 de julio de 2013
Reivindicaciones:	Rad. No. 13-159901-00007-0000	27 de febrero de 2015
Dibujos:	Rad. No. 13-159901-00000-0000	20 de junio de 2013

2. Objeto de la invención

De acuerdo con lo establecido en el numeral 1.2.2.2 del Capítulo Primero del Título X de la Circular Única para efectos del examen de patentabilidad, se tendrá en cuenta la tasa pagada por el solicitante al momento de comenzar el examen para las reivindicaciones adicionales; esto es que cuando la solicitud contenga más de diez (10) reivindicaciones y no se haya pagado la tasa complementaria, sólo se estudiarán las cubiertas por la tasa pagada. Por lo tanto, se estudiaran las reivindicaciones 1 a 9.

Título de la solicitud: “Implante de una pieza híbrido”.

El problema planteado en esta solicitud consiste en la necesidad de introducir un implante dental que permita una excelente adaptación del mismo al hueso y a los

tejidos blandos de la zona en la cual va a ser aplicado, así como mejorar la apariencia estética de dicho implante con respecto a las tecnologías actuales.

Para resolver este problema técnico, la solicitud en estudio proporciona un implante de una sola pieza híbrido titanio-circonio, donde el titanio es el componente relacionado con el hueso y el circonio es el componente relacionado con los tejidos blandos o encía y la cavidad oral o restauración. Por tanto y según un aspecto de la presente invención, se proporciona un implante de una sola pieza híbrido, que se caracteriza por la posibilidad de tener un material muy estético en la zona del muñón coronal y tejidos blandos, con un material altamente predecible en óseo integración, dentro de un solo elemento.

El objeto de la presente solicitud se relaciona con la Clasificación Internacional de Patentes (CIP): A61C8/00, L27/04, 27/30.

3. Excepción a la Patentabilidad (Art 20 D 486 literal (d))

El objeto de la reivindicación 8 no es patentable de acuerdo con el Art citado, ya que es un método quirúrgico de tratamiento humano al indicar el nivel de instalación del implante dental en el maxilar del paciente.

4. De la solicitud de patente

Reivindicaciones (Art 30 D 486)

Las reivindicaciones 1, 2, 5, no son claras porque:

- El término “virtual” es relativo por lo cual no permite distinguir la invención del estado de la técnica. Se sugiere sustituirlo por un término o rango concreto.
- El término: “preferiblemente” utilizado en la reivindicación 5 es impreciso, por lo cual no permite distinguir la invención del estado de la técnica. Se sugiere sustituirlo por un término preciso o un rango concreto.
- La característica reclamada como “*diferentes posibilidades de diámetros, longitudes, perfiles y angulaciones*” es muy general y no define la invención.

5. Determinación del Estado de la Técnica

El estado de la técnica se determinó con base en la fecha de presentación de la solicitud de patente nacional: 05 de julio de 2013, y se encontraron los siguientes documentos que anticipan el objeto de esta solicitud:

Ítem	Documento	Título	Fecha de Publicación*
D3	CO13110736	‘Sistema de implante de dos componentes, instalados en un solo tiempo quirúrgico, orientado a lograr unión al hueso de los dos componentes’	02 de mayo de 2013

De acuerdo con el Art 16 de la D486, “*Sólo para el efecto de la determinación de la novedad, también se considerará dentro del estado de la técnica, el contenido de una solicitud de patente en trámite ante la oficina nacional competente, cuya fecha de presentación o de prioridad fuese anterior a la fecha de presentación o de prioridad de*

la solicitud de patente que se estuviese examinando, siempre que dicho contenido esté incluido en la solicitud de fecha anterior cuando ella se publique o hubiese transcurrido el plazo previsto en el artículo 40”.

El documento D3¹ revela un sistema de implante de dos componentes el cual se puede convertir en un implante de una pieza, evitando los inconvenientes del uso de las conexiones a nivel de margen óseo. (Pág. 27, Renglón 7 a 11).

6. Examen de Patentabilidad (Art 14 D486)

Novedad (Art 16 D486)

La reivindicación 1 consiste en: “Un implante dental de una pieza híbrido (R), que se caracteriza por comprender: Un implante “virtual” (P) fabricado en titanio: Un abutment “virtual” (Q) que comprende dos zonas fabricadas en dos materiales distintos...” (Pág. 8 del radicado No 13-159901-00007-0000).

Comparación de las características técnicas esenciales, con las del estado de la técnica:

Características esenciales	D3
- Un abutment que comprende dos zonas fabricadas en dos materiales distintos: una zona de titanio y una zona en circonio, en donde en dicha zona de circonio se presenta una concavidad cervical en todo su contorno.	Un abutment (Q) que comprende dos zonas fabricadas en dos materiales distintos: una zona (Q1) de titanio y una zona (Q2) en circonio, en donde en dicha zona de circonio se presenta una concavidad cervical (CC) en todo su contorno. (Folio. 7, Pág. 8, Renglones 1 a 16).
- Una emergencia (EM) que presenta tres tipos de perfiles,	Una emergencia (EM) que presenta tres tipos de perfiles. (Folio. 7, Pág. 7, Renglones 60 a 63).
- Un festón (FE) que es un collar de espesor variable, que va desde la denominada unión del abutment (Q) y del implante (P), hasta el comienzo de la zona de circonio (unión entre Q1-Q2), en donde su espesor es de 1 mm en las caras lingual y vestibular o 2 mm en las caras mesial y distal (2-D) o (3-D),	- Un festón (FE) que es un collar de espesor variable, que va desde la denominada unión del abutment (Q) y del implante (P), hasta el comienzo de la zona de circonio (unión entre Q1-Q2), en donde su espesor es de 1 mm en las caras lingual y vestibular o 2 mm en las caras mesial y distal (2-D) o (3-D). (Folio. 13, Pág. 16, Rev. 6, Renglón 36 a 41)
- Un collar de espesor no variable, que va hasta las líneas de terminación de las coronas o en la interface entre el circonio (Q2) y el circonio de muñón o plataforma (Q3).	- Un collar de espesor no variable, que va hasta las líneas de terminación de las coronas o en la interface entre el circonio (Q2) y el circonio de muñón (Q3). (Folio. 13, Pág. 16, Rev. 6, Renglón 42 a 44)
- Un canal de inserción (CI) o conducto metálico, que va desde el implante (P) hasta la parte más superficial del muñón coronal (MC) y comprende un componente anti rotacional a nivel profundo, o una llave de inserción (LLi) o diseño externo del implante (P), que va desde el abutment (Q) hacia el exterior, con un componente anti rotacional.	- Un canal de inserción o conducto metálico, que va desde el implante (P) hasta la parte más superficial del muñón coronal (MC) y comprende un componente anti rotacional a nivel profundo. (Folio 20, Pág. 23, Fig. 7).

De acuerdo con la tabla anterior, las características esenciales del mecanismo reclamado en la reivindicación 1 habían sido divulgadas previamente en el documento D3, por lo tanto, la materia reivindicada no es nueva.

Asimismo, el documento D3 divulga las características de las reivindicaciones dependientes así:

Reivindicación 2. Tres perfiles de emergencia (EM) son: TIPO A: Perfil recto desde el nivel superficial óseo (Q1) y en la zona cervical de circonio (Q2); TIPO B: Emergencia angulada a partir del comienzo de la zona de circonio; TIPO C: Emergencia angulada desde el punto de unión entre el implante (P) con el abutment (Q). (Folio 11, Pág. 14, Renglón 1 a 11, Fig. 6).

Reivindicación 3. El implante dental que contiene un festón (FE) de espesor variable. (Folio. 13, Pág. 16, Rev. 6, Renglón 36 a 41)

Las reivindicaciones dependientes 2 y 3 no mencionan alguna característica que haga nuevo al implante dental de la reivindicación 1, por lo cual se considera que no son nuevas.

7. Conclusión

Los requisitos de Patentabilidad de la presente solicitud están afectados así:

Ítem	Documento	Reivindicaciones afectadas	Requisito que afecta
D3	CO13110736	1-3	Novedad/Nivel Inventivo

En cumplimiento del artículo 45 de la Decisión 486 de la Comisión de la Comunidad Andina, se le indica que debe dar respuesta dentro del término de sesenta (60) días contados a partir del día siguiente de la fecha de notificación de la presente comunicación. En caso de no dar respuesta al presente requerimiento, o si a pesar de la respuesta subsistieran los impedimentos para la concesión, se denegará la patente.

Se invita al solicitante se sirva indicar, si así lo considera, su renuncia al término faltante de sesenta (60) días para dar respuesta a este requerimiento y presentarla por escrito.

Finalmente, se le recuerda al solicitante que si como respuesta a este requerimiento llegara a modificar el capítulo reivindicatorio y éste contenga más de diez (10) reivindicaciones, no pagará la tasa de modificación voluntaria pero sí la correspondiente al pago por reivindicación adicional.

Notifíquese el presente oficio conforme a lo dispuesto en el numeral 5.2, literal e), del capítulo quinto del título primero de la Circular Única No. 10 de 2001.



JOSÉ LUIS SALAZAR LÓPEZ
Director de Nuevas Creaciones (c)

El anterior requerimiento fue notificado por fijación en lista, de fecha 2015-12-29

Elaboró: Jesus Alejandro Velasquez Salgado
Revisó: Rachid Ponce Vergel

jesusvelasquez

Search history

- Search 1: TAC=(pretreatment of the biomas and heating and steam) (Results 0)
- Search 2: TAC=(pretreatment and heating and steam) (Results 916)
- Search 3: TAC=(pretreatment and heating and steam and catalyst) (Results 140)
- Search 4: TAC=(lignocellulosic and biomass and pretreatment and heating and steam and catalyst) (Results 8)
- Search 5: TAC=(implant and with and ceramic and coating and method) (Results 696)
- Search 6: TAC=(implant and with and ceramic and coating and method) and EC=(A61C8/00) (Results 2)
- Search 7: TAC=(implant and with and ceramic and coating and method) and EC=(A61C) (Results 93)
- Search 8: TAC=(implant and with and ceramic and coating and method and FOR and CERAMIC and COATING) and EC=(A61C) (Results 90)
- Search 9: TAC=(implant and with and ceramic and coating and method and FOR and CERAMIC and COATING) and EC=(A61C8) (Results 64)
- Search 10: TAC=(implant and with and ceramic and coating and method and FOR and CERAMIC and COATING) and EC=(A61C8/00) (Results 2)
- Search 11: TAC=(implant and with and ceramic and coating and method and FOR and CERAMIC and COATING) and EC=(A61C8) (Results 64)
- Search 12: TAC=(implant and with and ceramic and coating and method and FOR and CERAMIC and COATING and implant) and EC=(A61C8) (Results 64)

Title: TOOTH REPLACEMENT

Abstract: Source: US3717932A A dental **implant** member **for** attachment to an artificial-tooth crown consists of or is externally **coated with** an impermeable carbon. The **implant** is preferably cone shaped and most preferably has external splines along the length.

Classifications:

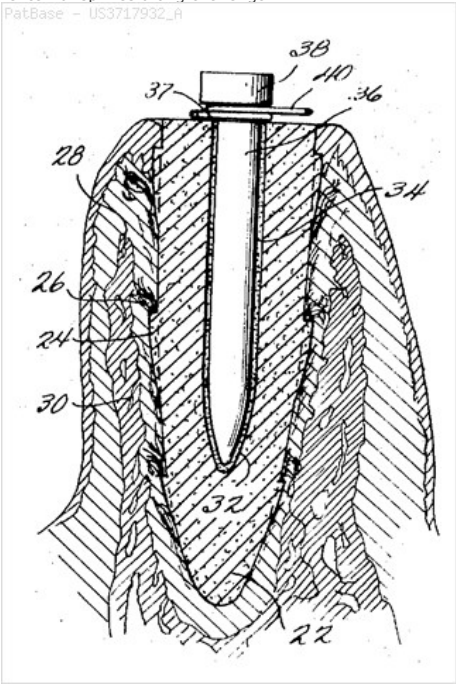
International (IPC 8-9): A61C13/08 A61C13/30 A61C8/00 A61K6/027 (Advanced/Invention); A61C13/08 A61C13/225 A61C8/00 A61K6/02 (Core/Invention)

International (IPC 1-7): A61C13/00 A61C13/08 A61C13/10 A61C13/22 A61C13/26 A61C13/30 A61C5/12 A61C8/00

CPC: A61C8/0036 A61C8/0012 A61C8/0066 A61C8/0018 A61C8/005 A61C8/0063 A61C8/0069 A61C13/30

European: A61C13/30 A61C8/00E A61C8/00F A61C8/00F9 A61C8/00G1 A61C8/00G1P A61C8/00G1T A61K6/027 K61C8/00G1L K61C8/00G1T

US: 32/1.0A 433/173 433/175 433/201.1



Family:

Publication number	Publication date	Application number	Application date
AR194598 A1	19730731	AR19720242513	19720613
AU197475265 A1	19760513	AU19740075265	19741112
BR7202932 A0	19731206	BR19720002932	19720510
CA958925 A1	19741210	CA19710106703	19710302
CA993693 A1	19760727	CA19730164424	19730223
DE2111325 A1	19711104	DE19712111325	19710310
DE2111325 B2	19731004	DE19712111325	19710310
DE2111325 C3	19740502	DE19712111325	19710310
DE2308962 A1	19730906	DE19732308962	19730223
DE7108907 U	19740110	DE19710008907U	19710310
FR2084522 A5	19711217	FR19710008606	19710312
FR2173350 A2	19731005	FR19730007409	19730221
FR2173350 B2	19770902	FR19730007409	19730221
GB1295966 A	19721108	GB19700013196	19700319
GB1320655 A	19730620	GB19710027282	19710419
GB1431563 A	19760407	GB19730009407	19730226
JP49019690 A2	19740221	JP19730021367	19730223
JP4919690 A2	19740221	JP19730021367	19730223
JP50010080 B4	19750418	JP19730021367	19730223
JP51018758 B4	19760611	JP19710014973	19710317
JP800410 C3	19760112	JP19730021367	19730223
SE368148 B	19740624	SE19710003087	19710310
US3717932 A	19730227	US19700042069	19700601
US3797113 A	19740319	US19720228843	19720224
US3849887 A	19741126	US19730342169	19730316

Priority:

AR19640191512 19640101	GB19700013196 19700319	AU19740075265 19741112
US19730342169 19730316	US19700042069 19700601	US19720228843 19720224

Probable Assignee: VITREDENT CORP

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Assignee(s): VITREDENT CORP US ; VITREDENT CORP N D GES D STAATES DELAWARE LOS AN ; VITRADENT CORP US ; VITREDENT CORP N D GES D STAATES DELAWARE LOS ANGELES CALIF V ST A ; GAF CORP 00

Inventor(s): (std): BRAININ HERBERT ; BRAININ H

Inventor(s): BRAININ H US ; BRAININ HERBERT LOS ANGELES CALIF V ST A ; BRAININ HERBERT LOS ANGELES CALIF VSTA ; HERBERT BRAININ

Title: ENDOSSEOUS **IMPLANTS**

Abstract: Source: US4145764A An improved **implant** comprising a metallic base material and a **coating** layer of a **ceramics** which is formed by thermally sprayed firstly a bonding agent and secondly **ceramic** powders (optionally containing a porcelain) around the outersurface of the metallic base material. The **implant** has a sufficient mechanical strength (e.g. impact strength) and hence an excellent break-resistance and further a good affinity to tissues of living bodies and is useful **for** implantation in various bones including tooth roots and joints in living bodies.

Classifications:

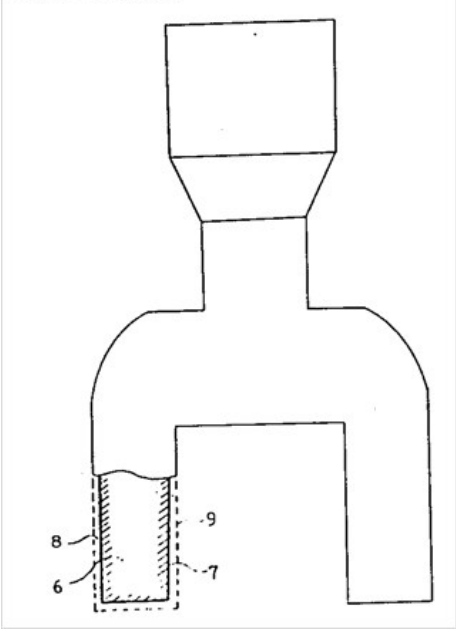
International (IPC 8-9): A61C8/00 A61F2/28 A61F2/30 A61K6/06 A61L27/04 A61L27/30 (Advanced/Invention); A61F2/00 (Advanced/Non-invention); A61C8/00 A61F2/28 A61F2/30 A61K6/02 A61L27/00 (Core/Invention); A61F2/00 (Core/Non-invention)

International (IPC 1-7): A61C13/00 A61C13/30 A61C8/00 A61F1/00 A61F1/24 A61F2/28 A61K5/02 A61K5/08 B05D1/02 B05D5/00

CPC: A61K6/0017 A61K6/0044 A61K6/0235 A61K6/024 A61K6/04 A61C8/0012 A61C8/0013 A61F2/30767 A61F2002/30906 A61F2310/00592 A61F2310/00604 A61F2310/00616 A61F2310/00634 A61L27/04 A61L27/306

European: A61C8/00E A61C8/00E1 A61F2/30L A61K6/06 A61L27/04 A61L27/30R K61F2/30L3 K61F310/00L6 K61F310/00L6A13 K61F310/00L6A22 K61F310/00L6A40
US: 427/2.27 427/453 433/176 606/76 623/23.6

PatBase - US4145764_R



Family:

Publication number	Publication date	Application number	Application date
AU197616211 A1	19780126	AU19760016211	19760723
AU502473 B2	19790726	AU19760016211	19760723
BE844491 A1	19770124	BE19760169215	19760723
CA1084202 A1	19800826	CA19760257592	19760722
DE2633213 A1	19770224	DE19762633213	19760723
FR2318617 A1	19770218	FR19760022417	19760722
FR2318617 B1	19801003	FR19760022417	19760722
GB1548413 A	19790711	GB19760030448	19760721
IT1069525 A	19850325	IT19760068837	19760722
JP52014095 A2	19770202	JP19750090406	19750723
NL181903 B	19870701	NL19760008237	19760723
NL181903 C	19871201	NL19760008237	19760723
NL7608237 A	19770125	NL19760008237	19760723
US4145764 A	19790327	US19760707716	19760721

Priority:

JP19750090406 19750723 CA19760257592 19760722

Probable Assignee: SUMITOMO CHEMICAL CO

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Inventor(s): (std): SHIOZIRI NAGANO JAPAN ; SUZUKI K ; SUZUKI KAZUO ; YOSHIZAWA H ; YOSHIZAWA HIDEKI ; ITO M ; ITO MICHIO ; ITOU MITSUO

Inventor(s): KAZUO SUZUKI HIDEKI YOSHIZAWA ET MICHIO ITO ; MICHIO ITO ; KAZUO SUZUKI ; HIDEKI YOSHIZAWA ; M ITO ; K SUZUKI ; H YOSHIZAWA

Agent(s): KIRBY EADES GALE BAKER

Title: Implants for bones, joints and tooth roots

Abstract: Source: US4146936A An improved implant for a bone, a joint and tooth root comprising a metallic base material and a coating layer of hydroxyapatite which is formed by thermally sprayed hydroxyapatite powder or a mixture of hydroxyapatite powder and ceramic powder around the outer surface of the metallic base material, optionally a layer of a bonding agent and further a layer of ceramics are formed between the metallic base material and the layer of hydroxyapatite. The implant has a sufficient mechanical strength (e.g. impact strength) and further a good affinity to tissues of living bodies and is useful for implantation in various bones including tooth roots in living bodies.

Classifications:

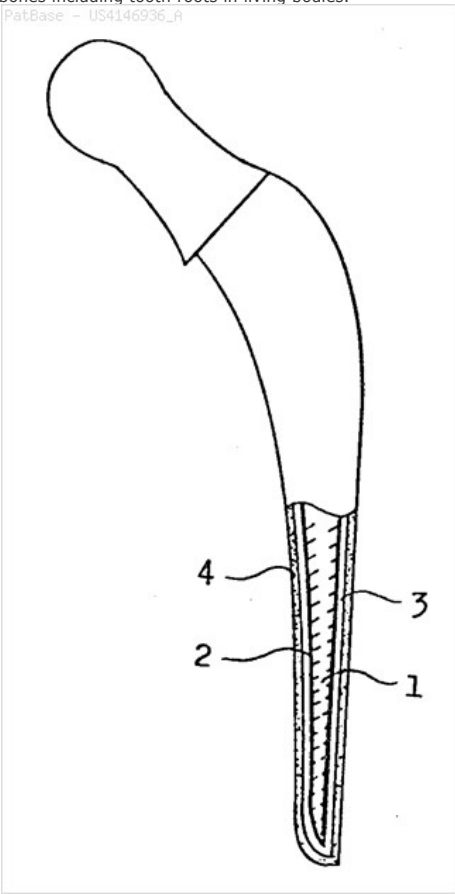
International (IPC 8-9): A61C13/30 A61C8/00 A61F2/00 A61F2/28 A61F2/30 A61F2/36 A61L27/00 A61L27/04 A61L27/32 C23C4/02 (Advanced/Invention); A61F2/00 A61F2/30 (Advanced/Non-invention); A61C13/225 A61C8/00 A61F2/00 A61F2/28 A61F2/30 A61F2/36 A61L27/00 C23C4/02 (Core/Invention); A61F2/00 A61F2/30 (Core/Non-invention)

International (IPC 1-7): A61C13/00 A61C13/08 A61C13/30 A61C8/00 A61D1/00 A61F1/00 A61F1/24 C04B35/00 C04B37/02 C22C14/00 C22C19/00 C22C27/02 C22C38/40

CPC: A61F2/00 A61F2/36 A61F2/30767 A61C8/0012 A61C8/0013 A61C13/30 A61F2002/30929 A61F2310/00592 A61F2310/00796 A61L27/04 A61L27/32 A61L2430/02 C23C4/02

European: A61C13/30 A61C8/00E A61C8/00E1 A61F2/00 A61F2/30L A61F2/36 A61K6/033 A61L27/04 A61L27/32 C23C4/02 K61F2/30L8 K61F310/00L6 K61F310/00L6E K61L430/02

US: 427/2.27 433/176 623/23.57



Family:

Publication number	Publication date	Application number	Application date
CH609555 A	19790315	CH19760016489	19761230
DE2659591 A1	19770707	DE19762659591	19761230
FR2336913 A1	19770729	FR19760039482	19761229
FR2336913 B1	19790323	FR19760039482	19761229
GB1530670 A	19781101	GB19760054375	19761230
IT1074408 A	19850420	IT19760070151	19761230
JP1218001 C3	19840717	JP19760103035	19760827
JP1329296 C3	19860730	JP19750158745	19751230
JP52082893 A2	19770711	JP19750158745	19751230
JP53028997 A2	19780317	JP19760103035	19760827
JP58039533 B4	19830830	JP19750158745	19751230
JP58050737 B4	19831112	JP19760103035	19760827
SE416443 B	19810105	SE19760014566	19761227
SE416443 C	19810423	SE19760014566	19761227
SE7614566 A	19770701	SE19760014566	19761227
SE7614566 L	19770701	SE19760014566	19761227
US4146936 A	19790403	US19760755137	19761229

Priority:
JP19750158745 19751230 JP19760103035 19760827

Probable Assignee: SUMITOMO CHEMICAL CO

Assignee(s): (std): SUMITOMO CHEM CO LTD ; SUMITOMO CHEMICAL CO ; SUMITOMO CHEMICAL CO LTD

Assignee(s): SUMITOMO CHEMICAL COMPANY LIMITED ; SUMITOMO CHEMICAL CY LTD

Inventor(s): (std): AOYAGI M ; AOYAGI MASAYA ; AOYANAGI MASAYA ; HAYASHI M ; HAYASHI MIKIO ; KAWANISHI HYOGO ; M AOYAGI ; M HAYASHI ; MASAYA AOYAGI ; MIKIO HAYASHI ; Y YAO ; Y YOSHIDA ; YAO RIYOUSUKE ; YAO RYOSUKE ; YAO Y ; YAO YOSHIKI ; YASUYUKI YOSHIDA ; YOSHIKI YAO ; YOSHIDA KIYOSHII ; YOSHIDA Y ; YOSHIDA YASUYUKI

Inventor(s): MASAYA AOYAGI MIKIO HAYASHI YASUYUKI YOSHIDA ; MASAYA AOYAGI MIKIO HAYASHI YASUYUKI YOSHIDA ET YO ; MASAYA AOYAGI MIKIO HAYASHI YASUYUKI YOSHIDA ET YOSHIKI YAO

Title: Endosseous plastic **implant method**

Abstract: Source: US4199864A Nontoxic polymeric plastic medical **implants for** endosteal and periosteal applications such as filling bone defects, replacing entire bony parts, and tooth replacement either immediately after extraction or subsequent to healing, and a **method** of fabricating such **implants** to produce a porous surface having a predetermined pore size, pore depth, and degree of porosity. The **method** of fabrication of the porous portion of the **implant** involves adding sodium chloride crystals or other nontoxic leachable substance of controlled particle size corresponding to the desired pore size to a powdered polymer-liquid monomer mixture in relative amounts corresponding to the desired degree of porosity. After heat polymerization without an initiator, followed by abrasive removal of the resulting surface skin, the salt is leached from the plastic to provide said porosity. To obtain bone ingrowth in the case of intraosseous implantation, the pore size must be 200-400 microns, whereas pore size **for** soft tissue ingrowth should be 50-150 microns.

Classifications:

International (IPC 8-9): A61B17/68 A61C8/00 A61F2/30 A61K6/083 A61L27/16 B29C67/20 C08J9/26 (Advanced/Invention);

A61F2/28 A61F2/30 A61F2/36 (Advanced/Non-invention);

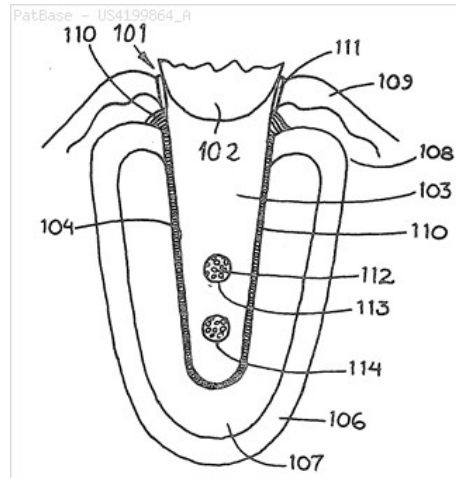
A61C8/00 A61F2/30 A61K6/02 A61L27/00 B29C67/20 (Core/Invention)

International (IPC 1-7): A61C13/08 A61C13/22 A61C13/30 A61C8/00 A61F1/00 A61F1/24 B29D27/00 B29D31/00

CPC: A61C8/0012 A61C8/0016 A61C8/0036 A61F2/30767 A61K6/083 A61L27/16 B29C67/202 A61B17/68 A61F2/2803 A61F2/3094 A61F2/3609 A61F2002/30785 A61F2002/3682 C08J9/26

European: A61B17/68 A61C8/00E A61C8/00E3 A61C8/00F9 A61F2/30L A61K6/083 A61L27/16 B29C67/20C C08J9/26 K61F2/28B K61F2/30L2A9P K61F2/30M K61F2/36C K61F2/36D8A5

US: 433/175 433/176 433/201.1 433/223



Family:

Publication number	Publication date	Application number	Application date
AU197620800 A1	19780629	AU19760020800	19761222
AU510599 B2	19800703	AU19760020800	19761222
CA1087801 A1	19801021	CA19760268232	19761220
DE2658716 A1	19770714	DE19762658716	19761222
ES454460 A1	19780116	ES19760454460	19761221
ES463339 A1	19781116	ES19770463339	19771019
ES472607 A1	19791101	ES19780472607	19780816
FR2336115 A1	19770722	FR19760038583	19761221
FR2336115 B1	19801010	FR19760038583	19761221
GB1576418 A	19801008	GB19760053377	19761221
JP52090187 A2	19770728	JP19760153507	19761222
US4199864 A	19800429	US19770854031	19771122
US4244689 A	19810113	US19780919711	19780627

Priority:

US19750643405 19751222 CA19760268232 19761220 US19770854031 19771122
US19780919711 19780627

Probable Assignee: ASHMAN A

Assignee(s): (std): ASHMAN A ; ASHMAN ARTHUR ; ASHMAN ARTHUR DR ; AASAA ATSUSHIYUMAN

Assignee(s): ARTHUR ASHMAN ; UNITED STATES SURGICAL CORP ; UNITED STATES SURGICAL A NEW YORK CORP CORP

Inventor(s): (std): ASHMAN ARTHUR DR ; ASHMAN ARTHUR ; ARTHUR ASHMAN ; AASAA ATSUSHIYUMAN

Agent(s): PHILLIPS ORMONDE FITZPATRICK; GOWLING LAFLEUR HENDERSON LLP

Title: **IMPLANTS FOR** BONES, JOINTS OR TOOTH ROOTS

Abstract: Source: US4223412A **Implants for** bones, joints or tooth roots having sufficient mechanical strength, excellent compatibility **with** living tissues and other advantageous properties can be obtained by thermally spraying a mixture of **ceramics** and hydroxyapatite onto a shaped core which is made of **ceramics**, thereby forming a **coating** layer of the mixture around the surface of the core.

Classifications:

International (IPC 8-9): A61C8/00 A61L27/00 A61L27/32

C04B41/87 (Advanced/Invention);

A61F2/00 (Advanced/Non-invention);

A61C8/00 A61L27/00 C04B41/87 (Core/Invention);

A61F2/00 (Core/Non-invention)

International (IPC 1-7): A61C13/00 A61C13/08 A61C13/30 A61C8/00 A61F1/00

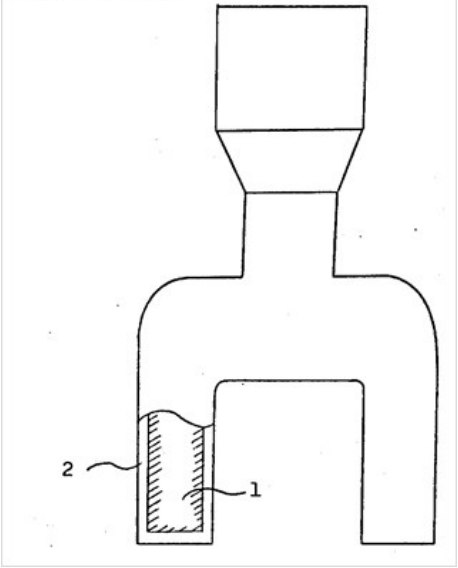
A61F1/24 C04B35/84 C04B41/00 C04B41/06

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European: A61C8/00E A61C8/00E1 A61K6/033 A61L27/32 K61F310/00L6E

US: 433/176 433/201.1 623/23.6

PatBase - US4223412_A



Family:

Publication number	Publication date	Application number	Application date
DE2755751 A1	19780622	DE19772755751	19771214
FR2374019 A1	19780713	FR19770037855	19771215
FR2374019 B1	19820205	FR19770037855	19771215
GB1550575 A	19790815	GB19770052243	19771215
JP1311065 C3	19860411	JP19760151725	19761216
JP53075209 A2	19780704	JP19760151725	19761216
JP59046911 B4	19841115	JP19760151725	19761216
US4223412 A	19800923	US19770860958	19771215

Priority:

JP19760151725 19761216

Probable Assignee: SUMITOMO CHEMICAL CO

Assignee(s): (std): SUMITOMO CHEMICAL CO

Assignee(s): SUMITOMO CHEMICAL CO LTD ; SUMITOMO CHEMICAL COMPANY LIMITED ; SUMITOMO CHEMICAL CY LTD

Inventor(s): (std): YAO YOSHIKI ; YOSHIDA YASUYUKI ; YOSHIDA KIYOSHI ; YAO RIYOSUKE ; AOYANAGI MASAYA ; AOYAGI MASAYA ; HAYASHI MIKIO ; KAWANISHI HYOGO

Inventor(s): MASAYA AOYAGI MIKIO HAYASHI YASUYUKI YOSHIDA ET YO ; YAO RYOSUKE ; MASAYA AOYAGI MIKIO HAYASHI YASUYUKI YOSHIDA... ; MASAYA AOYAGI MIKIO HAYASHI YASUYUKI YOSHIDA ET YOSHIKI YAO

Title: **METHOD** OF BONDING A BIOGLASS TO METAL

Abstract: Source: US4159358A A **method** of bonding a bioglass layer to a metal substrate comprising heating the metal substrate having a roughened, oxidized surface to about a temperature at which the expansion of the metal is substantially equal to that of the bioglass at the temperature above which the thermal expansion of the bioglass is non-linear, immersing the heated metal surface in molten bioglass, the time of immersion being of such duration that the temperature of the metal does not rise substantially above the temperature to which it is heated, allowing the **coated** substrate to cool whereby the bioglass layer is bonded to the metal substrate by ion diffusion and thermo-mechanical stresses in the bioglass and metal layer are relieved at a substantially equal rate and the product produced by said process.

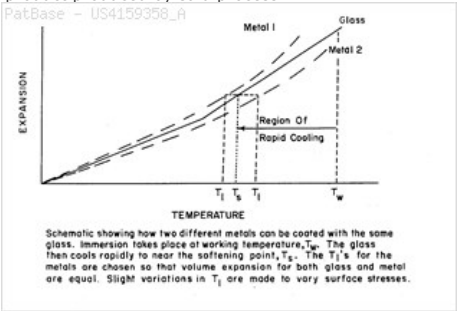
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International (IPC 1-7): A61C13/00 A61C8/00 A61F1/00 A61F1/24 A61F2/00 A61F2/02 A61F5/00 A61K33/24 A61K5/00 B05D3/02 B32B C03C27/00 C03C27/02 C03C29/00 C03C3/04 C03C3/22 C03C3/30 C22C38/44 C22C5/04 C23D13/00 C23D5/02 C23D5/04 **CPC:** A61F2310/00592 C03C4/0007 A61C8/0012 A61C8/0013 A61F2/30767 A61F2310/00796 A61F2310/00928 A61L27/306 A61L27/32 C03C27/02 C23D5/04

European: A61C8/00E A61C8/00E1 A61F2/30L A61K6/06 A61L27/30R A61L27/32 C03C27/02 C03C4/00B C23D5/04 K61C8/00E1 K61F310/00L6 K61F310/00L6E K61F310/00L8

US: 427/318 427/330 427/374.6 427/398.1 427/435 428/432 428/433 428/434 606/70 606/76 623/23.57 65/59.1



Family:

Publication number	Publication date	Application number	Application date
AT296878 A	19820915	AT19780002968	19780425
AT370617 B	19830425	AT19780002968	19780425
AU504017 B1	19790927	AU19780035297	19780420
BE866323 A1	19781025	BE19781008858	19780425
BR7802572 A	19781219	BR19780002572	19780426
CA1102953 A1	19810616	CA19780302060	19780426
CH631143 A	19820730	CH19780004542	19780426
DE2818630 A1	19781123	DE19782818630	19780425
DE2818630 C2	19811008	DE19782818630	19780425
DK151641 B	19871221	DK19780001811	19780426
DK151641 C	19880704	DK19780001811	19780426
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ES469173 A1	19790916	ES19780469173	19780426
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GR68894 B	19820315	GR19780055992	19780415
IE46804 B	19830921	IE19780000820	19780425
IE780820 L	19781119	IE19780000820	19780425
IT1104191 A	19851021	IT19780049101	19780427
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JP1151070 C3	19830614	JP19780048635	19780424
JP53145394 A2	19781218	JP19780048635	19780424
JP57041941 B4	19820906	JP19780048635	19780424
LU79539 A	19781128	LU19780079539	19780427
MX6771 U	19860704	MX19780100971U	19780529
NL7804395 A	19781121	NL19780004395	19780425
NO144126 B	19810323	NO19780001395	19780420
NO144126 C	19810701	NO19780001395	19780420
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SE439730 B	19850701	SE19780004881	19780427
SE439730 C	19851010	SE19780004881	19780427
SE7804881 A	19781120	SE19780004881D	19780427
US4159358 A	19790626	US19770798671	19770519
US4234972 A	19801125	US19780917646	19780621
ZA7802401 A	19790530	ZA19780002401	19780426

Priority:

US19770798671 19770519 CA19780302060 19780426 MX19780173538 19780529
US19780917646 19780621

Probable Assignee: FLORIDA UNIV OF

Assignee(s): (std): BOODO OBU RIIJIENTSU OBU JI UN ; FLORIDA STATE OF BOARD OF REGE ; UNIV FLORIDA ; REGENTS BOARD OF ; TALLAHASSEE FLORIDA U BOAR SA

Assignee(s): OF FLORIDA UNIV ; VENTURE FIRST II LP ; WASHINGTON RESOURCES GROUP INC ; REBUILDING SERVICES INC ; REBUILDING SERVICE INC ; KNELLINGER RICHARD M ; UNIVERSITY OF FLORIDA BOARD OF REGENTS OF THE ; UNIVERSITY OF FLORIDA ; THE BOARD OF REGENTS OF THE UNIVERSITY OF FLORIDA ; UNIV FLORIDA BOARD OF REGENTS ; OF FLORIDA BOARD OF REGENTS UNIV ; THE UNIVERSITY OF FLORIDA ; UNIVERSITY OF FLORIDA BOARD OF REGENTS ; HENCH LARRY L ; OF FLORIDA BOARD OF UNIV ; GRYPHON VENTURES LTD ; GRYPHON VENTURES I LTD ; HENCH LARRY ; GRYPHON VENTURES II LTD ; FLORIDA RESEARCH FOUNDATION INC ; GELTECH INC ; FLORIDA UNIV ; FLORIDA UNIVERSITY OF ; BOARD REGENTS UNIVERSITY FLORIDA ; FLORIDA STATE OF BOARD OF REGENTS ; FLORIDA RESEARCH FOUNDATION INC UNIV OF ; FLORIDA UNIV OF ; GRYPHON VENTURES I PARTNERSHIP LTD ; GRYPHON VENTURES II PARTNERSHIP LTD ; GRYPHON VENTURES PARTERSHIP LTD ; BUSCEMI PAUL J ; A TALLAHASSEE FLORIDA U S A BOARD OF REGENTS OF THE UNIVERSITY ; A TALLAHASSEE FLORIDA USA BOARD OF UNIV ; BOARD OF REGENTS ; BOARD OF REGENTS OF THE UNIVERSITY OF FLORIDA ; BOARD OF REGENTS OF THE UNIVERSITY OF FLORIDA TE TALLAHASSEE FLORIDA VER ST V AM ; BOARD OF REGENTS UNIV OF TEXAS SYSTEM ; BOARD OF UNIV OF FLORIDA ; BOARD OF UNIV OF FLORIDA TE TALLAHASSEE FLORIDA VER ST V AM ; BOARD REGENTS UNIV FLORIDA

Inventor(s): (std): HENCH L ; HENCH L L ; HENCH LARRY L ; HENCH LARRY LEROY ; HENCH LARRY LEROY PROF ; BUSCEMI P ; BUSCEMI P J ; BUSCEMI PAUL J ; BUSCEMI PAUL JOHN ; RARII REROI HENCHI ; POORU JIYON BATSUSEMI

Inventor(s): PAUL JOHN BUSCEMI ; P J BUSCEMI ; LARRY LEROY HENCH ; L L HENCH ; BUSCEMI PAUL JOHN GAINESVILLE FLA ; JOHN BUSCEMI PAUL ; LARRY LEROY HENCH ET PAUL JOHN BUSCEMI ; LEROY HENCH LARRY ; LL HENCH ; PJ BUSCEMI

Agent(s): GOWLING LAFLEUR HENDERSON LLP

Title: **IMPLANTABLE** BONE REPLACEMENT MATERIALS BASED ON CALCIUM PHOSPHATE **CERAMIC** MATERIAL IN A MATRIX AND PROCESS **FOR** THE PRODUCTION THEREOF

Abstract: Source: US4309488A An **implantable** bone replacement material (body) based on completely or partially resorbable particles incorporated in a matrix material. The particles are composed of bioactive sintered calcium phosphate **ceramic** material having a CaO:P2O5 composition ratio between 3:1 and 4:1. The replacement material (body) consists of a metal containing calcium phosphate **ceramic** material in the form of a monolayer of particles in the peripheral areas of the material (body) which serve as interfaces to the body tissue. The metal is compatible **with** body tissue. The **ceramic** particles have a size range between about 500 μ m and a few millimeters. The calcium phosphate particles are located so that they lie exposed on the upper surface of the material (body). Other embodiments and processes are also disclosed.

Classifications:

International (IPC 8-9): A61C8/00 A61F2/28 A61K6/033 A61L27/00 A61L27/32 A61L27/42 B22F7/00 B32B15/04 (Advanced/Invention); A61F2/00 A61F2/02 A61F2/30 (Advanced/Non-invention); A61C8/00 A61F2/28 A61K6/02 A61L27/00 B22F7/00 B32B15/04 (Core/Invention); A61F2/00 A61F2/02 A61F2/30 (Core/Non-invention)

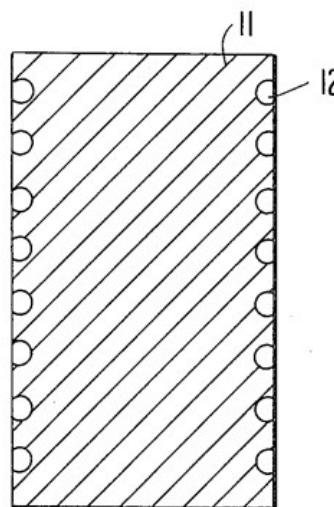
International (IPC 1-7): A61B17/18 A61C8/00 A61F1/00 A61F5/04 A61L27/00 B22F7/00 B32B15/04 C04B35/00 C04B37/02

CPC: A61C8/00 A61F2/30767 Y10T428/12021 A61L27/58 A61C8/0012 A61C8/0013 A61F2/28 A61F2002/30032 A61F2002/30062 A61F2002/30929 A61F2210/0004 A61F2250/003 A61F2310/00023 A61F2310/00796 A61L27/32 A61L27/427 A61L2430/02

European: A61C8/00 A61C8/00E A61F2/28 A61L27/32 A61L27/42R A61L27/58 K61C8/00E1 K61F2/30A1N14 K61F2/30A1W1 K61F2/30L K61F2/30L8 K61F210/00A K61F250/00N13 K61F310/00A2E K61F310/00L6E K61L430/02

US: 428/547 606/76 623/23.61

PatBase - US4309488_R



Family:

Publication number	Publication date	Application number	Application date
AT341 E	19811115	AT19790101946T	19790615
CA1121102 A1	19820406	CA19790330468	19790625
DE2827529 A1	19800103	DE19782827529	19780623
DE2827529 C2	19820930	DE19782827529	19780623
DE2857621 C2	19880331	DE19782857621	19780623
EP0006544 A1	19800109	EP19790101946	19790615
EP0006544 B1	19811104	EP19790101946	19790615
JP55008797 A2	19800122	JP19790079602	19790623
US4309488 A	19820105	US19790050627	19790621

Priority:

DE19782827529 19780623 DE19782857621 19780623 EP19790101946 19790615
CA19790330468 19790625

Probable Assignee: BATTELLE INST E V

Assignee(s): (std): BATTELLE INSTITUT E V ; BATTELLE INST E V

Assignee(s): BATTELLE INST EV ; BATTELLE INSTITUT E V 6000 FRANKFURT DE ; BATTELLE INSTITUT EV 6000 FRANKFURT DE ; ROTH ULRICH ; HEIDE HELMUT ; POESCHEL EVA

Inventor(s): (std): POESCHEL EVA DR ; ROTH ULRICH ; ROTH ULRICH ING GRAD ; HEIDE HELMUT DR ; URURITSUHI ROSU ; POESCHEL EVA DIPL CHEM DR ; POESCHEL EVA ; HERUMUUTO HAIDE ; HEIDE HELMUT ; EBA POESHIERU

Inventor(s): ROTH ULRICH ING ; POESCHEL EVA DR 6231 ALTENHAIN DE ; POESCHEL EVA DIPL CHEMDR ; ROTH ULRICH ING GRAD 6100 DARMSTADT DE

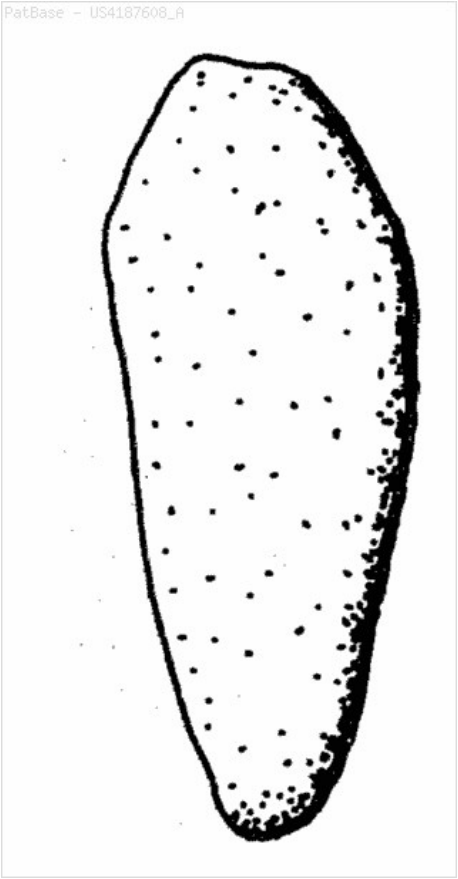
Agent(s): KIRBY EADES GALE BAKER

Designated states: AT BE CH FR GB IT LU NL SE

Title: Implantable teeth and method of making

Abstract: Source: US4187608A An implantable tooth for humans is made by first extracting the natural tooth and producing therefrom an exact replica of at least the root portion of the tooth, formed of porous metal or ceramic with or without the application of a surface coating of dental porcelain or the like to the replica. It is then permanently implanted in the natural tooth socket with or without a stabilizing means anchored to the underlying alveolar bone. It is contemplated that the method is also applicable to a complete tooth with the porosity localized in the root area. More usually, a porcelain cap or the like would be used to top the root prosthesis.

Classifications:
International (IPC 8-9): A61C13/30 A61C8/00 (Advanced/Invention)
International (IPC 1-7): A61C13/00
CPC: A61C8/0036 A61C13/30
European: A61C13/30 A61C8/00F9
US: 433/201 433/201.1



Family:

Publication number	Publication date	Application number	Application date
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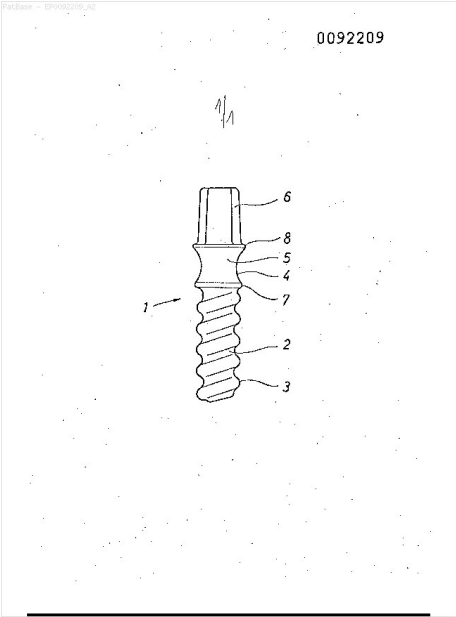
Priority:
US19730407085 19731017 US19760648307 19760112

Probable Assignee: NYCE ANDREW C
Assignee(s): (std): NYCE ANDREW C
Inventor(s): (std): NYCE ANDREW C

Title: Coated oral implant post and method of manufacturing it.

Abstract: 1. Oral implant post (1) consisting of metal, metal alloy or ceramic with a base portion (2) to be inserted into the bone which extends, by way of a glazed portion (9) of the neck zone (5), the glaze being formed from prefritted glass particles, into a mounting portion (6) for the replacement tooth, characterized in that the prefritted glass particles contain bonded particles of colouring pigment and the glaze (9) is applied only in the neck zone (5).

Classifications:
International (IPC 8-9): A61C8/00 (Advanced/Invention); A61C8/00 (Core/Invention)
International (IPC 1-7): A61C13/22 A61C8/00
CPC: A61C8/0022 A61C8/0012 A61C8/0013 A61C8/0075
European: A61C8/00E1 A61C8/00F2 A61C8/00G2 K61C8/00E



Family:

Publication number	Publication date	Application number	Application date
AT151982 A	19830715	AT19820001519	19820419
AT27901 E	19870715	AT19830103697T	19830416
AT373772 B	19840227	AT19820001519	19820419
DE3372166 D1	19870730	DE19833372166	19830416
EP0092209 A2	19831026	EP19830103697	19830416
EP0092209 A3	19840502	EP19830103697	19830416
EP0092209 B1	19870624	EP19830103697	19830416

Priority:
AT19820001519 19820419 AT19830103697T 19830416 EP19830103697 19830416

Probable Assignee: FELDMUEHLE AG

Assignee(s): (std): FELDMUEHLE AG

Assignee(s): FELDMUEHLE AKTIENGESELLSCHAFT ; FELDMUEHLE AG ; FELDMUEHLE AKTIENGESELLSCHAFT

Inventor(s): (std): PLISCHKA GERHARD DR

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

Title: Enossal **implant** and process **for** inserting an enossal **implant** in the jawbone

Abstract: Source: US4731085A The invention relates to an enossal **implant**, which comprises a primary cylinder (10) **with** a central longitudinal bore (13) which can be introduced into the jawbone and is anchored therein in positive and/or non-positive manner, as well as a secondary cylinder (100) insertable into the primary cylinder (10) and which has an oscillating rod (211) inserted and held in the longitudinal bore (13) and guide tube (30) of primary cylinder (10), said rod carrying an upper modular tube (220) made from an elastic material arranged at a distance from guide tube (30), accompanied by the formation of an air gap (225) and which is constructed at its free upper end **for** the connection of the dental prosthesis, whereas its lower end is connected in fixed or detachable manner to the primary cylinder (10), so that an **implant** is obtained which not only leads to a positive and non-positive connection to the bone and a load-free stabilization of the primary cylinder (10), but whose oscillating rod (211) absorbs the horizontal, vertical and torsional forces occurring in the mouth and diverts same into the bottom of the **implant**.

Classifications:

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

A61F2/00 (Advanced/Non-invention);

A61C8/00 (Core/Invention)

International (IPC 1-7): A61C8/00 A61F2/28

CPC: A61C8/00 A61C8/0036 A61C2201/007 A61F2210/0019 A61C8/0063 A61C8/0018

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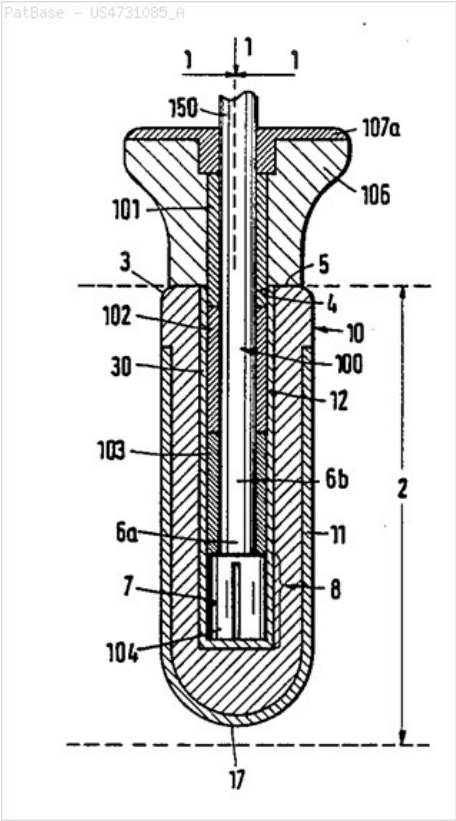
A61C8/0065

European: A61C8/00 A61C8/00F A61C8/00F9 A61C8/00G1 A61C8/00G1C

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K61C8/00G1F K61F210/00D2

US: 433/173 433/175 433/177 433/201.1 623/16 623/17.17



Family:

Publication number	Publication date	Application number	Application date
AT44867 E	19890815	AT19850113975T	19851104
AT64844 E	19910715	AT19850110095T	19851104
DE3440952 A1	19860515	DE19843440952	19841109
DE3515154 A1	19861106	DE19853515154	19850426
DE3532125 A1	19870319	DE19853532125	19850910
DE3571754 D1	19890831	DE19853571754	19851104
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EP0312698 A1	19890426	EP19880110095	19851104
EP0312698 B1	19910703	EP19880110095	19851104
US4731085 A	19880315	US19850795650	19851106
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Priority:

DE19843440952 19841109	DE19853515154 19850426	EP19850113975 19851104
DE19853583399 19851104	EP19880110095 19851104	DE19853532125 19850910
US19890095844 19890910	US19850795650 19851106	DE19853571754 19851104

Probable Assignee: IMPLANTO LOCK GMBH

Assignee(s): (std): IMPLANTO LOCK GMBH F IMPLAN ; IMPLANTO LOCK GMBH ; IMPLANTO LOCK GMBH FUER IMPLAN

Assignee(s): IMPLANTO LOCK GMBH FUER LMPLANTATFORSCHUNG UND ENTWICKLUNG ; IMPLANTO LOCK GMBH FUER IMPLANTATFORSCHUNG UND ENTWICKLUNG ; IMPLANTO LOCK GESELLSCHAFT MIT BESCHRAENKTER HAFTUNG FUR IMPLANTATFORSCHUNG UND ENTWICKLUNG ; IMPLANTO LOCK GMBH FUER IMPLANTATFORSCHUNG UND ENTWICKLUNG 2000 HAMBURG DE ; IMPLANTO LOCK GESELLSCHAFT MIT BESCHRAENKTER HAFTUNG FUER IMPLANTATFORSCHUNGUND ENTWICKLUNG ; IMPLANTO LOCK GES ; IMPLANTO LOCK GES MIT BESCHRAENKTER HAFTUNG FUR IMP ; IMPLANTO LOCK GES MIT BESCHRAENKTER HAFTUNG FUR IMPLANTATFORSCHUNG U ENTWICKLUNG ; IMPLANTO LOCK GESELLSCHAFT MIT BESCHRAENKTER HAFTUNG FUER IMPLANTATFORSCHUNG UND ENTWICKLUNG

Inventor(s): (std): KOCH WERNER LUTZ

Inventor(s): KOCH WERNER LUTZ W 3073 LIEBENAU DE ; LUTZ KOCH WERNER

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

Title: **METHOD FOR** PRODUCING ENDOSSEOUS **IMPLANTS**

Abstract: Source: US4818559A An improved **method for** producing endosseous **implants** by thermally spraying a **ceramic** material onto the surface of a metallic core material having a rough surface, i.e. a maximum surface roughness of 15 to 100 mu m, which can produce **implants** which have excellent characteristics in regard to the metallic material and **ceramic** material and do not dissolve out harmful metal ions. The endosseous **implants** are useful **for** implantation in various bones including tooth roots and joints in living bodies.

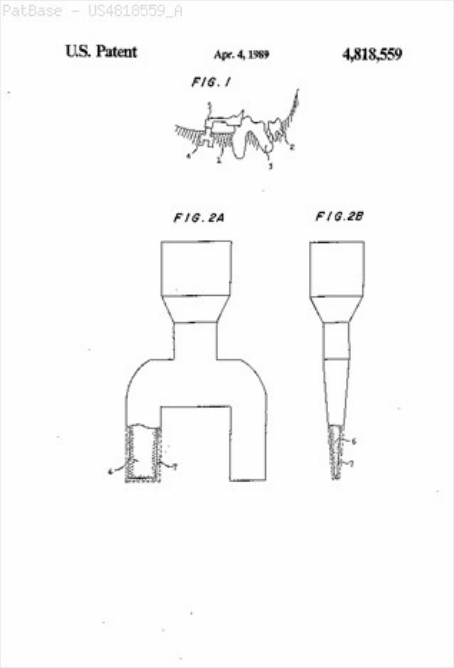
Classifications:

International (IPC 8-9): A61C8/00 A61F2/28 A61F2/30 A61K6/04 A61K6/06 A61L27/30 A61L27/32 C23C4/02 C23C4/10 (Advanced/Invention); A61F2/00 (Advanced/Non-invention); A61C8/00 A61F2/30 A61K6/02 A61L27/00 C23C4/02 C23C4/10 (Core/Invention); A61F2/00 (Core/Non-invention)

International (IPC 1-7): A01N1/02 A61C8/00 A61F2/28 A61F2/30 A61L27/00 B05D1/08 B05D3/00

CPC: B22F3/001 B22F7/08 Y10S623/923 C23C4/105 A61C8/0012 A61C8/0013 A61F2/30767 A61F2/3094 A61F2002/30906 A61F2310/00407 A61F2310/00604 A61F2310/00796 A61L27/306 A61L27/32 A61L2430/02 C23C4/02 C23C4/10 C23C4/10B K61C8/00E A61F2/30L A61L27/30R A61L27/32 C23C4/02 C23C4/10 K61F310/00L6E K61L430/02

US: 424/423 427/2 427/2.27 427/307 427/330 427/34 427/423 427/453 433/173 433/201.1 623/11 623/923



Family:

Publication number	Publication date	Application number	Application date
DE3679361 D1	19910627	DE19863679361	19860808
EP0212929 A2	19870304	EP19860306173	19860808
EP0212929 A3	19880406	EP19860306173	19860808
EP0212929 B1	19910522	EP19860306173	19860808
JP2123810 C3	19961220	JP19850175568	19850808
JP62034558 A2	19870214	JP19850175568	19850808
JP62034559 A2	19870214	JP19850175570	19850808
JP8029150 B4	19960327	JP19850175568	19850808
US4818559 A	19890404	US19860890286	19860729

Priority:

JP19850175570 19850808 JP19850175568 19850808

Probable Assignee: SUMITOMO CHEMICAL CO

Assignee(s): (std): SUMITOMO CHEMICAL CO

Assignee(s): SUMITOMO CHEMICAL CO LTD ; SUMITOMO CHEMICAL CO LTD OSAKA JP ; SUMITOMO CHEMICAL COMPANY LIMITED ; SUMITOMO CHEM CO LTD

Inventor(s): (std): HAMA MASAOKI ; ISHIMARU HIROSHI ; ISHIMARU YUTAKA ; WATANABE KEIICHIRO ; WATANABE KEIICHIROU

Inventor(s): WATANABE KEIICHIROU TOYONAKA SHI OSAKA FU JP ; ISHIMARU HIROSHI NIIHAMA SHI EHIME KEN JP ; HAMA MASAOKI SEATTLE WASHINGTON 98115 US

Designated states: CH DE FR GB IT LI SE

Title: Dental **implant**

Abstract: Source: US5007835A A screw-typed dental **implant** is featured having rounded threads **for** providing a controlled radial osteocompressive force against the threaded wall of bone tissue that was previously drilled and tapped. The thread profile provided by the tap is undercut below the external thread surface of the **implant** causing a compressive force to be exerted against the bone wall. The taps are designed to provide a given thread surface by varying the pitch angle. In this fashion, a greater undercut is provided **for** mandibular bone tissue as compared to maxillary bone tissue.

Classifications:

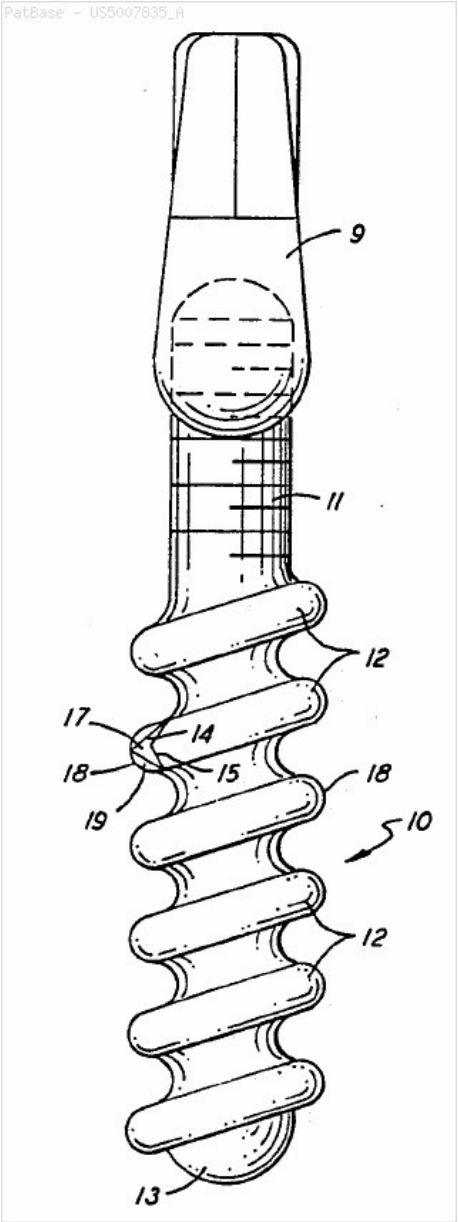
International (IPC 8-9): A61C8/00 (Advanced/Invention);
A61F2/30 (Advanced/Non-invention)

International (IPC 1-7): A61C8/00

CPC: A61C8/0022 A61C8/005 A61C8/0053 A61F2002/30866

European: A61C8/00F2 A61C8/00G1 A61C8/00G1B K61F2/30L2Q8

US: 433/174



Family:

Publication number	Publication date	Application number	Application date
US5007835 A	19910416	US19890394906	19890817

Priority:

US19890394906 19890817

Probable Assignee: VALEN MAURICE

Assignee(s): (std): VALEN MAURICE

Inventor(s): (std): VALEN MAURICE

Title: COMPOSITE BIOLOGICAL **IMPLANT** OF A **CERAMIC** MATERIAL IN A METAL SUBSTRATE

Abstract: Source: US5711763A A composite biotic **implant** of the invention is prepared by **coating** a metal substrate **with ceramic** particles preferably having bio-compatibility, and plastic working the **coated** substrate to cause plastic deformation of the metal substrate, thereby embedding the **ceramic** particles in a surface layer of the metal substrate. Optionally, **ceramic** material having bio-compatibility is **coated** over the surface of the **ceramic** particle embedded substrate. A composite **implant** exhibiting a firm bond is thus obtained.

Classifications:

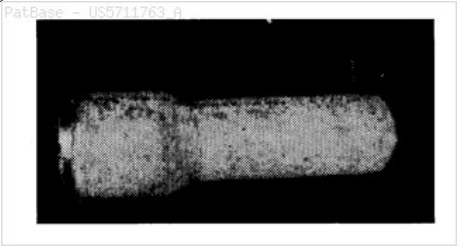
International (IPC 8-9): A61C8/00 A61F2/28 A61F2/30 A61K6/06 A61L27/30 (Advanced/Invention); A61F2/00 (Advanced/Non-invention)

International (IPC 1-7): A61F2/28 A61L27/00

CPC: A61K6/0008 A61K6/0017 A61K6/0044 A61K6/0215 A61K6/0235 A61K6/024 A61K6/033 A61K6/04 A61C8/0012 A61C8/0013 A61F2/28 A61F2/30767 A61F2/3094 A61F2310/00592 A61L27/30

European: A61C8/00E A61C8/00E1 A61F2/28 A61F2/30L A61K6/06 A61L27/30 K61C8/00E1 K61F2/30M K61F310/00L6

US: 424/423 433/201.1 606/76 623/11 623/16



Family:

Publication number	Publication date	Application number	Application date
EP0525210 A1	19930203	EP19920905106	19920220
EP0525210 A4	19930728	EP19920905106	19920220
US5711763 A	19980127	US19950497037	19950630
WO9214422 A1	19920903	WO1992JP00182	19920220

Priority:

JP19910045676 19910220 US19920839391 19920220 US19950497037 19950630
US19940251635 19940531

Probable Assignee: TDK CORP

Assignee(s): (std): TDK CORP

Inventor(s): (std): NONAMI TOHRU ; SATOH NAOYOSHI

Inventor(s): TDK CORP

Designated states: CH DE FR GB JP LI SE

Title: Composite biotic **implant** and **method** of making a composite biotic **implant**.

Abstract: Source: EP0607017A1 A composite biotic **implant** having improved bio-affinity and high durability in the living body is provided. **Ceramic** particles are embedded in a metal substrate to form an embedment layer wherein the particles are received in recesses in the substrate. In a cross section of the embedment layer, at least 5 percent of the recesses satisfy $A < B$ wherein A is the distance between opposed ends of the outside edge of the recess, and B is the maximum diameter of the **ceramic** particle. Alternatively or additionally, at least 5 percent of the recesses satisfy that at least one end of the outside edge of the recess has an included angle theta of less than 90 DEG.

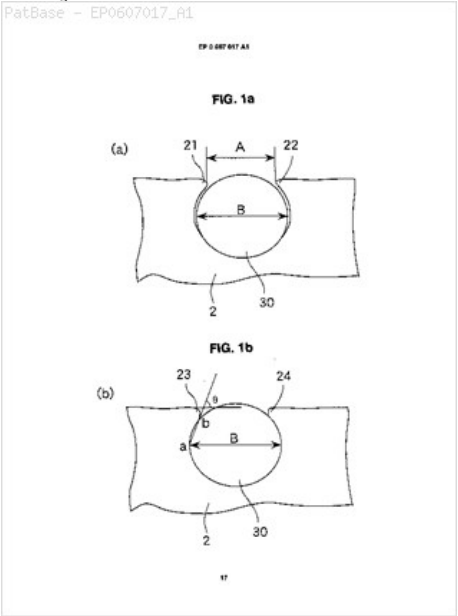
Classifications:

International (IPC 8-9): A61C8/00 A61F2/28 A61F2/30 A61L27/30 A61L27/42 B29C43/00 C23C24/02 (Advanced/Invention); A61F2/00 (Advanced/Non-invention); A61C8/00 A61F2/28 A61F2/30 A61L27/00 B29C43/00 C23C24/00 (Core/Invention); A61F2/00 (Core/Non-invention)

International (IPC 1-7): A61C8/00 A61F2/28 A61F2/30

CPC: A61C8/0012 A61C8/0013 A61F2/28 A61F2/30767 A61F2/3094 A61F2/30965 A61F2002/30084 A61F2002/30242 A61F2230/0071 A61L27/306 A61L27/427 B29C43/006 B29K2303/06 B29L2031/7532 C23C24/02

European: A61C8/00E A61C8/00E1 A61F2/28 A61F2/30L A61F2/30M4 A61L27/30R A61L27/42R B29C43/00C C23C24/02 K61F2/30A1W11 K61F2/30A2Y4 K61F2/30M K61F230/00Y4 L29K303/06 L29L31/7532



Family:

Publication number	Publication date	Application number	Application date
EP0607017 A1	19940720	EP19940300181	19940111
JP6205794 A2	19940726	JP19930019285	19930111

Priority:

JP19930019285 19930111

Probable Assignee: TDK CORP

Assignee(s): (std): TDK CORP

Inventor(s): (std): NONAMI TOHRO C O TDK CORPORATI ; SATOH NAOYOSHI C O TDK CORPORA ; YAMAZAKI JUNICHI C O TDK CORPO ; NONAMI TOORU

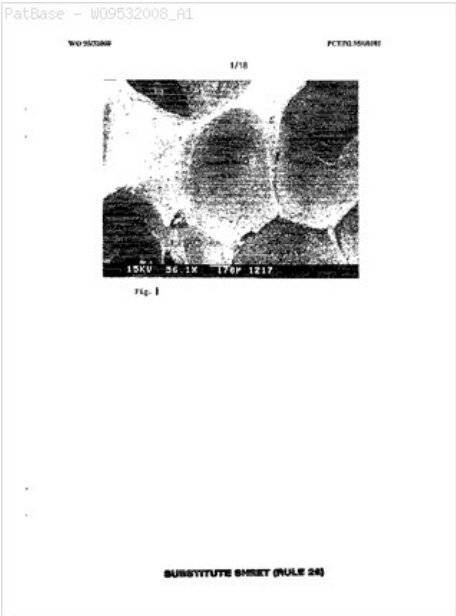
Inventor(s): YAMAZAKI JUNICHI C O TDK CORPORATION ; SATOH NAOYOSHI C O TDK CORPORATION ; NONAMI TOHRO C O TDK CORPORATION

Designated states: DE FR GB

Title: Biomaterial and bone **implant for** bone repair and replacement

Abstract: Source: US6117172A PCT No. PCT/NL95/00181 Sec. 371 Date Nov. 22, 1996 Sec. 102(e) Date Nov. 22, 1996 PCT Filed May 24, 1995 PCT Pub. No. WO95/32008 PCT Pub. Date Nov. 30, 1995This invention relates to a biomaterial useful in bone repair and replacement, and to **implants for** cranofacial, orthopaedic, and especially dental applications. The **implants** have a unique geometric configuration, their surfaces defining concavities having a shape and dimensions which induce or enhance the rate and/or amount of bone growth at the **implant** site. The biomaterial preferably has a specific porous configuration and the **implant** may be at least **coated with** such a biomaterial of hydroxyapatite, **for** example.

Classifications:
International (IPC 8-9): A61C8/00 A61F2/00 A61F2/28 A61F2/30 A61L27/00 A61L27/12 (Advanced/Invention); A61F2/00 A61F2/30 A61L27/00 (Advanced/Non-invention); A61B A61C A61F A61L (Subclass/Invention)
International (IPC 1-7): A61B A61C A61C8/00 A61F A61F2/28 A61F2/30 A61L A61L27/00
CPC: A61C8/0012 A61C8/0013 A61F2/28 A61F2/2875 A61F2/30749 A61F2/30767 A61F2002/30224 A61F2002/30795 A61F2002/30957 A61F2002/30968 A61F2220/0008 A61F2230/0069 A61F2310/00023 A61F2310/00293 A61F2310/00796 A61L27/12
European: A61C8/00E A61F2/28 A61L27/12 K61C8/00E1 K61F2/00Y3 K61F2/28S K61F2/30A2Y3 K61F2/30B10 K61F2/30L K61F2/30L2B K61F2/30M2M K61F2/30M6 K61F220/00F K61F230/00Y3 K61F310/00A2E K61F310/00A6E K61F310/00L6E
US: 623/16.11 623/23.3 623/23.56 623/23.76



Family:

Publication number	Publication date	Application number	Application date
AT222782 E	20020915	AT19950918778T	19950524
AU199524562 A1	19951218	AU19950024562	19950524
AU694943 B2	19980806	AU19950024562	19950524
CA2189335 AA	19961031	CA19952189335	19950524
DE19581649 T	19970507	DE19951081649T	19950524
DE19581649 T1	19970507	DE19951081649T	19950524
DE69527957 D1	20021002	DE19956027957	19950524
DE69527957 T2	20030424	DE19956027957T	19950524
EP0760687 A1	19970312	EP19950918778	19950524
EP0760687 B1	20020828	EP19950918778	19950524
GB2302656 A1	19970129	GB19960023804	19950524
GB2302656 B2	19980318	GB19960023804	19950524
GB9623804 A0	19970108	GB19960023804	19950524
JP10500343 T2	19980113	JP19950530214T	19950524
JP3457675 B2	20031020	JP19950530214T	19950524
US6117172 A	20000912	US19960737760	19961122
US6302913 BA	20011016	US19960737760	19961122
WO9532008 A1	19951130	WO1995NL00181	19950524
ZA9504217 A	19960122	ZA19950004217	19950524

Priority:
ZA19940003608 19940524 ZA19940010206 19941221 WO1995NL00181 19950524

Probable Assignee: TECHNOLOGY FINANCE CORP

Assignee(s): (std): IMPLICO BV ; TECHNOLOGY FINANCE CORP ; RIPAMONTI UGO ; KIRKBRIDE ANTHONY NIGEL

Assignee(s): TECHNOLOGY FINANCE GROU CORPLTD ; SHARP KK ; TECHNOLOGY FINANCE CORP LTD ; IMPLICO BV AMSTERDAM NL ; TECHNOLOGY FINANCE (PROPRIETARY) CORP LTD ; TECHNOLOGY FINANCE PROPRIETARY LIMIT CORP ; TECHNOLOGY FINANCE PROPRIETARY CORP LTD ; IMPLICO ATRIUM BUILDING STRAWINSKYLAAN BV ; IMPLICO B V ; IMPLICO B V AMSTERDAM

Inventor(s): (std): KIRKBRIDE ANTHONY NIGEL ; KIRKBRIDGE ANTHONY NIGEL ; RIPAMONTI UGO ; RIPAMONTI UGO ; KIRKBRIDE NIGEL

Inventor(s): RIPAMONTI UGO KILLAMEY GAUTENG ZA ; UGO RIPAMONTI ; KIRKBRIDE ANTHONY NIGEL MORELETA PARK GAUTENG ZA ; ANTHONY NIGEL KIRKBRIDE ; ANTHONY NIGEL KIRKBRIDGE

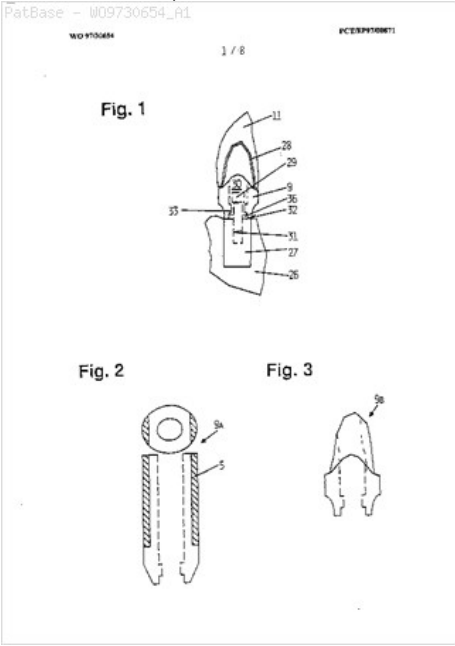
Agent(s): WATERMARK PATENT AND TRADE MARKS ATTORNEYS; SIM AND MCBURNEY

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 IS IT JP KE KG KP KR KZ LI LK LR LT LU LV MC MD MG ML MN MR MW MX NE NL NO NZ PL PT RO RU SD SE SG SI SK SN SZ TD TG TJ TM TT UA UG US UZ VN

Title: **IMPLANTABLE** TOOTH REPLACEMENT, ABUTMENT THEREFOR AND PROCESS **FOR** MAKING ABUTMENTS

Abstract: Ein implantierbarer Zahnersatz besteht aus einem in einem Kieferknochen befestigbaren Implantat (27), einem aus einem keramischen Werkstoff bestehenden Abutment (9), das ueber eine Befestigungsschraube (29) mit dem Implantat (27) verbindbar ist, einer zahnprothetischen Rekonstruktion, wie Zahnkrone oder Zahnbruecke, und einem Befestigungsmittel zum Verbinden des besagten Abutments mit besagter zahnprothetischer Rekonstruktion. Der keramische Werkstoff weist eine Bruchzaehligkeit KIC von wenigstens 6 MPa.m<1/2> und eine Biegefestigkeit von wenigstens 700 MPa bzw. 800 MPa auf und besteht gegebenenfalls zumindest zu 90 Gew.-% aus Zirkonoxid.

Classifications:
International (IPC 8-9): A61C13/00 A61C8/00 A61K6/06 (Advanced/Invention); A61C13/00 A61C8/00 A61K6/02 (Core/Invention)
International (IPC 1-7): A61C13/00 A61C8/00 A61K6/06
CPC: A61K6/0205 A61C8/0012 A61C8/005 A61C8/0054 A61C8/0059 A61C8/006 A61C8/0069 A61C8/0077 A61C13/0003 A61C13/0009 A61C13/0022
European: A61C13/00C A61C13/00C3C A61C8/00E A61C8/00G1 A61C8/00G3 A61K6/06 K61C13/00C5 K61C8/00G1C K61C8/00G1F K61C8/00G1H K61C8/00G1T K61C8/00G3



Family:

Publication number	Publication date	Application number	Application date
AU199717945 A1	19970910	AU19970017945	19970223
WO9730654 A1	19970828	WO1997EP00871	19970223

Priority:
CH19960000482 19960222 CH19960001471 19960612 WO1997EP00871 19970223

Probable Assignee: WOHLWEND ARNOLD

Assignee(s): (std): WOHLWEND ARNOLD

Assignee(s): ARNOLD WOHLWEND

Inventor(s): (std): WOHLWEND ARNOLD

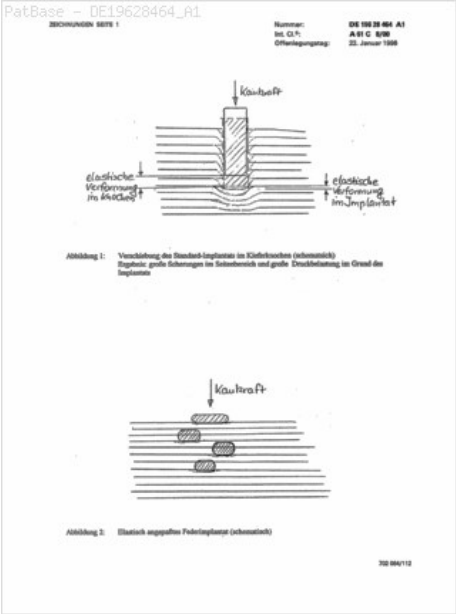
Inventor(s): ARNOLD WOHLWEND

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

Title: Shaped article especially dental root **implant**

Abstract: Source: DE19628464A1 A shaped article and a process **for** its production are claimed, the article having a spring design **for** mechanical compatibility **with** bone and being useful as an **implant**. Preferably, the article consists of a bio-inert **ceramic** (preferably aluminium oxide) or metal (preferably titanium), optionally reinforced by a dispersed phase (preferably of ZrO2) or by fibres (preferably C, SiC, carbonitride and/or Al2O3 fibres). The article may be dense or have internal open porosity, which may be filled **with** bio-inert and/or bio-active material (preferably collagen) and may have an external bio-active and/or bio-inert **coating** (preferably of hydroxyapatite). The article may have a meandering shape, a cylindrical spiral shape or a varying diameter spiral shape and its cross-sectional area preferably varies along its length. It may be produced by slip casting, hot casting, injection casting, extrusion or green processing of an axially or isostatically pressed body or, in the case of a metal article, by casting the melt and then forging, wire drawing, milling, grinding and/or polishing to the final shape. Open porosity may be provided by addition of a pore-forming agent or filler to the material before shaping or sintering of bimodal disperse primary powders, in which the fine fraction causes sintering of the coarse fraction. Preferably, the article has a head **for** receiving a tooth crown.

Classifications:
International (IPC 8-9): A61C8/00 (Advanced/Invention);
A61C8/00 (Core/Invention)
International (IPC 1-7): A61C8/00
CPC: A61C8/0012 A61C8/0018
European: A61C8/00E A61C8/00F



Family:

Publication number	Publication date	Application number	Application date
DE19628464 A1	19980122	DE19961028464	19960715

Priority:

DE19961028464 19960715

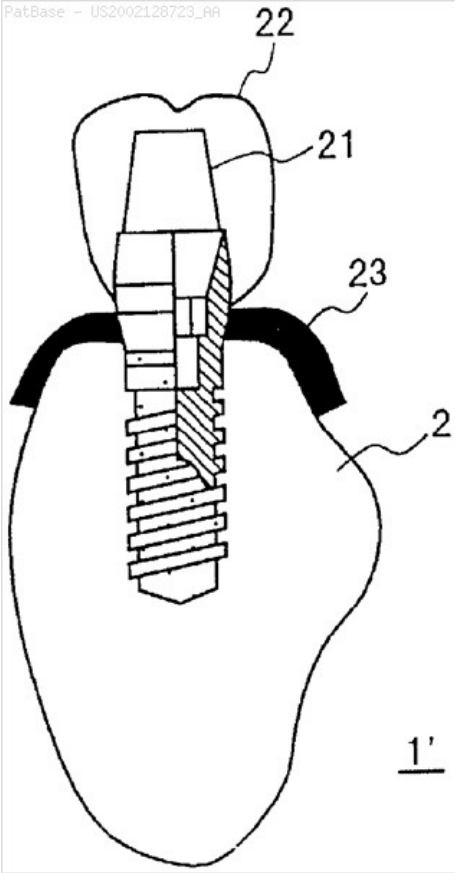
Probable Assignee: SCHUMACHER MANFRED PROF DR
Assignee(s): (std): SCHUMACHER MANFRED PROF DR
Assignee(s): SCHUMACHER MANFRED PROF DR 56068 KOBLENZ DE
Inventor(s): (std): SCHUMACHER MANFRED PROF DR
Inventor(s): SCHUMACHER MANFRED PROF DR 56068 KOBLENZ DE

Title: **IMPLANT WITH** BIOACTIVE PARTICLES STUCK AND **METHOD** OF MANUFACTURING THE SAME

Abstract: Source: US2002128723A An **implant** includes a main body member having bio-compatibility, and particles formed of bioactive material and dispersedly provided at the surface of an embedded section of the main body member. Each of the particles has a part embedded in the embedded portion and the other part protruding from the embedded portion. The main body member is formed of titanium or titanium alloy. The particles having osteo-conduction are formed of a material selected from among a group consisting of sintered substances of hydroxylapatite, alpha-tricalcium phosphate, beta-tricalcium phosphate, tetra-calcium phosphate, a single substance of amorphous calcium phosphate, monetite, brushite, 45S4 glass, and a mixture of them. It is desirable that the embedded section surface has a surface roughness in a range of 5 to 50 μm.

Classifications:

International (IPC 8-9): A61B17/00 A61C8/00 A61F2/02 A61F2/30 A61L27/00 A61L27/06 A61L27/32 B24C1/00 B24C11/00 (Advanced/Invention); A61F2/00 A61F2/28 (Advanced/Non-invention); A61C8/00 A61L27/00 (Core/Invention)
International (IPC 1-7): A61B17/00 A61B19/00 A61C8/00 A61F2/02 A61F2/28 A61F2/30 A61L2/00 A61L27/00 B05D3/00
CPC: Y10S623/923 B24C1/00 A61C8/0006 A61C8/0012 A61C8/0013 A61C8/0019 A61C2008/0046 A61F2/30767 A61F2/3094 A61F2002/2825 A61F2002/3085 A61F2002/30861 A61F2002/30906 A61F2310/00023 A61F2310/00616 A61F2310/00796 A61L27/06 A61L27/32 B24C11/00
European: A61C8/00E A61F2/30L A61L27/06 A61L27/32 B24C1/00 B24C11/00 K61C8/00C1A K61C8/00E1 K61C8/00F1 K61C8/00F30T K61F2/28F K61F2/30L2Q K61F2/30L2Q5 K61F2/30L3 K61F2/30M K61F310/00A2E K61F310/00L6A22 K61F310/00L6E
US: 128/897 128/898 427/2.27 427/2.270S 427/227 433/201.1 433/201.100S 623/11 623/16 623/18 623/23.5 623/23.500S 623/23.56 623/23.560P 623/23.57 623/23.570P 623/23.570S 623/23.6 623/23.600S 623/66 623/923



Family:

Publication number	Publication date	Application number	Application date
DE69732005 D1	20050127	DE19976032005	19970930
DE69732005 T2	20051229	DE19976032005T	19970930
DE69738492 D1	20080313	DE19976038492	19970930
DE69738492 T2	20090115	DE19976038492T	19970930
EP0832619 A1	19980401	EP19970116993	19970930
EP0832619 B1	20041222	EP19970116993	19970930
EP1516602 A2	20050323	EP20040024189	19970930
EP1516602 A3	20051019	EP20040024189	19970930
EP1516602 B1	20080123	EP20040024189	19970930
ES2297319 T3	20080501	ES20040024189T	19970930
JP10099348 A2	19980421	JP19960276969	19960930
JP10211218 A2	19980811	JP19970028266	19970129
JP11019205 A2	19990126	JP19970190752	19970702
JP2893253 B2	19990517	JP19960276969	19960930
JP3005893 B2	20000207	JP19970028266	19970129
JP3026074 B2	20000327	JP19970190752	19970702
US2002128723 AA	20020912	US20010969619	20011004
US2002143404 AA	20021003	US20020154839	20020528
US5934287 A	19990810	US19980106070	19980629

Priority:

JP19960276969 19960930	JP19970028266 19970129	JP19970190752 19970702
EP19970116993 19970930	EP19970116993 19970930	US19980106069 19980629
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US20020154839 20020528		

Probable Assignee: BRAINBASE CORP

Assignee(s): (std): BRAIN BEESU KK ; BRAINBASE CORP ; BUREEN BEESU KK

Assignee(s): BRAINBASE CORP TOKIO TOKYO

Inventor(s): (std): FURUSAWA TOSHITAKE ; FURUTA ISAO ; FURUTA ISAO ; HAYASHI OSAMU ; HAYASHI YASUSHI ; ICHIDA EIJI ; OZAWA FUMISADA ; SASO TAKAMASA ; SASOH TAKAMASA

Agent(s): BETTEN AND RESCH

Designated states: BE CH DE ES FR GB IT LI NL SE

Title: Retentive dental element made of high strength ceramic

Abstract: The dental retention pin (1) has a shaft (2) and is made from a hard ceramic material such as zirconium oxide. In use, it is inserted into a bore in a tooth root of a tooth to be restored. The upper part of the pin, when properly inserted projects above the tooth and acts as a mounting for the crown. The pin is coated with a continuous or discontinuous or partial homogenous or non-homogenous coating (4) made from a hard ceramic which is has a hard chemical and/or light structural characteristic. The coating bonds chemically and/or mechanically with the pin.

Classifications:

International (IPC 8-9): A61C13/30 A61C5/00 A61C7/14

A61C8/00 (Advanced/Invention);

A61C13/225 A61C5/00 A61C7/00 A61C8/00 (Core/Invention)

International (IPC 1-7): A61C5/00 A61C7/14 A61C8/00

CPC: A61C5/005 A61C7/14 A61C8/0012 A61C8/0013 A61C13/30 A61C2008/0046

European: A61C13/30 A61C5/00P A61C7/14 A61C8/00E A61C8/00E1 K61C8/00F30T

PatBase - EP0870478_A1

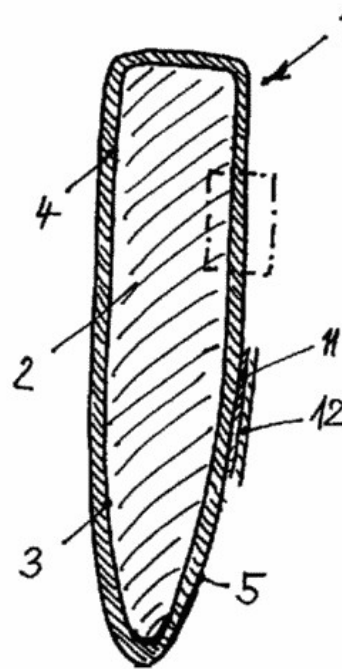


Fig. 1

Family:

Publication number	Publication date	Application number	Application date
EP0870478 A1	19981014	EP19970105930	19970410

Priority:

EP19970105930 19970410

Probable Assignee: NEUMEYER STEFAN

Assignee(s): (std): NEUMEYER STEFAN

Assignee(s): NEUMEYER STEFAN DR

Inventor(s): (std): NEUMEYER STEFAN DR

Designated states: CH DE FR IT LI

Title: Piezoelectric fluoro copolymer **coatings** on prostheses, **implants** or electrodes

Abstract: Source: DE19723723A1 A polymer **coating** on a prosthesis, **implant** or body electrode consists of a vinylidene fluoride/tri- or tetra-fluoroethylene copolymer (optionally as a composite **with** a polyacrylate, polystyrene and/or polycarbonate) and is characterised by being electrically polarised so as to impart piezoelectric properties. The polarisation process is preferably preceeded by heat treatment of the **coating**.

Classifications:

International (IPC 8-9): A61C8/00 A61L27/34 A61L27/50 A61L31/10 A61L31/14 C04B41/48 C04B41/52 (Advanced/Invention)

International (IPC 1-7): A61K6/02 A61L27/00 B05D7/26 C04B41/83 C08F212/08 C08F214/22

CPC: A61C8/0012 A61C8/0013 A61C8/0016 A61L27/34 A61L27/50 A61L31/10 A61L31/14 C04B41/4842 C04B41/52

European: A61C8/00E A61C8/00E1 A61C8/00E3 A61L27/34 A61L27/50 A61L31/10 A61L31/14 C04B41/48M2 C04B41/52

Family:

Publication number	Publication date	Application number	Application date
DE19723723 A1	19981203	DE19971023723	19970530
DE19723723 C2	19990520	DE19971023723	19970530

Priority:
DE19971023723 19970530 DE19971023723 19970530

Probable Assignee: FRAUNHOFER GES FORSCHUNG

Assignee(s): (std): FRAUNHOFER GES FORSCHUNG

Assignee(s): FRAUNHOFER GESELLSCHAFT ZUR FOERDERUNG DER ANGEWAN ; FRAUNHOFER GESELLSCHAFT ZUR FOERDERUNG DER ANGEWANDTEN FORSCHUNG E V 80636 MUENCHEN DE ; FRAUNHOFER GESELLSCHAFT ZUR FOERDERUNG DER ANGEWANDTEN FORSCHUNG EV 80636 MUENCHEN DE

Inventor(s): (std): DANZ RUDI DR

Inventor(s): DANZ RUDI DR HABIL ; DANZ RUDI DR HABIL 14532 KLEINMACHNOW DE

Title: Bone augmentation **for** prosthetic **implants** and the like

Abstract: Source: US6077076A Bone augmentation in a mammalian body by insertion of a mesh comprising one or more fibrillar wires having a hydroxyl apatite **coating** into a bone cavity or socket. The one or more fibrillar wires are arranged or assembled into a woolly structure, which may be infused or cultured **with** a bone morphogenic protein. The mesh is sealed in the cavity to permit new bone to form over time, resulting in an osteointegrated matrix of bone reinforced by the fibrillar wires of the mesh.

Classifications:

International (IPC 8-9): A61B17/00 A61C8/00 A61F2/00 A61F2/02 A61F2/28 A61F2/30 A61L27/30 A61L27/32 A61L27/34 A61L27/54 (Advanced/Invention); A61B17/00 A61F2/00 A61F2/02 A61F2/28 A61F2/42 A61F2/44 (Advanced/Non-invention); A61F2/28 (Core/Non-invention)

International (IPC 1-7): A61C13/225 A61C8/00 A61F2/28 A61F2/304

CPC: A61B17/00491 A61C8/0006 A61C8/0009 A61F2/28 A61F2/2846 A61F2/30767 A61F2002/2821 A61F2002/30062 A61F2002/30224 A61F2002/3092 A61F2002/30929 A61F2210/0004 A61F2230/0069 A61F2310/00017 A61F2310/00023 A61F2310/00131 A61F2310/00155 A61F2310/00616 A61F2310/00796 A61C8/0012 A61C8/0013 A61F2/0077 A61F2/2803 A61F2/30907 A61F2/3094 A61F2/30965 A61F2/4455 A61F2002/30011 A61F2002/30032 A61F2002/30064 A61F2002/30449 A61F2002/30451 A61F2002/30453 A61F2002/30808 A61F2002/3081 A61F2002/30909 A61F2002/30919 A61F2002/30925 A61F2002/30968 A61F2002/4251 A61F2220/005 A61F2220/0058 A61F2250/0023 A61F2250/003 A61F2310/00029 A61F2310/00137 A61F2310/00401 A61F2310/00407 A61F2310/00413 A61F2310/00449 A61F2310/0055 A61F2310/00568 A61F2310/00598 A61F2310/0097 A61F2310/00976 A61L27/306 A61L27/32 A61L27/34 A61L27/54 A61L2300/252 A61L2300/406 A61L2300/414 A61L2300/606

European: A61C8/00C1A A61C8/00C2 A61C8/00E A61C8/00E1 A61F2/28 A61F2/28H A61F2/30L A61F2/30L4 A61L27/30R A61L27/32 A61L27/34 A61L27/54 K61B17/00L K61F2/00L K61F2/00L8 K61F2/28B K61F2/28E K61F2/30A1A2R74 K61F2/30A1L2A K61F2/30A1L2E K61F2/30A1L2F K61F2/30A1L2R24 K61F2/30A1L2R74 K61F2/30A1L2R79 K61F2/30A1L33 K61F2/30A1L66 K61F2/30A1L6A K61F2/30A1N14 K61F2/30A1N3 K61F2/30A1W1 K61F2/30A1W1L K61F2/30A2Y3 K61F2/30A3T8C K61F2/30A3T9 K61F2/30A3T9B K61F2/30L2B9P K61F2/30L2B9Q K61F2/30L4N K61F2/30L4S K61F2/30L5 K61F2/30L7 K61F2/30L8 K61F2/30M K61F2/30M4 K61F2/30M6 K61F2/42H4 K61F2/44F K61F210/00A K61F220/00T8 K61F220/00T9 K61F230/00Y3 K61F250/00N13 K61F250/00N8 K61F310/00A2A K61F310/00A2E K61F310/00A2F K61F310/00A2R73 K61F310/00A2R74 K61F310/00A2R79 K61F310/00L2A K61F310/00L2E K61F310/00L2F K61F310/00L2R24 K61F310/00L2R74 K61F310/00L2R79 K61F310/00L33 K61F310/00L66 K61F310/00L6A K61F310/00L6A22 K61F310/00L6E K61L300/252 K61L300/406 K61L300/414 K61L300/606

US: 433/173 433/201.1 623/16.11 623/23.49 623/23.51 623/23.54 623/23.57 623/23.59 623/23.6 623/23.75 623/23.76 623/236

Family:

Publication number	Publication date	Application number	Application date
AU199918319 A1	19990705	AU19990018319	19981218
US6077076 A	20000620	US19990236167	19990122
US6143036 A	20001107	US19990236164	19990122
US6214049 BA	20010410	US19990231907	19990114
US6461385 BA	20021008	US20000651826	20000830
WO9930632 A1	19990624	WO1998US26983	19981218
WO9930632 C2	19990923	WO1998US26983	19981218

Priority:

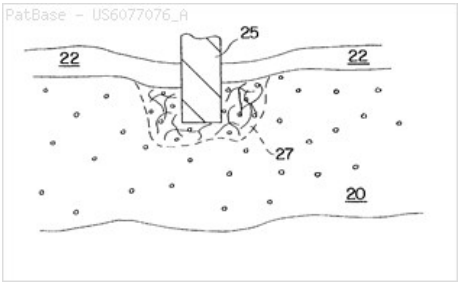
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US19990236167 19990122	US19990236164 19990122	US19990231907 19990114

Probable Assignee: COMFORT BIOMEDICAL INC

Assignee(s): (std): COMFORT BIOMEDICAL INC

Inventor(s): (std): CHRISTOPHER J COMFORT ; COMFORT CHRISTOPHER J ; GAYER GREGORY G

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 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 TT UA UG UZ VN YU ZW



Title: Two-piece dental abutment with removable cuff

Abstract: Source: US6012923A A two-piece dental abutment having a cuff portion that is removable from a upper portion. The cuff is made from a material different than the upper portion.

Classifications:

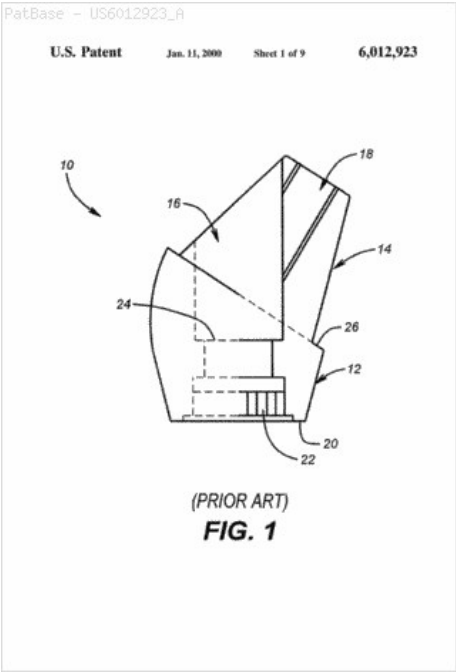
International (IPC 8-9): A61C8/00 (Advanced/Invention);
A61C8/00 (Core/Invention)

International (IPC 1-7): A61C8/00

CPC: A61C8/005 A61C8/0054 A61C8/006 A61C8/0066 A61C8/0068

European: A61C8/00G1 A61C8/00G1P A61C8/00G1S K61C8/00G1C K61C8/00G1H
K61C8/00G1S

US: 433/172 433/173



Family:

Publication number	Publication date	Application number	Application date
US6012923 A	20000111	US19980126511	19980730
US6250922 BA	20010626	US19990429816	19991029

Priority:

US19980126511 19980730 US19990429816 19991029

Probable Assignee: ZIMMER DENTAL INC

Assignee(s): (std): SULZER CALCITEK INC ; SULZER DENTAL INC

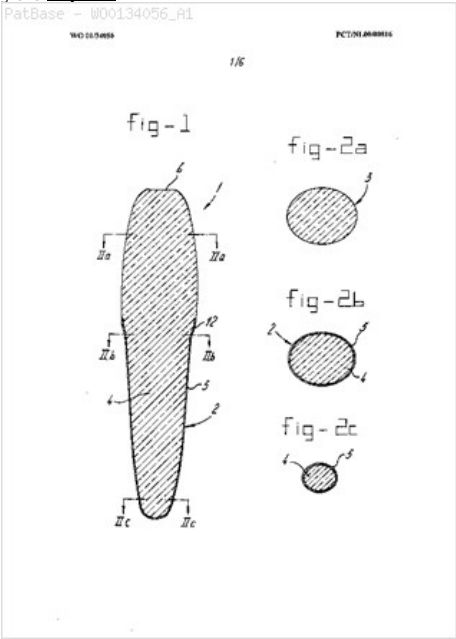
Assignee(s): UBS AG ; ZIMMER DENTAL INC ; UBS STAMFORD BRANCH SECURITY AGENT FOR SECURED PAR ; CENTERPULSE DENTAL INC ; CENTERPULSE USA INC

Inventor(s): (std): ARMSTRONG PETER S ; BASSETT JEFFREY A ; DAY THOMAS H ; LYREN PHILIP S ; PETTERSEN CARL W

Title: ONE-PART DENTAL IMPLANT

Abstract: The invention relates to an implant, coloured to match the teeth, for fitting in a jaw, having an insertion component which can be fitted in the jawbone and having a support component for fixing a dental prosthesis. The support component is intended to protrude beyond the jawbone when the insertion component is in the implanted position. The support component, or at least an external peripheral portion thereof, is made of a ceramic material of a thickness such that the ceramic material can be partially removed in order to adapt the shape of the support component. During this operation it is possible, in particular, for a shoulder for supporting the dental prosthesis to be formed, which shoulder narrows the support component and follows the edge of the jawbone surrounding the implant.

Classifications:
International (IPC 8-9): A61C8/00 (Advanced/Invention)
International (IPC 1-7): A61C8/00
CPC: A61C8/0012 A61C8/0013 A61C8/0018 A61C8/0075
European: A61C8/00G2 K61C8/00E K61C8/00E1 K61C8/00F



Family:

Publication number	Publication date	Application number	Application date
AU2001222353 AA	20010606	AU20010222353	20001109
AU2001222353 A5	20010606	AU20010022353	20001109
NL1013536 C2	20010511	NL19991013536	19991109
WO0134056 A1	20010517	WO2000NL00816	20001109

Priority:
NL19991013536 19991109 WO2000NL00816 20001109

Probable Assignee: JOHANNES CORNELIS STANISLAS BE

Assignee(s): (std): BEEKMANS JOHANNES CORNELIS STA ; JOHANNES CORNELIS STANISLAS BE

Assignee(s): JOHANNES CORNELIS STANISLAS BEEKMANS ; BEEKMANS JOHANNES CORNELIS STANISLAS

Inventor(s): (std): BEEKMANS JOHANNES CORNELIS STA ; JOHANNES CORNELIS STANISLAS BEEKMANS

Inventor(s): BEEKMANS JOHANNES CORNELIS STANISLAS

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

Title: Method for immediately placing a non-occlusive dental implant prosthesis

Abstract: Source: US2002090592A A method for immediately placing a non-occlusive and non-functional temporary dental implant prosthesis in the jawbone of a human patient with the prosthesis having a size and shape of a natural human tooth.

Classifications:

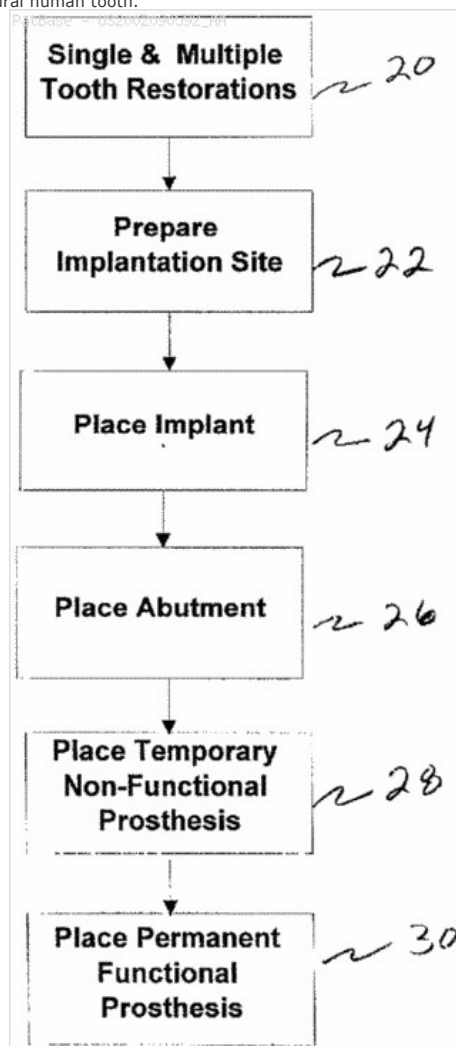
International (IPC 8-9): A61C13/00 A61C8/00 (Advanced/Invention)

International (IPC 1-7): A61C8/00

CPC: A61C8/0048 A61C13/0001

European: A61C13/00B A61C8/00G

US: 433/173 433/173P



Family:

Publication number	Publication date	Application number	Application date
US2002090592 AA	20020711	US20010050028	20011022
US2005008988 AA	20050113	US20040861324	20040604
US2007190489 AA	20070816	US20070737982	20070420
US6368108 BA	20020409	US20010755240	20010105
US6746244 BB	20040608	US20010050028	20011022
US7287982 BB	20071030	US20040861324	20040604

Priority:

US20010755240 20010105 US20010050028 20011022 US20040861324 20040604
 US20070737982 20070420

Probable Assignee: ZIMMER DENTAL INC

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

Assignee(s): UBS AG ; UBS STAMFORD BRANCH SECURITY AGENT FOR SECURED PAR ; CENTERPULSE DENTAL INC ; CENTERPULSE USA INC ; LYREN PHILIP S ; RILEY ROBERT L

Inventor(s): (std): LOCANTE WILLIAM M ; LYREN PHILIP S ; RILEY ROBERT L

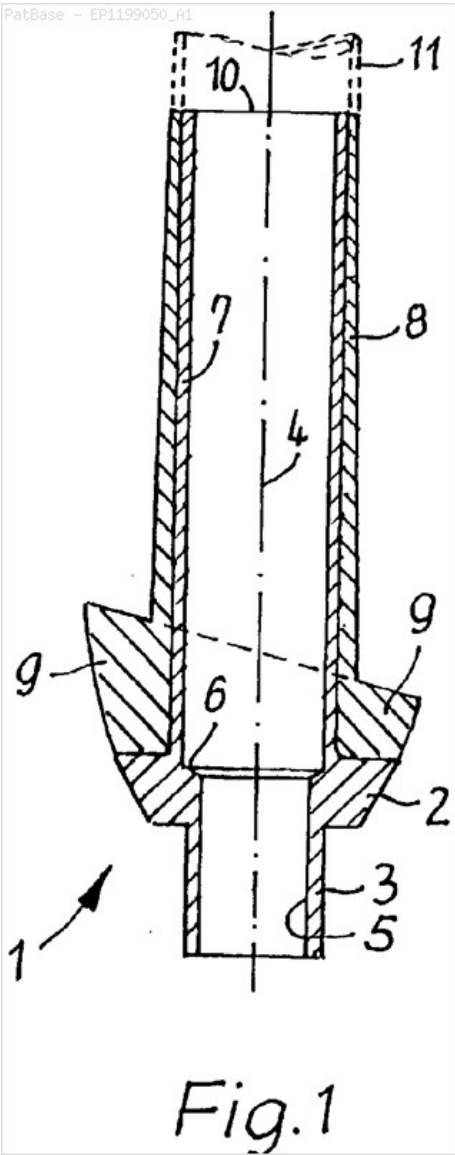
Inventor(s): RILEY ROBERT ; LYREN PHILIP

Agent(s): CONLEY ROSE PC; FITCH EVEN TABIN AND FLANNERY

Title: Metallic prosthetic holder and method for producing the same

Abstract: The prosthesis-holder, especially in the form of a metal bar (1), has an exterior coating made of material compatible with the tissue and connectable to the prosthesis. The coating (8) is applied directly to the holder and firmly attached by shrinkage forces. The holder's surface near the coating is roughened and consists of plastic or ceramic, especially porcelain, liquefied at high temperature and applied under pressure. Part of the holder is angled to fix on the implant.

Classifications:
International (IPC 8-9): A61C8/00 (Advanced/Invention); A61C8/00 (Core/Invention)
International (IPC 1-7): A61C8/00 A61K6/02
CPC: A61C8/0048
European: A61C8/00G



Family:			
Publication number	Publication date	Application number	Application date
DE10052389 A1	20020502	DE20001052389	20001020
EP1199050 A1	20020424	EP20010124947	20011019
Priority:			
DE20001052389 20001020			
Probable Assignee: ORALTRONICS DENTAL IMPLANT TEC			
Assignee(s): (std): ORALTRONICS DENTAL IMPLANT TEC			
Assignee(s): ORALTRONICS DENTAL IMPLANT TECHNOLOGY GMBH			
Inventor(s): (std): BOETTCHER ROBERT ; BOETTCHER ROBERT DR ; GRAFELMANN HANS L ; GRAFELMANN HANS L PROF DR			
Designated states: AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR			

Title: **IMPLANTS**, DEVICE AND **METHOD FOR** JOINING TISSUE PARTS

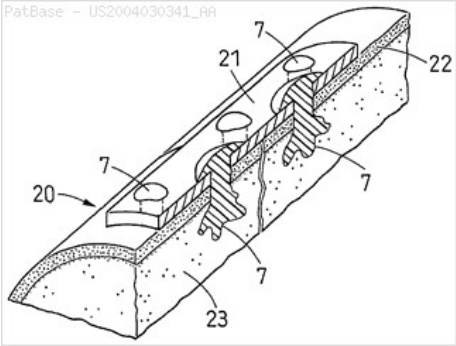
Abstract: Source: US2004030341A In order to form positive connections **with** human or animal tissue parts, particularly bones, **implants** (7) are used that at least partially consist of a material that can be liquefied by means of mechanical energy. Particularly suitable materials of this type are thermoplastics (e.g. resorbable thermoplastics) or thixotropic materials. The **implants** (7) are brought into contact **with** the tissue part, are subjected to the action of ultrasonic energy and are simultaneously pressed against the tissue part. The liquefiable material then liquefies and is pressed into openings or surface asperities of the tissue part so that, once solidified, it is positively joined thereto. The implantation involves the use of an implantation device comprising a generator (2), an oscillating element and a resonator (6), whereby the generator (2) causes the oscillating element to mechanically oscillate, and the element transmits the oscillations to the resonator (6). The resonator (6) is used to press the **implant** (7) against the tissue part whereby causing oscillations to be transmitted to the **implant** (7). The **implants** (7) are, **for** example, pin-shaped or dowel-shaped and are used in lieu of screws **for** forming connections **with** bone tissue, whereby the bone tissue is optionally pre-bored **for** positioning the **implant** (7). By virtue of the fact that it is unnecessary to transmit any torsional forces to the **implants** (7), these **implants** can be provided **with** a design that is weaker, i.e. slimmer than that of known screws made of the same material, and they can be **implanted** more quickly.

Classifications:

International (IPC 8-9): A61B17/00 A61B17/03 A61B17/04 A61B17/56 A61B17/58 A61B17/68 A61B17/82 A61B17/84 A61B17/86 A61B17/88 A61C13/00 A61C13/10 A61C8/00 A61F2/08 A61F2/28 A61F2/30 A61L31/00 B29C65/00 B29C65/08 B29C65/54 B29C65/56 B29C65/60 (Advanced/Invention); A61B17/80 A61B17/84 A61F2/00 A61F2/28 A61F2/36 A61F2/46 B29C65/48 (Advanced/Non-invention); A61B17/00 A61B17/04 A61B17/56 A61B17/58 A61B17/68 A61B17/88 A61C13/00 A61C8/00 A61F2/08 A61F2/28 A61F2/30 A61L31/00 B29C65/00 B29C65/08 B29C65/52 B29C65/56 (Core/Invention); A61F2/00 A61F2/28 A61F2/36 A61F2/46 (Core/Non-invention)

International (IPC 1-7): A61B17/56 A61B17/68 A61B17/84 A61B17/88 A61C8/00 A61F2/28 A61L31/00

CPC: B29C65/00 A61B17/00491 A61B17/68 A61B17/688 A61B17/8085 A61B17/842 A61B17/8872 A61B2017/00004 A61B2017/00734 A61B2017/00955 A61C8/0012 A61C8/0016 A61C8/0018 A61F2/0077 A61F2/2846 A61F2/2875 A61F2/30749 A61F2/30767 A61F2/36 A61F2/3662 A61F2/4601 A61F2002/30064 A61F2002/30065 A61F2002/30067 A61F2002/30878 A61F2002/3611 A61F2002/3625 A61F2002/4602 A61F2002/465 A61F2002/4683 A61F2210/0071 A61F2220/0008 A61F2310/00023 B29C65/08 B29C65/54 B29C65/562 B29C65/562 B29C65/603 B29C66/727 B29C66/81423 B29C66/81429 B29C66/8322 B29C66/836 Y10S606/908 Y10S606/915 Y10S606/916 B29C65/48 B29C66/81431 B29C66/81433 A61B17/84 A61F2002/30062 A61F2/28 A61B17/866 B29C66/30326 B29C66/5324 B29C66/5346 B29C66/542 B29C66/71 B29C66/7212 B29C66/7392 B29C66/9513 B29C66/9517 B29C66/73791 **European:** A61B17/00L A61B17/68 A61B17/88P A61C8/00E3 A61C8/00F A61F2/30L B29C65/08 B29C65/54 B29C65/56D B29C65/60 B29C65/60B B29C66/727 B29C66/836 K61B17/00A K61B17/00Q12 K61B17/00S36 K61B17/68S K61B17/80P K61B17/84B K61C8/00E K61F2/00L K61F2/28 K61F2/28H K61F2/28S K61F2/30A1W1L K61F2/30A1W2 K61F2/30A1W2L K61F2/30B10 K61F2/30L K61F2/30L2S K61F2/36 K61F2/36C1 K61F2/36C2 K61F2/36D K61F2/46A K61F2/46A6 K61F2/46H K61F2/46S2 K61F210/00H K61F220/00F K61F310/00A2E L29C65/56D L29C65/60B4 L29C66/30326 **US:** 433/167 433/173 433/173S 606/104 606/104S 606/151 606/213 606/213P 606/228 606/232 606/232P 606/280 606/281 606/284 606/298 606/300 606/300S 606/329 606/329S 606/331 606/331S 606/60 606/60P 606/70 606/70S 606/72 606/74 606/74S 606/76 606/76S 606/86.00AP 606/86A 606/908 606/908S 606/915 606/916 606/916S 623/13.14 623/13.140S 623/16.11 623/16.110S 623/17.19 623/17.190P 623/18.11 623/23.36 623/23.360S 623/23.47 623/23.58 623/23.580S 623/23.62 623/23.620S



Family:

Publication number	Publication date	Application number	Application date
AT338516 E	20060915	AT20020700094T	20020304
AU2002233103 AA	20020919	AU20020233103	20020304
AU2002233103 BB	20061102	AU20020233103	20020304
BRPI0207800 A	20040323	BR2002PI07800	20020304
BRPI0207800 B1	20131029	BR2002PI07800	20020304
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CN100337599 C	20070919	CN20028005887	20020304
CN1494398 A	20040505	CN20028005887	20020304
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JP2004520908 T2	20040715	JP20020569000T	20020304
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Probable Assignee: WOODWELDING AG

Assignee(s): (std): AESCHLIMANN MARCEL ; LANCI ANTONINO ; MAYER JOERG ; TORRIANI LAURENT ; MAYER JORG ; WOODWELDING AG
Assignee(s): WOODWELDING AGBODMERSTRASSE 7CH-8002ZURICHCH ; TORIIANI LAURENT ; LANCI ANTONIO
Inventor(s): (std): MAYER JOERG ; MAYER JORG ; TORIIANI LAURENT ; TORRIANI L ; TORRIANI LAURENT ; AESCHLIMANN M ; AESCHLIMANN MARCEL ; LANCI A ; LANCI ANTONINO ; LANCI ANTONIO ; LANCI M AESCHLIMANN L TORRIANI
Inventor(s): M AESCHLIMANN ; M AESCHLIMANN L TORRIANI A LANCI ; JORG MAYER ; L TORRIANI ; A LANCI ; TORRIANI LORAN ; MARCEL AESCHLIMANN ; MAJER JORG ; LAURENT TORRIANI ; LANCHI ANTONIO ; JOERG MAYER ; ANTONINO LANCI ; AEHSSHLIMANN MARSEL' ; TORRIANI LAURENTCH ; MAYER JOERGCH ; LANCI ANTONINOC ; AESCHLIMANN MARCELCH
Agent(s): GRIFFITH HACK; FREEDMAN GORDON; SHAPIRO COHEN LLP; REINHOLD COHN AND PARTNERS; RANKIN HILL PORTER AND CLARK LLP; RANKIN HILL AND CLARK 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 LI LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NE NL NO NZ OM PH PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VN YU ZA ZM ZW

Title: **METHOD** AND SYSTEM **FOR** IMPROVING THE EFFECTIVENESS OF MEDICAL DEVICES BY ADHERING DRUGS TO THE SURFACE THEREOF

Abstract: Source: US2002188324A Medical devices **implanted** or otherwise used in a mammal are made less prone to trigger adverse reactions by use of gas cluster ion-beam (GCIB) surface modification and/or monomer ion beam surface modification to **implant**, apply, or adhere various drug molecules directly into or onto the surface of medical devices. This is accomplished without the need **for** a polymer or any other binding agent to retain the drug.

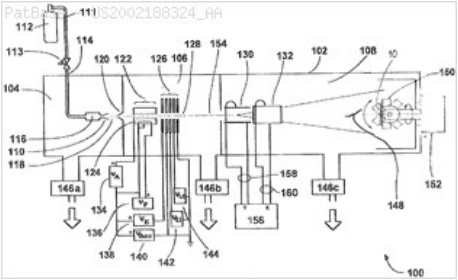
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Probable Assignee: EXOGENESIS CORP

Assignee(s): (std): BLINN STEPHEN M ; EPION CORP ; EXOGENESIS CORP ; KHOURY JOSEPH ; KIRKPATRICK ALLEN R ; SVRLUGA RICHARD C ; ZIDE BARRY M ; KIRKPATRICK SEAN R ; TARRANT LAURENCE B ; TARRANT LAURENCE BERLOWITZ ; WALSH MICHAEL J

Assignee(s): EXOGENESIS CORPORATION ; RICHARD C SVRLUGA ; STEPHEN M BLINN ; EXOGENESIS BIOMEDICAL TECHNOLOGY INC ; JDS UNIPHASE CORP ; KIRKPATRICK SEAN ; EXOGENESIS A DELAWARE CORP ; DIFILIPPO VINCENT

Inventor(s): (std): JOSEPH KHOURY ; KHOURY JOSEPH ; KIRKPATRICK ALLEN R ; KIRKPATRICK SEAN R ; SVRLUGA RICHARD C ; TARRANT LAURENCE B ; TARRANT LAURENCE BERLOWITZ ; WALSH MICHAEL J ; ZIDE BARRY M ; ZIDE BARRY ; KIRKPATRICK SEAN ; DIFILIPPO VINCENT ; BLINN STEPHEN M

Inventor(s): BLINN STEPHEN ; SVRLUGA RICHARD ; STEPHEN M BLINN ; RICHARD C SVRLUGA ; ZIDE BARRY EPION CORPORATION ; KIRKPATRICK SEAN EPION CORPORATION ; BLINN STEPHEN M EPION CORPORATION ; DIFILIPPO VINCENT EPION CORPORATION

Agent(s): A J PARK; AJ PARK; OGILVY RENAULT LLP SENCRL SRL; NORTON ROSE CANADA SENCRL SRL LLP; NORTON ROSE FULBRIGHT CANADA LLP SENCRL SRL; CASEY LINDSAY JOSEPH; CASEY LINDSAY JOSEPH ET AL; DR EYAL BRESSLER; HIROE AND ASSOCIATES PATENT PROFESSIONAL CORP; PERKINS SMITH AND COHEN LLP; BURNS AND LEVINSON LLP was PERKINS SMITH AND COHEN LLP.; BURNS AND LEVINSON LLP was PERKINS SMITH AND COHEN LLP; BURNS AND LEVINSON LLP; JERRY; DAVID W; BURNS AND LEVISON LLP; COHEN JERRY 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 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 YU ZA ZM ZW

Title: CERAMIC DENTAL IMPLANT

Abstract: Source: US2005106534A A dental implant is provided comprising an anchoring part (12) for anchoring within the bone and comprising a mounting part (18) for receiving a prosthetic build-up construction, wherein the anchoring part (12) and the mounting part (18) are configured integrally of a material based on zirconia, wherein at least the anchoring part is pre-treated at its outer surface at least partially by a subtractive, removing process, or is provided with a coating which facilitates an ossification (Fig. 1).

Classifications:

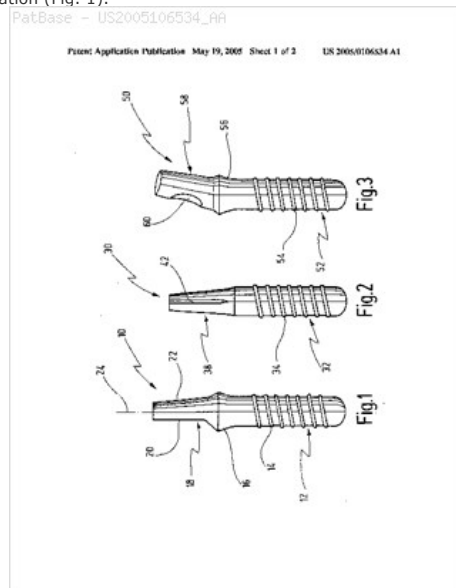
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Family:

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EP2292179 A2	20110309	EP20100010971	20021123
EP2292179 A3	20131120	EP20100010971	20021123
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ES2379387 T3	20120425	ES20070018155T	20021123
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JP2009039566 A2	20090226	JP20080297898	20081121
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JP2015013199 A2	20150122	JP20140186278	20140912
JP5489198 B2	20140514	JP20080297898	20081121
JP5662399 B2	20150128	JP20120220383	20121002
US2005106534 AA	20050519	US20040496814	20041217
US2009176191 AA	20090709	US20090407262	20090319
US2011318708 AA	20111229	US20110228642	20110909
WO03045268 A1	20030605	WO2002EP13187	20021123

Priority:

DE20011059683 20011130	WO2002EP13187 20021123	EP20070018155 20021123
JP20030546775 20021123	EP20050016481 20021123	EP20020803789 20021123
JP20080297898 20021123	JP20120220383 20021123	DE20025004293 20021123
US20040496814 20041217	US20090407262 20090319	US20110228642 20110909

Probable Assignee: STRAUMANN HOLDING CORPORATION OF SWITZERLAND AG

Assignee(s): (std): GAHLERT MICHAEL ; INST STRAUMANN BASEL AG ; STRAUMANN HOLDING AG ; STRAUMANN INST AG

Assignee(s): STRAUMANN HOLDING OF SWITZERLAND AG CORP ; STRAUMANN HOLDING CORPORATION OF SWITZERLAND AG ; STRAUMANN AG INST ; STRAUMANN BASEL AG INST ; STRAUMANN BASEL INST AG ; STRAUMANN HOLDING (CORPORATION OF SWITZERLAND) AG

Inventor(s): (std): GAHLERT MICHAEL ; MICHAEL GAHLERT

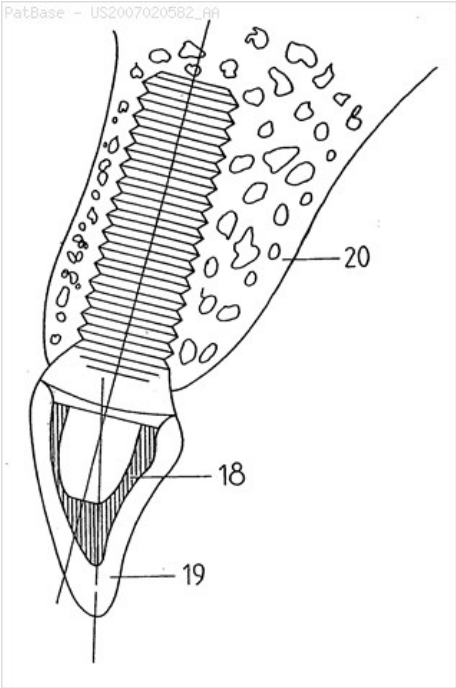
Agent(s): SCHAAD BALASS MENZL AND PARTNER AG; WILLIAM ANTHONY DRUCKER, 13TH FLOOR SUITE 800; RISSMAN HENDRICKS AND OLIVERIO LLP

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 LI LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NE NL NO NZ OM PH PL PT RO RU SC SD SE SG SI SK SL SN SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

Title: ABUTMENT **FOR** A DENTAL **IMPLANT**, DENTAL **IMPLANT** COMPRISING SUCH AN ABUTMENT, AND **METHOD FOR** THE PRODUCTION OF DENTURES BY MEANS OF SAID DENTAL **IMPLANT**

Abstract: Source: US2007020582A The invention relates to a novel embodiment of a dental **implant** comprising a root section or root shaft that can be anchored within a jaw preferably by screwing, and a cap which is made of a solid material and can be fixed onto a coronal area of the shaft by means of an adhesive bond.

Classifications:
International (IPC 8-9): A61C13/08 A61C8/00 (Advanced/Invention);
A61C19/06 A61C8/00 (Advanced/Non-invention);
A61C13/08 A61C8/00 (Core/Invention);
A61C19/00 (Core/Non-invention)
International (IPC 1-7): A61C8/00 A61K6/02
CPC: A61C8/0012 A61C8/005 A61C8/0066 A61C19/063 A61C8/0069
European: A61C8/00G1 A61C8/00G1P A61C8/00G1T K61C19/06B K61C8/00E K61C8/00G1T
US: 433/173 433/173P



Family:

Publication number	Publication date	Application number	Application date
AU2003298060 AA	20040709	AU20030298060	20031212
CA2506845 AA	20050520	CA20032506845	20031212
CN1735387 A	20060215	CN200380108496	20031212
DE10304802 A1	20040708	DE20031004802	20030205
DE10358680 A1	20050707	DE20031058680	20031212
EP1581142 A2	20051005	EP20030795747	20031212
JP2006509612 T2	20060323	JP20050502407T	20031212
KR20050084293 A	20050826	KR20057010850	20050613
US2007020582 AA	20070125	US20030538718	20031212
WO04054464 A2	20040701	WO2003DE04117	20031212
WO04054464 A3	20041202	WO2003DE04117	20031212
WO04054464 C1	20051006	WO2003DE04117	20031212

Priority:
DE20021058691 20021213 DE20031004802 20030205 WO2003DE04117 20031212
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Probable Assignee: NEUMEYER STEFAN DR

Assignee(s): (std): NEUMEYER STEFAN ; NEUMEYER STEFAN DR

Inventor(s): (std): NEUMEYER STEFAN ; NEUMEYER STEFAN DR

Inventor(s): STEFAN NEUMEYER

Agent(s): RIDOUT AND MAYBEE LLP; HOFFMAN WASSON AND GITLER PC CRYSTAL CENTER 2 SUITE 522

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 ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NE NI NL NO NZ OM PG PH PL PT RO RU SC SD SE SG SI SK SL SN SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

Title: IONIC PLASMA DEPOSITION OF ANTI-MICROBIAL SURFACES AND THE ANTI-MICROBIAL SURFACES RESULTING THEREFROM

Abstract: Source: US2005003019A A process for depositing anti-microbial materials into or onto the surface of a substrate using ionic plasma deposition. The process includes the steps of providing a cathode of target material having anti-microbial potential which is disposed within a partial vacuum, powering the cathode to generate a plasma discharge for ionizing the target material into a plasma of constituent particles. The plasma particles are reacted with ionized gas, and are selected, controlled and directed toward the substrate by electromagnetic fields generated by at least one first anode adjacent to the cathode and at least one second anode positioned adjacent the first anode. Additional anode structures and charged screens provide further control of the plasma constituents. The plasma constituents, comprising the anti-microbial materials, are deposited on the substrate as dispersed ordered structures which form an anti-microbial surface into and onto the substrate.

Classifications:

International (IPC 8-9): A01N25/00 A01N25/12 A01N59/00 A01N59/16 A01N59/20 A61F2/02 A61F2/06 A61K33/24 A61K33/38 A61K6/00 A61L15/16 A61L17/00 A61L27/00 A61L29/00 A61L29/10 A61L31/00 A61L33/00 A61M25/00 A61N1/04 A61N1/05 B05D3/02 C23C14/00 C23C14/06 C23C14/08 C23C14/14 C23C14/16 C23C14/18 C23C14/20 C23C14/24 C23C14/30 C23C14/32 C23C14/34 C23C14/58 H01B5/14 (Advanced/Invention);

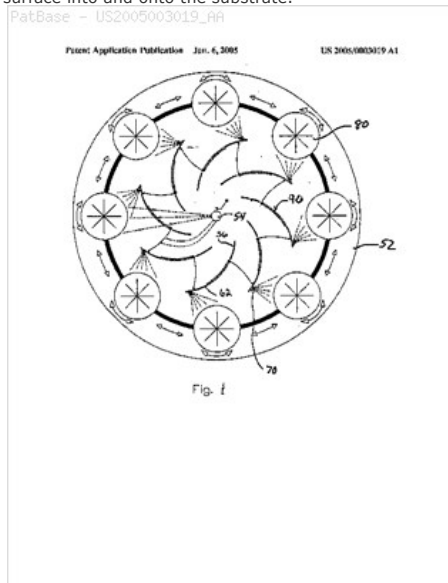
A01N25/00 A01N25/12 A01N59/00 C23C14/32 C23C14/34 (Advanced/Non-invention); A61F2/06 A61L27/00 A61L29/00 A61L31/00 A61L33/00 A61M25/00 A61N1/05 C23C14/00 C23C14/06 C23C14/08 C23C14/14 C23C14/20 C23C14/24 C23C14/28 C23C14/34 C23C14/58 H01B5/14 (Core/Invention); C23C14/34 (Core/Non-invention); C23C (Subclass/Invention)

International (IPC 1-7): A01N25/00 A01N25/12 A01N59/00 A01N59/20 A61K33/24 A61K33/38 C23C14/24 C23C14/32

CPC: C23C14/16 A61C8/0012 A61L29/106 A61L29/16 A61L31/088 A61L31/16 A61L2300/102 A61L2300/104 A61L2300/404 A61L2300/606 C23C14/08 C23C14/14 A01N59/16 C23C14/0021 H01J37/34 A61N1/05 A61N1/3752 C23C14/20 H01J37/32412 C23C14/0688 C23C14/18 C23C14/205 C23C14/325 C23C14/54

European: A01N59/16 A61C8/00E A61L29/10R A61L29/16 A61L31/08B6 A61L31/16 C23C14/00F C23C14/06N C23C14/08 C23C14/14 C23C14/16 C23C14/18 C23C14/20 C23C14/20B C23C14/32A C23C14/54 H01J37/32J H01J37/32M24 H01J37/34 K61L300/102 K61L300/104 K61L300/404 K61L300/606 T01J237/36

US: 174/126.4 174/126.400S 204/192.1 204/192.100S 204/192.38 204/298.41 424/617 424/617P 424/618 424/618P 424/618S 424/63 424/630 424/630S 424/641 424/641S 424/649 424/649S 424/655 424/655S 427/2.24 427/2.240P 427/2.25 427/2.26 427/2.260 427/2.260S 427/453 427/454 607/115 607/116 607/119 607/119P 623/1.46 623/1.460P 623/11.11 623/2.42 623/23.6 623/23.71 623/23.73 977/906 977/906S



Family:

Publication number	Publication date	Application number	Application date
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CA2635062 AA	20080728	CA20072635062	20070119
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CN101370956 A	20090218	CN200680052711	20061107
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CN101490303 A	20090722	CN200680053359	20061106
DE602007012667 D1	20110407	DE200760012667T	20070119
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EP1996744 A2	20081203	EP20070762413	20070119
EP1996744 A4	20090311	EP20070762413	20070119
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IL192889 A0	20090803	IL20080192889	20080717
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IN07319DN2008 A	20080926	IN2008DN07319	20080828
JP2006515387 T2	20060525	JP20040563746T	20031218
JP2009524479 T2	20090702	JP20080552353T	20070119
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US2014127391 AA	20140508	US20140149271	20140107
US8066854 BB	20111129	US20060406607	20060419
US8623446 BB	20140107	US20060542531	20061003
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WO04059027 A3	20040826	WO2003US40337	20031218
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WO07087269 A3	20071025	WO2007US01695	20070119
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Priority:

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Probable Assignee: METASCAPE LLC

Assignee(s): (std): IONIC FUSION CORP ; IONIC FUSION CORPORARTION ; IONIC PLASMA CORP ; MCGRATH TERRENCE S ; PETERSEN JOHN H ; STOREY DANIEL M ; SEWALL CELDRE ; SEWELL DEIDRE ; PETERSON JOHN H ; NANOSURFACE TECHNOLOGIES LLC ; METASCAPE LLC ; CHAMELEON SCIENT CORP

Assignee(s): CHAMELEON SCIENTIFIC CORP ; SURFATEK LLC ; SUMMIT LIFE SCIENCE PARTNERS LLC

Inventor(s): (std): STOREY DANIEL M ; STOREY DANIEL ; SEWALL CELDRE ; PETERSON JOHN ; PETERSEN JOHN H ; MCGRATH TERRENCE S ; MCGRATH TERRENCE ; DEIDRE SEWELL ; SEWELL DEIDRE ; PETERSON JOHN H ; JOHN H PETERSEN

Inventor(s): DANIEL M STOREY ; JOHN H PETERSON ; TERRENCE S MCGRATH ; PETERSEN JOHN

Agent(s): PIZZEYS PATENT AND TRADE MARK ATTORNEYS; MBM INTELLECTUAL PROPERTY LAW LLP; ZWICKER JOERK ET AL; ZWICKER JOERK; MCANDREWS HELD AND MALLOY LTD; BARBARA S KITCHELL; SALIWANCHIK LLOYD AND SALIWANCHIK, A PROFESSIONAL ASSOCIATION; SALIWANCHIK LLOYD AND SALIWANCHIK A PROFESSIONAL ASSOCIATION; SALIWANCHIK LLOYD AND EISENSCHENK

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 YU ZA ZM ZW

Title: INITIATORS AND CROSSLINKABLE POLYMERIC MATERIALS

Abstract: Source: US2006052471A The present invention relates to novel initiator systems, **methods** of use, and cured composition **for** dental, orthopedic and drug delivery purpose. Specifically, it relates to a crosslinkable prepolymer where crosslinking is initiated by a two part system and a composition comprising an admixture of a resorbable bone substitute and a crosslinkable prepolymer. It also relates to the composition formed by crosslinking the admixture and a delivery system **for** cross-linking the polymer.

Classifications:

International (IPC 8-9): A61C13/08 A61C8/00 A61F2/00 A61F2/02 A61F2/28 A61K38/00 A61K38/18 A61K41/00 A61K47/30 A61K6/08 A61K6/083 A61K6/087 A61L27/00 A61L27/14 A61L27/16 A61L27/26 A61L27/36 A61L27/50 A61L27/54 A61L27/58 A61L31/00 B29C35/08 B29C67/20 C08F2/44 C08F2/46 C08F2/50 C08F20/08 C08F22/04 C08F220/00 C08F220/06 C08F220/20 C08F220/62 C08F220/64 C08F220/66 C08F222/02 C08F222/10 C08F290/06 C08F4/00 C08J3/24 C08J3/28 C08L29/04 C08L33/12 C08L33/14 C08L67/00 C08L71/00 C08L71/02 (Advanced/Invention); A61C13/08 A61C8/00 A61F2/28 A61L27/00 B29C35/08 C08F2/46 C08F222/00 C08J3/28 (Core/Invention); A61K (Subclass/Invention)
International (IPC 1-7): A61C13/08 A61C8/00 A61F2/28 B29C35/08 C08J3/28
CP: A61K6/0052 A61K6/0055 A61K6/083 A61L2300/414 A61L2300/604 A61L27/54 A61C8/0009 A61L27/16 A61L2300/602 A61L2430/02 C08F222/04 C08F222/1006 A61L2300/406
European: A61C8/00C2 A61K6/00E2 A61K6/00E3 A61K6/083 A61L27/16 A61L27/26 A61L27/36 A61L27/54 A61L27/58 C08F220/58 C08F222/04 C08F222/10B K61L300/402 K61L300/404 K61L300/406 K61L300/408 K61L300/410 K61L300/412 K61L300/414 K61L300/440 K61L300/602 K61L300/604 K61L430/02
US: 264/241 264/241S 264/496 424/423 424/423P 424/426 433/201.1 433/228.1 514/12 514/772.3 514/772.300S 522/1 522/111 522/13 522/14 522/142 522/1S 522/24 522/26 522/28 522/48 522/7 522/7P 522/87 523/114 523/115 523/115S 525/302 525/302S 525/404 525/404S 525/411 525/411S 525/418 525/418S 525/56 525/56S 623/23.62 623/23.63



Family:

Publication number	Publication date	Application number	Application date
CA2514430 AA	20050721	CA20042514430	20040227
CA2624227 AA	20080328	CA20062624227	20060706
EP1629031 A2	20060301	EP20040715672	20040227
EP1629031 A4	20060614	EP20040715672	20040227
EP1951790 A2	20080806	EP20060774534	20060706
EP1951790 A4	20091230	EP20060774534	20060706
HK1082755 A3	20060616	HK20060104047	20060403
JP2006519295 T2	20060824	JP20060503906T	20040227
US2006052471 AA	20060309	US20050240747	20050930
US2006148923 AA	20060706	US20040789442	20040226
US2008318862 AA	20081225	US20080119489	20080512
US2011196061 AA	20110811	US20110027143	20110214
US7393493 BB	20080701	US20040789442	20040226
US7585515 BB	20090908	US20080119489	20080512
WO04075862 A2	20040910	WO2004US05959	20040227
WO04075862 A3	20050120	WO2004US05959	20040227
WO07081396 A2	20070719	WO2006US26322	20060706
WO07081396 A3	20090416	WO2006US26322	20060706
WO07081396 C2	20070907	WO2006US26322	20060706

Priority:
US20030450538P 20030227 US20040789442 20040226 US20050240747 20050930
WO2006US26322 20060706 US20080119489 20080512 WO2004US05959 20040227
US20110027143 20110214

Probable Assignee: A ENTERPRISES INC

Assignee(s): (std): ASHMAN ARTHUR ; ENTPR INC A ; SHASTRI V P ; SHASTRI V PRASAD

Assignee(s): SHASTRI V ; A ENTERPRISES INC

Inventor(s): (std): ASHMAN ARTHUR ; SHASTRI V P ; SHASTRI V PRASAD

Inventor(s): SHASTRI V

Agent(s): GOUDREAU GAGE DUBUC ; DANIELS JEFFREY NICHOLAS; DARBY AND DARBY PC; OLSON PHD LYDIA G; LYDIA G

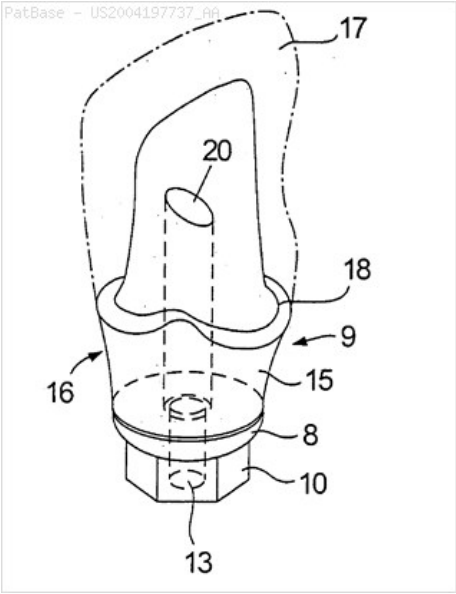
Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD MG MK ML MN MR MW MX MZ NA NE NG NI NL NO NZ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

Title: METHOD AND MANUFACTURING IMPLANT ABUTMENTS FOR DENTAL IMPLANTS, AND AN IMPLANT ABUTMENT FOR A DENTAL IMPLANT

Abstract: Source: US2004197737A The invention relates to a method for manufacturing implant abutments 9 for dental implants 1, wherein the implant abutment 9 comprises a prefabricated base member 8 for joining the implant abutment to the dental implant 1, and a customized main body 15. The aim of the invention is to simplify this method of manufacturing. To this end, the main body 15 is formed by sintering and/or melting powdery material onto the base member 8 using laser sintering and/or laser melting. The invention relates also to an implant abutment manufactured by such a method.

Classifications:

International (IPC 8-9): A61C1/00 A61C13/00 A61C8/00 A61K6/04 B05D3/00 B22F7/04 (Advanced/Invention); B29C67/00 (Advanced/Non-invention); A61C1/00 A61C13/00 A61C8/00 B22F7/02 (Core/Invention); B29C67/00 (Core/Non-invention)
International (IPC 1-7): A61C13/00 A61C8/00
CPC: A61C13/0013 A61C13/0003 A61C1/0061 A61C8/005 A61C8/0054 A61C8/006 A61C8/0069 B29C67/0051
European: A61C1/00S A61C13/00C A61C8/00G A61C8/00G1 A61C8/00G1T K61C8/00G1C K61C8/00G1H K61C8/00G1T L29C67/00R
US: 419/9 419/9S 427/2.26 427/2.29 433/173 433/173P 433/181 433/201.1



Family:

Publication number	Publication date	Application number	Application date
AT362734 E	20070615	AT20040005756T	20040311
DE10315563 A1	20041028	DE20031015563	20030405
DE502004003858 D1	20070705	DE200450003858T	20040311
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EP1464298 A3	20051228	EP20040005756	20040311
EP1464298 B1	20070523	EP20040005756	20040311
ES2285293 T3	20071116	ES20040005756T	20040311
US2004197737 AA	20041007	US20040818862	20040405
US2007082321 AA	20070412	US20060635301	20061207
US2010021865 AA	20100128	US20090574121	20091006
US8778443 BB	20140715	US20090574121	20091006

Priority:
DE20031015563 20030405 US20040818862 20040405 US20060635301 20061207
US20090574121 20091006

Probable Assignee: BEGO MEDICAL GMBH
Assignee(s): (std): BEGO MEDICAL AG ; BEGO MEDICAL GMBH ; LASCHUETZA HELMUT ; UCKELMANN INGO
Inventor(s): (std): LASCHUETZA HELMUT ; LASCHUETZA HELMUT DR ; LASCHUTZA HELMUT ; LASCHUTZA HELMUT DR ; UCKELMANN INGO
Agent(s): MICHAEL B LASKY ALTERA LAW GROUP; ALTERA LAW GROUP LLC
Designated states: AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PL PT RO SE SI SK TR

Title: **COATED** DENTAL **IMPLANTS**

Abstract: Source: US2006068363A The present invention relates to **coated** dental **implants** which allow a sufficient take of the gingiva onto said dental **implants**, thereby preventing inter alia gingival sulcus and bacterial infections of the gingiva and **methods** of using said **coated** dental **implants for** preventing the formation of gingival sulcus and bacterial infection upon their implantation into a patient.

Classifications:
International (IPC 8-9): A61C13/08 A61C8/00 A61K6/00 A61K6/087 A61L27/34 C08G79/02 C08G79/06 C08L85/02 (Advanced/Invention)
International (IPC 1-7): A61C8/00 A61K6/00 A61L27/34 C08G79/02
CPC: A61C8/0012 A61C8/0013 A61L27/34 C08G79/025 C08L85/02
European: A61C8/00E A61C8/00E1 A61L27/34 C08G79/02B C08L85/02
US: 433/201.1 433/201.100P

Family:

Publication number	Publication date	Application number	Application date
AT493945 E	20110115	AT2004072356T	20040326
AU2004224772 AA	20041007	AU20040224772	20040326
AU2004224772 BB	20090910	AU20040224772	20040326
BRPI0408775 A	20060328	BR2004PI08775	20040326
CA2519811 AA	20050921	CA20042519811	20040326
CA2519811 C	20120710	CA20042519811	20040326
CN100415306 C	20080903	CN200480008022	20040326
CN1771063 A	20060510	CN200480008022	20040326
DE602004030892 D1	20110217	DE200460030892T	20040326
EP1605983 A1	20051221	EP20040723565	20040326
EP1605983 B1	20110105	EP20040723565	20040326
ES2355727 T3	20110330	ES20040723565T	20040326
HK1084612 A3	20060804	HK20060106326	20060601
IN04244DN2005 A	20070831	IN2005DN04244	20050920
JP2006525386 T2	20061109	JP20060504884T	20040326
JP2011093911 A2	20110512	JP20100276374	20101210
KR20050120665 A	20051222	KR20057018015	20050926
NO20054597 A	20051025	NO20050004597	20051006
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US2006068363 AA	20060330	US20050234988	20050926
US2007122768 AA	20070531	US20060541888	20061002
WO04084966 A1	20041007	WO2004EP03262	20040326

Priority:
US20030457694 20030326 US20030457694P 20030326 US20050234988 20050926
JP20060504884 20040326 WO2004EP03262 20040326 WO2004EP03262 20040326
US20060541888 20061002

Probable Assignee: CELONOVA BIOSCIENCES GERMANY GMBH
Assignee(s): (std): CELONOVA BIOSCIENCES GERMANY GMBH ; DENK ROMAN ; POLYZENIX GMBH
Assignee(s): WAGNER ULRICH
Inventor(s): (std): DENK ROMAN ; ROMAN DENK ; WAGNER ULRICH DR ; WAGNER ULRICH
Inventor(s): ULRICH WAGNER DR ; WAGNER DR ULRICH
Agent(s): AHEARN FOX; MARKS AND CLERK; MAUGHAN SOPHIE LOUISE; FLASTER GREENBERG PC; FLASTER GREENBERG PC 8 PENN CENTER
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

Title: ORTHOPEDIC AND DENTAL ENDOSSEOUS IMPLANTS AND THEIR PREPARATION METHOD

Abstract: Source: US2005161120A The present invention provides an orthopedic and dental endosseous implant material having a ceramic coating with good adhesion on a metal substrate, and a method for producing this material, and a coating having a gradient composition composed of a ceramic or metal is formed on a ceramic or metal substrate to moderate the residual stress produced by the difference between the coefficients of thermal expansion of the substrate and the coating, thereby increasing the stability of the coating. With this orthopedic and dental endosseous implant material, and the production method thereof, a combination of a metal or ceramic powder having a coefficient of thermal expansion similar to that of the substrate and a metal or ceramic powder having a coefficient of thermal expansion different from that of the substrate is used as the above-mentioned metal or ceramic, a composite composition is formed using this mixture of powders, the metal is nitrided during the formation of a gradient composition, and a nitride layer is formed in the metal in the gradient composition, thereby increasing the stability of the coating.

Classifications:

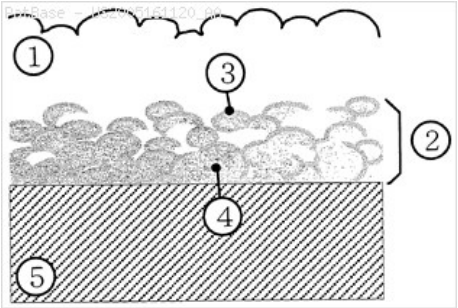
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International (IPC 1-7): A61C8/00 A61F2/28 A61L27/00

CPC: A61C8/0012 A61C8/0013 A61F2/30767 A61F2/3094 A61F2002/30037 A61F2002/30929 A61F2310/00017 A61F2310/00023 A61F2310/00796 A61F2310/00856 A61F2310/0088 A61L27/306 A61L27/32 C23C4/02 C23C4/12 C23C4/18

European: A61C8/00E A61C8/00E1 A61F2/30L A61L27/30R A61L27/32 C23C4/02 C23C4/12 C23C4/18 K61F2/30A1N16 K61F2/30L8 K61F2/30M K61F310/00A2A K61F310/00A2E K61F310/00L6E K61F310/00L6N K61F310/00L6N22

US: 148/220 427/2.27 427/2.270S 433/201.1 433/201.100S 623/23.5 623/23.500S 623/23.51 623/23.510S



Family:

Publication number	Publication date	Application number	Application date
JP2005000519 A2	20050106	JP20030169524	20030613
JP4825955 B2	20111130	JP20030169524	20030613
US2005161120 AA	20050728	US20040866132	20040614

Priority:

JP20030169524 20030613

Probable Assignee: HASEGAWA YUKIHARU

Assignee(s): (std): NAT INST OF ADV IND AND TECHNOL ; HASEGAWA KOJI ; NATL INST OF ADV INDUST SCI AND ; NATL INST OF ADV INDUST SCI AMP AMP

Assignee(s): NATIONAL INST OF ADVANCED INDUSTRIAL SCIENCE AND T ; NATIONAL INSTITUTE OF ADVANCED INDUSTRIAL AND TECHNOLOGY ; NATIONAL INSTITUTE OF ADVANCED INDUSTRIAL SCIENCE AND TECHNOLOGY ; NATIONAL INST OF ADVANCED INDUSTRIAL AND TECHNOLOGY ; NATIONAL INST OF ADVANCED INDUSTRIAL SCIENCE AND TECHNOLOGY ; HASEGAWA YUKIHARU ; NATIONAL INST ; NATIONAL INST OF ADVANCED INDUSTRIAL AND TECHNOLOG ; NATL INST OF ADV INDUST SCI AND TECH

Inventor(s): (std): HASEGAWA KOJI ; HASEGAWA YUKIHARU ; INAGAKI MASAHIKO ; KAMEYAMA TETSUYA

Agent(s): OBLON SPIVAK MCCLELLAND MAIER AND NEUSTADT PC

Title: DENTAL IMPLANT

Abstract: The invention relates to a dental implant (100) comprising a sleeve element (102) for inserting into the jawbone, said sleeve element (102) comprising an envelope region (104) and consisting of at least one material suitable for osseointegration, and an implant core (150). Said implant core has a longitudinal axis (162), a lower fixing region (152) that is fitted at least into the envelope region (104) by the sleeve element (102) in order to fix the implant core (150) in the sleeve element (102), and an upper build-up region (154) that extends past the upper edge (106) of the envelope region (104) during the fixing of the implant core (150) in the sleeve element (102), and is used to apply auxiliary or build-up elements known per se. At least outer regions of the implant core (150) consist of a material having a coloration essentially corresponding to the natural tooth substance. Preferably, the upper edge (106) of the envelope region has an essentially undulating shape, imitating the natural course of the alveolar edge. The inventive dental implant enables a simple, individual adaptation of the upper edge of the sleeve element to the edge of the bone cavity and enables improved integration of the implant and a long-term aesthetically improved appearance of the used crown structure. The invention also relates to a build-up element, and to a method for producing the dental implant or the build-up element.

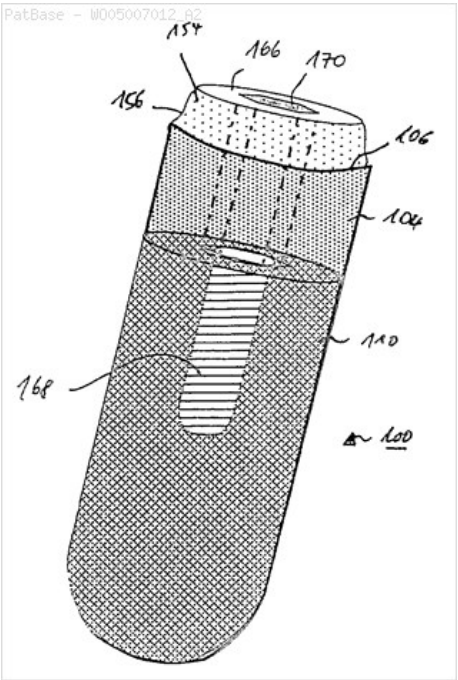
Classifications:

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

International (IPC 1-7): A61C8/00

CPC: A61C8/005 A61C8/0054 A61C8/006 A61C8/0068 A61C8/0087 A61C8/0077

European: A61C8/00G1 A61C8/00G3 K61C8/00G1C K61C8/00G1H K61C8/00G1S
K61C8/00G3 K61C8/00S



Family:

Publication number	Publication date	Application number	Application date
DE10331524 A1	20050203	DE20031031524	20030711
WO05007012 A2	20050127	WO2004EP07394	20040706
WO05007012 A3	20060323	WO2004EP07394	20040706

Priority:

DE20031031524 20030711

Probable Assignee: LEIMBRUCKNER BERNHARD

Assignee(s): (std): BRUCKNER GERHARD ; LEIMBRUCKNER BERNHARD ; MUELLER JOHANN

Inventor(s): (std): BRUCKNER GERHARD

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 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

Title: MULTI PART NON METAL **IMPLANT**

Abstract: Source: US2006246397A An **implant** is disclosed comprising a fixture component (1) intended **for** insertion into a bone, and at least one further abutment component (3) **for** providing a base **for** a prosthetic superstructure, and a connecting element (9) **for** mechanically securing the abutment (3) to the fixture (1), wherein the fixture (1) comprises an external thread (16) or other protrusions **for** improving engagement between the fixture (1) and the bone, wherein the connecting element (9) detachably interconnects the fixture (1) and the abutment (3), and wherein at least the fixture (1) and the abutment (3) are made of non-metal material, and **method** of making the same.

Classifications:

International (IPC 8-9): A61C13/00 A61C8/00 (Advanced/Invention); A61C8/00 (Advanced/Non-Invention)

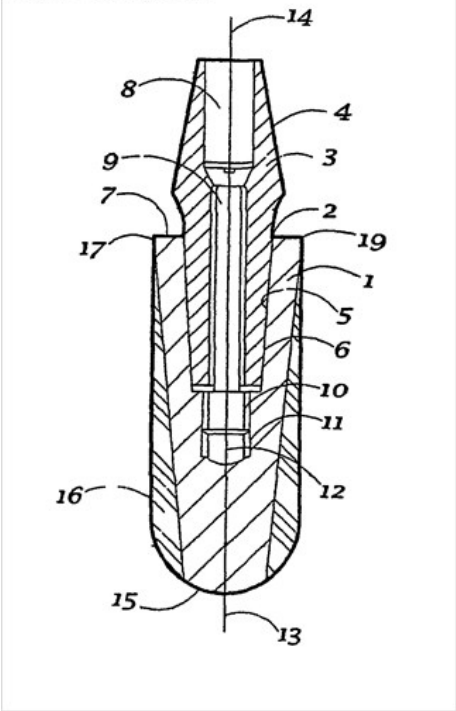
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European: A61C13/00C A61C8/00C1A A61C8/00E A61C8/00F2 A61C8/00F30S A61C8/00G1 A61C8/00G1T K61C8/00E1 K61C8/00F30T K61C8/00G1C K61C8/00G1H K61C8/00G1S K61C8/00G1T K61C8/00G1T1

US: 433/173 433/173P

PatBase - US2006246397_RR



Family:

Publication number	Publication date	Application number	Application date
BRPI0416162 A	20070123	BR2004PI16162	20041025
CN1889896 A	20070103	CN200480035740	20041025
EP1529498 A1	20050511	EP20030025238	20031105
EP1529498 B1	20140611	EP20030025238	20031105
EP1529498 B9	20140910	EP20030025238	20031105
ES2501940 T3	20141002	ES20030025238T	20031105
HK1098035 A3	20070713	HK20070104317	20070424
JP2007531555 T2	20071108	JP20060538151T	20041025
KR101154222 B1	20120618	KR20067008746	20041025
KR20060107531 A	20061013	KR20067008746	20041025
PT1529498 T	20140917	PT20030025238T	20031105
US2006246397 AA	20061102	US20060406652	20060419
WO05044134 A1	20050519	WO2004US35327	20041025

Priority:

EP20030025238 20031105 WO2004US35327 20041025 US20060406652 20060419

Probable Assignee: DENTSPLY IMPLANTS MFG GMBH

Assignee(s): (std): DENTSPLY IMPLANTS MFG GMBH ; DENTSPLY INT INC ; DIETRICH WOLF ; FRIADENT GMBH

Assignee(s): DENTSPLY INTERNATIONAL INC

Inventor(s): (std): DIETRICH WOLF ; WOLF DIETRICH

Agent(s): LUEDCKE JOACHIM MORITZ; LEHMANN MARIA ISABEL; MOTOMIYA TERUHISA; FUJINO IKUO; TAKANASHI NORIMICHI; KATO NOBUAKI; OCHI TAKAO; OKABE MASAO; USUI SHINICHI; OKABE YUZURU; DENTSPLY INTERNATIONAL INC; DENTSPLY INT INC

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

Title: METALLIC BONE **IMPLANT** HAVING IMPROVED IMPLANTABILITY AND **METHOD** OF MAKING THE SAME

Abstract: Source: US2005171615A An **implantable** device composed of a biocompatible material having an enhanced surface topography that has an **implanted** calcium ion concentration and **method** of making the same.

Classifications:

International (IPC 8-9): A61F2/28 A61F2/30 A61L27/04 A61L27/30 A61L27/32

A61L27/56 B05D3/12 B05D5/02 (Advanced/Invention);

A61C8/00 A61F2/00 A61F2/32 A61F2/38 A61F2/44 (Advanced/Non-invention)

International (IPC 1-7): A61F2/28

CPC: A61C8/0006 A61C8/0012 A61C8/0013 A61F2/30767 A61F2/30771 A61F2/32

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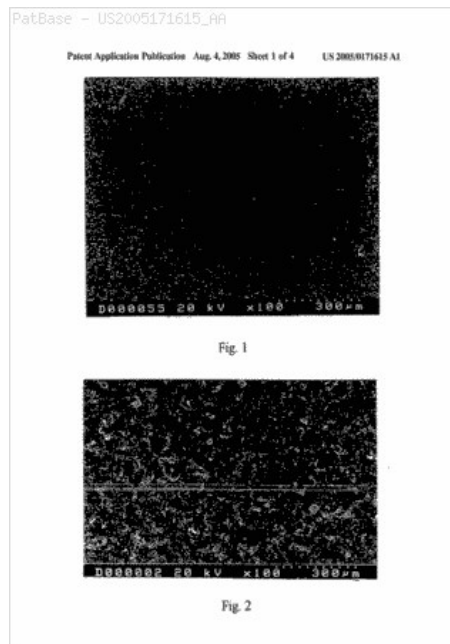
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US: 427/2.1 427/2.24 427/2.25 427/2.27 427/256 623/11.11 623/23.5 623/23.500P

623/23.57 623/23.570S 623/23.76 623/23.760S



Family:

Publication number	Publication date	Application number	Application date
US2005171615 AA	20050804	US20050046938	20050131
US7981461 BB	20110719	US20050046938	20050131
WO05074530 A2	20050818	WO2005US02626	20050131
WO05074530 A3	20060803	WO2005US02626	20050131
WO05074530 B1	20060921	WO2005US02626	20050131

Priority:

US20040540433P 20040130 US20050046938 20050131

Probable Assignee: STOUSE LEE A

Assignee(s): (std): GEORGETTE FREDERICK S ; STOUSE LEE A ; STOUSE LEE ALLEN

Inventor(s): (std): GEORGETTE FREDERICK S ; STOUSE LEE A ; STOUSE LEE ALLEN

Inventor(s): STOUSE LEE ; GEORGETTE FREDERICK

Agent(s): YOUNG AND BASILE PC

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

Title: **METHOD** OF MANUFACTURING AND INSTALLING A **CERAMIC** DENTAL **IMPLANT WITH** AN AESTHETIC **IMPLANT** ABUTMENT

Abstract: Source: US2009042167A The present invention relates to a **method for** manufacturing a tooth prosthesis, **for** insertion in a jawbone, including an **implant** and an abutment on top of the **implant**. The **method** includes: defining a shape of the prosthesis and its location in the jawbone by using first data from a first CT scan image of the jawbone and second data from a second image of a gypsum cast, correlating first and second data by extracting from the first data first position reference data of a first reference in the first image, and from the second data second position reference data of a second reference in the second image, the second reference being identical to the first reference; performing a geometric transformation on the second data and/or the first data to have a coincidence of the second image **with** the first image and to combine the first and second data into composite scan data.

Classifications:

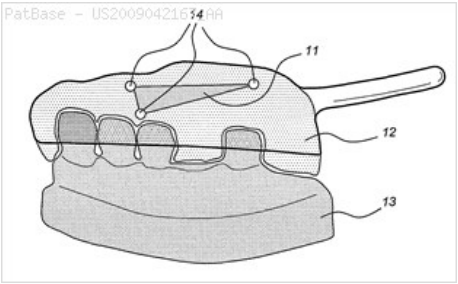
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International (IPC 1-7): A61C1/08 A61C13/00 A61C8/00 G01J3/46

CPC: A61C13/0004 A61C1/084 A61C8/0012 A61C8/0013 A61C8/005 A61C8/0069 A61C9/0053 A61C13/0003 A61C13/0019 A61C13/0022 A61C13/206 G01J3/46 G01J3/463 G01J3/508

European: A61C1/08F1 A61C13/00C A61C13/00C1 A61C13/00C3P A61C8/00E A61C8/00G1T G01J3/46 G01J3/46D G01J3/50T K61C13/00C5 K61C13/20P K61C8/00E1 K61C8/00G1 K61C8/00G1T K61C9/00E

US: 382/128 382/128S 433/172 433/172S 433/173 433/173S 433/201.1 433/213 433/214 433/214S 433/215 433/215P



Family:

Publication number	Publication date	Application number	Application date
CA2580374 AA	20070313	CA20042580374	20040914
CA2580374 C	20141118	CA20042580374	20040914
EP1791491 A1	20070606	EP20040774940	20040914
JP2008513094 T2	20080501	JP20070532261T	20040914
KR101235320 B1	20130221	KR20077008655	20040914
KR20070054723 A	20070529	KR20077008655	20040914
US2009042167 AA	20090212	US20040662866	20040914
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WO06031096 A1	20060323	WO2004NL00635	20040914

Priority:

US20040662866 20040914 WO2004NL00635 20040914

Probable Assignee: CYRTINA DENTAL GROUP BV

Assignee(s): (std): ORATIO B V ; ORATIO BV ; VAN DER ZEL JOSEPH MARIA ; ZEL JOSEPH MARIA VAN D

Assignee(s): ORATIO BVCOLE PORTERHOF 168NL-1628 TNHOORNNL ; CYRTINA DENTAL GROUP BV ; CYRTINA DENTAL GROUP BVCOLE PORTERHOF 168NL-1628 TNHOORNNL

Inventor(s): (std): ZEL JOSEPH MARIA VAN D ; VAN DER ZEL JOSEPH MARIA

Inventor(s): ZEL JOSEPH MARIA VAN DNL

Agent(s): GOWLING LAFLEUR HENDERSON LLP; WEBB LAW FIRM PC; THE WEBB LAW FIRM; WEBB LAW FIRM

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

Title: Zahnimplantat

Abstract: Tooth **implant** (1) has a titanium root-shaped part (10) and a **ceramic** part (5) that remains above the jaw bone. Both parts are firmly connected to each other during pre-assembly before **implanting** in the mouth. The invention also relates to a corresponding **method** of manufacture **for** a tooth **implant**.

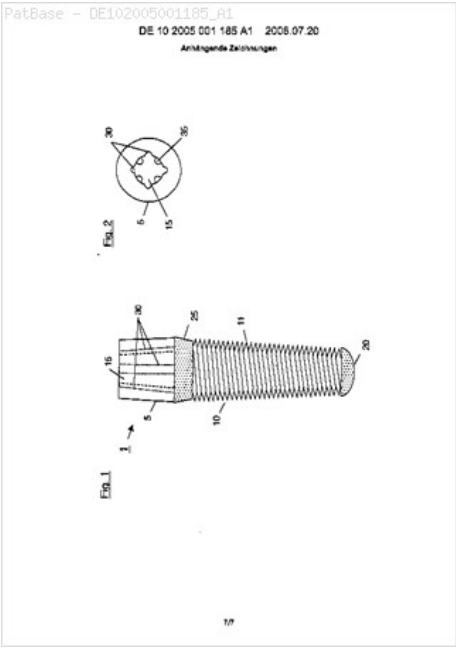
Classifications:

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

A61C8/00 (Core/Invention)

CPC: A61C8/0012 A61C8/0022 A61C8/0075 A61C2008/0046

European: A61C8/00E A61C8/00G2 K61C8/00F2 K61C8/00F30T



Family:

Publication number	Publication date	Application number	Application date
DE102005001185 A1	20060720	DE200510001185	20050110
DE102005001185 B4	20090910	DE200510001185	20050110

Priority:

DE200510001185 20050110

Probable Assignee: BONGARD PETER

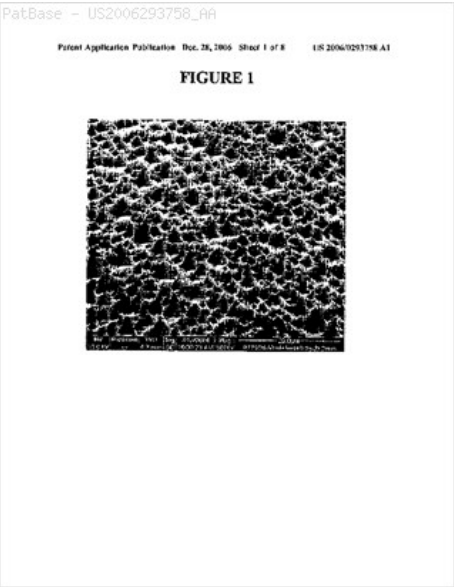
Assignee(s): (std): BONGARD PETER

Inventor(s): (std): BONGARD PETER

Title: **IMPLANTS WITH** TEXTURED SURFACE AND **METHODS FOR** PRODUCING THE SAME

Abstract: Source: US2006293758A Compositions and **methods** are provided **for** preparing a metal substrate having a uniform textured surface **with** a plurality of indentations **with** a diameter in the nanometer and micrometer range. The textured surface is produced by exposing the substrate to an etching fluid comprising a hydrogen halide acid and/or an oxyacid, a chloride containing compound, and an oxidizing agent. The etching solution can be used at ambient temperature without damaging the metal elements on the substrate surface. This textured surface enhances adherence of **coatings** or cells onto the textured surface, improves the retention of proteins on the surface, and encourages bone in-growth.

Classifications:
International (IPC 8-9): A61C8/00 A61F2/00 A61F2/02 A61F2/28 A61F2/30 A61K6/00 A61L27/04 A61L27/10 A61L27/28 (Advanced/Invention); A61F2/02 A61F2/28 A61F2/30 A61L27/00 (Core/Invention)
CPC: A61C8/0012 A61C8/0013 A61C2008/0046 A61F2/0077 A61L27/047 A61L27/306 A61L27/50 C23F1/28
European: A61C8/00E A61C8/00E1 A61L27/04R A61L27/30R A61L27/50 C23F1/28 K61C8/00F30T K61F2/00L
US: 623/23.5 623/23.500P 623/23.76 623/23.760S



Family:

Publication number	Publication date	Application number	Application date
AU2006202728 AA	20070118	AU20060202728	20060623
AU2006202728 BB	20111020	AU20060202728	20060623
EP1736181 A1	20061227	EP20060252690	20060524
JP2007000635 A2	20070111	JP20060172928	20060622
US2006293758 AA	20061228	US20050165209	20050623
US7901462 BB	20110308	US20050165209	20050623

Priority:

US20050165209 20050623

Probable Assignee: DEPUY PRODUCTS INC

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

Inventor(s): (std): LI PANJIAN ; PANJIAN LI ; SMITH TODD ; TODD SMITH ; XIAOFAN YANG ; YANG XIAOFAN

Agent(s): CALLINANS; FISHER ADAMS KELLY CALLINANS; NUTTER MCCLENNEN AND FISH LLP

Designated states: AL AT BA BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK NL PL PT RO SE SI SK TR YU

Title: POROUS **IMPLANT**

Abstract: Source: US2008215098A An **implant** comprising a shaped body having a first region **with** a mean porosity P_2 and a second region **with** a mean porosity $P_3 < P_2$; wherein the second region **with** the lower mean porosity P_3 is effective **for** handling and fixation of the **implant**.

Classifications:

International (IPC 8-9): A01B71/04 A61B17/86 A61F2/28 A61F2/44 A61L27/00

A61L27/04 C04B33/32 (Advanced/Invention);

A61F2/44 (Advanced/Non-invention);

A61B17/68 A61F2/44 C04B33/32 (Core/Invention)

International (IPC 1-7): A61F2/44

CPC: A61C8/0012 A61C13/0022 A61F2/28 A61F2/44 A61F2/4611 A61F2002/30006 A61F2002/30011 A61F2002/30013 A61F2002/30321 A61F2250/0015 A61F2250/0023 A61F2250/0024 A61F2250/0025 A61F2310/00017 A61F2310/00023 A61F2310/00041 A61F2310/00131 A61F2310/00179

European: A61C13/00C5 A61C8/00E A61F2/28 K61F2/30A1N1 K61F2/30A1N3 K61F2/30A1N3N K61F2/30A3N4 K61F2/44 K61F2/46B7 K61F250/00N1 K61F250/00N8 K61F250/00N8N K61F250/00N9 K61F310/00A2A K61F310/00A2E K61F310/00A2R12 K61F310/00A2R73 K61F310/00A6

US: 264/671 264/671S 606/301 606/301P

PatBase - US2008215098_AA

Parent Application Publications: Sep. 4, 2008 Sheet 1 of 3 US 2008/0215098 A1

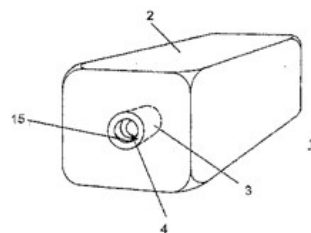


Fig. 1

Family:

Publication number	Publication date	Application number	Application date
AU2005335471 AA	20070215	AU20050335471	20050810
BRPI0520465 A2	20090512	BR2005PI20465	20050810
CA2618771 AA	20080211	CA20052618771	20050810
CA2618771 C	20150324	CA20052618771	20050810
CN101237834 A	20080806	CN200580051267	20050810
CN101237834 B	20121226	CN200580051267	20050810
EP1912596 A1	20080423	EP20050763872	20050810
IN00106MN2008 A	20080222	IN2008MN00106	20080122
JP2009504207 T2	20090205	JP20080525356T	20050810
JP5036715 B2	20120926	JP20080525356	20050810
KR101226779 B1	20130125	KR20087002839	20050810
KR20080042075 A	20080514	KR20087002839	20050810
TW200706189 A	20070216	TW20060124283	20060704
TWI421105 B	20140101	TW20060124283	20060704
US2008215098 AA	20080904	US20080027551	20080207
WO07016796 A1	20070215	WO2005CH00466	20050810

Priority:

WO2005CH00466 20050810 US20080027551 20080207

Probable Assignee: DEPUY SYNTHES PRODUCTS INC

Assignee(s): (std): GIGER LUKAS ; SYNTHES USA ; SYNTHES GMB ; SYNTHES GMBH ; IMWINKELRIED THOMAS ; SYNTHES HOLDING AG

Assignee(s): SYNTHES U S A ; SYNTHES USA LLC ; SYNTHES ; SYNTHES (USA) ; HAND INNOVATIONS LLC ; DEPUY SPINE LLC ; DEPUY SYNTHES PRODUCTS INC ; DEPUY SYNTHES PRODUCTS LLC

Inventor(s): (std): GIGER LUKAS ; IMWINKELREID T ; IMWINKELRIED THOMAS ; JIROU L

Inventor(s): LUKAS GIGER ; THOMAS IMWINKELRIED

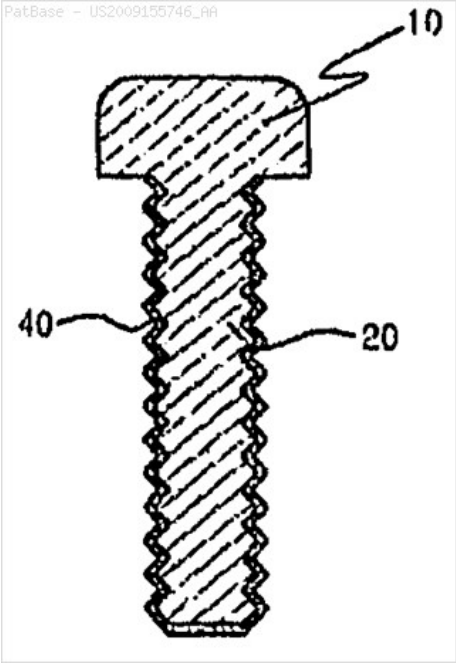
Agent(s): PHILLIPS ORMONDE FITZPATRICK; MARKS AND CLERK; LUSUARDI WERTHER; SCHWEGMAN LUNDBERG AND WOESSNER SYNTHES

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

Title: DENTAL IMPLANT COATED WITH RECOMBINANT BONE MORPHOGENIC PROTEIN AND COATING METHOD THEREOF

Abstract: Source: US2009155746A The present invention relates to a dental implant having recombinant bone morphogenic protein coated on the processed surface thereof, which, when implanted into the jawbone, enables undifferentiated adult cells around the implant site to be rapidly differentiated into osteoblasts so as to induce osteoconductive healing to thereby reduce a healing period, as well as a coating method thereof. According to the invention, recombinant bone morphogenic protein BMP-2 penetrates between ceramic balls formed on the dental implant surface, sheet structures of calcium triphosphate or fine pores formed by anodic oxidation, so as to form a coating film. Thus, the recombinant bone morphogenic protein BMP-2 is not detached from the dental implant surface even during the surgical implantation of the implant.

Classifications:
International (IPC 8-9): A61C13/00 A61C13/08 A61C8/00 A61F2/02 A61F2/28 A61F2/70 A61L27/22 B05D3/00 (Advanced/Invention); A61C8/00 (Advanced/Non-invention)
CPC: A61C8/0012 A61C8/0013 A61C8/0016 A61F2310/00976 A61L27/30 A61L27/54 A61L2300/252 A61L2300/606 A61L2430/12 A61L27/306
European: A61C8/00E A61C8/00E1 A61L27/30 A61L27/30R A61L27/54 K61C8/00E3 K61F310/00L66 K61L300/252 K61L300/606 K61L430/12
US: 427/2.26 427/2.260S 433/167 433/173 433/174 433/201.1 433/201.100P 623/11.11 623/16.11 623/17.17 623/20.17 623/25.53



Family:

Publication number	Publication date	Application number	Application date
KR100736826 B1	20070709	KR20060059457	20060629
KR20070068240 A	20070629	KR20060059457	20060629
US2009155746 AA	20090618	US20060719740	20061019
US7879092 BB	20110201	US20060719740	20061019
WO07074968 A1	20070705	WO2006KR04234	20061019

Priority:
KR20050129577 20051226 KR20060059457 20060629 WO2006KR04234 20061019

Probable Assignee: COWELLMEDI CO LTD

Assignee(s): (std): COWELL MEDI CO LTD ; COWELLMEDI CO LTD ; KIM SOO HONG

Assignee(s): COWELLMEDI CO ; COWELL MEDI CO

Inventor(s): (std): KIM SOO HONG

Agent(s): PARK LAW FIRM; JOHN K

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 KZ LA LC 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

Title: TWO-PART IMPLANT WITH A HYDROXYLATED SOFT TISSUE CONTACT SURFACE

Abstract: Source: US2007202466A Two-part implant for attachment of artificial teeth comprising a base body having a bone contact surface and a soft tissue contact surface. Said soft tissue contact surface is at least partially hydroxylated or silanated which results in an improved soft tissue integration.

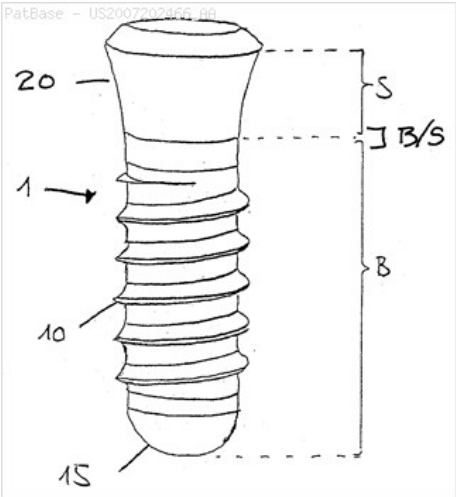
Classifications:

International (IPC 8-9): A61C8/00 A61K6/00 B65D85/50 (Advanced/Invention);
A61K6/04 (Advanced/Non-invention);
A61C8/00 (Core/Invention);
A61K6/02 (Core/Non-invention)

CPC: A61C8/0012 A61C8/0015 A61C8/005 A61L27/50 A61L2400/18 A61L2430/12
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European: A61C8/00E A61C8/00E1C A61C8/00G1 A61L27/50 K61C8/00G1 K61L400/18
K61L430/12

US: 206/63.5 216/53 216/57 216/83 216/96 433/173 433/174 433/174P



Family:

Publication number	Publication date	Application number	Application date
AT516767 E	20110815	AT20060004063T	20060228
AT551966 E	20120415	AT20060014662T	20060228
CA2575934 AA	20070828	CA20072575934	20070126
EP1825830 A1	20070829	EP20060004063	20060228
EP1825830 B1	20110720	EP20060004063	20060228
JP2007229463 A2	20070913	JP20070044391	20070223
JP2013173000 A2	20130905	JP20130095677	20130430
JP2014158984 A2	20140904	JP20140120751	20140611
US2007202466 AA	20070830	US20070680055	20070228
US2013196289 AA	20130801	US20130755044	20130131
US2015086943 AA	20150326	US20140474604	20140902

Priority:

EP20060004063 20060228	CA20072575934 20070126	US20070680055 20070228
US20130755044 20130131	JP20070044391 20070223	JP20130095677 20070223
US20140474604 20140902		

Probable Assignee: STRAUMANN HOLDING AG

Assignee(s): (std): BECKER JURGEN ; DARD MICHEL ; SCHWARZ FRANK ; STRAUMANN HOLDING AG ; WIELAND MARCO

Assignee(s): BECKER JUERGEN

Inventor(s): (std): WIELAND MARCO ; SCHWARZ FRANK DR ; SCHWARZ FRANK ; DARD MICHEL ; BECKER JURGEN ; BECKER JUERGEN PROF DR ; BECKER JUERGEN

Agent(s): FETHERSTONHAUGH AND CO; SCHAAD BALASS MENZL AND PARTNER AG; MIYAZAKI YOSHIO; KATO TSUTOMU; HANABUSA TSUNEO; RISSMAN JOBSE HENDRICKS AND OLIVERIO LLP

Designated states: AL AT BA BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK NL PL PT RO SE SI SK TR YU

Title: ONE-PART IMPLANT WITH A HYDROXYLATED SOFT TISSUE CONTACT SURFACE

Abstract: Source: US2007202464A One-part implant for attachment of artificial teeth comprising an anchoring part and a mounting part, wherein the anchoring part and the mounting part are configured in one piece. The anchoring part of the one-part implant has a bone contact surface B and a soft tissue contact surface S. The soft tissue contact surface S is at least partially hydroxylated or silanated, which results in an improved soft tissue integration.

Classifications:

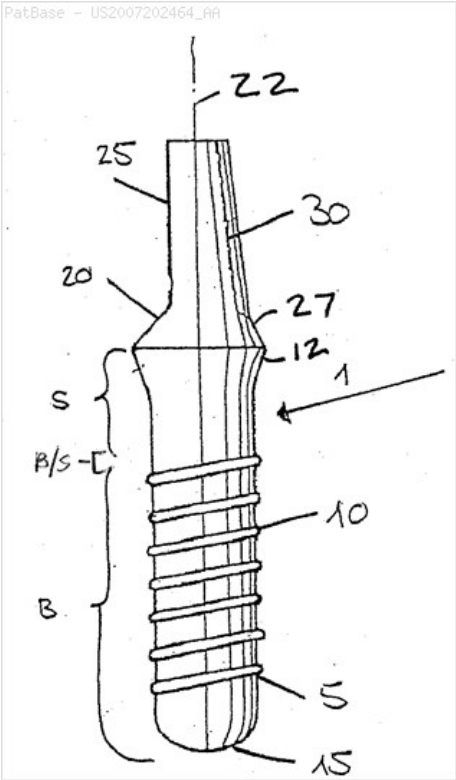
International (IPC 8-9): A61C8/00 (Advanced/Invention);
A61K6/027 A61K6/04 (Advanced/Non-invention);
A61C8/00 (Core/Invention);

A61K6/02 (Core/Non-invention)

CPC: A61C8/0012 A61C8/0013 A61C8/0015 A61C8/0075

European: A61C8/00E A61C8/00E1C A61C8/00G2 K61C8/00E1

US: 433/173 433/173P 433/201.1 433/201.100S



Family:

Publication number	Publication date	Application number	Application date
AT516769 E	20110815	AT20060014663T	20060228
AT519445 E	20110815	AT20060004060T	20060228
CA2575026 AA	20070828	CA20072575026	20070124
EP1825828 A1	20070829	EP20060004060	20060228
EP1825828 B1	20110810	EP20060004060	20060228
JP2007229460 A2	20070913	JP20070043767	20070223
JP5348578 B2	20131120	JP20070043767	20070223
US2007202464 AA	20070830	US20070680048	20070228

Priority:

EP20060004060 20060228 CA20072575026 20070124

Probable Assignee: STRAUMANN HOLDING AG

Assignee(s): (std): STRAUMANN HOLDING AG

Assignee(s): WIELAND MARCO ; BECKER JUERGEN ; DARD MICHEL ; SCHWARZ FRANK

Inventor(s): (std): BECKER JUERGEN ; BECKER JUERGEN PROF DR ; BECKER JURGEN ; DARD MICHEL ; SCHWARZ FRANK ; SCHWARZ FRANK DR ; WIELAND MARCO

Agent(s): SCHAAD BALASS MENZL AND PARTNER AG; RISSMAN JOBSE HENDRICKS AND OLIVERIO LLP

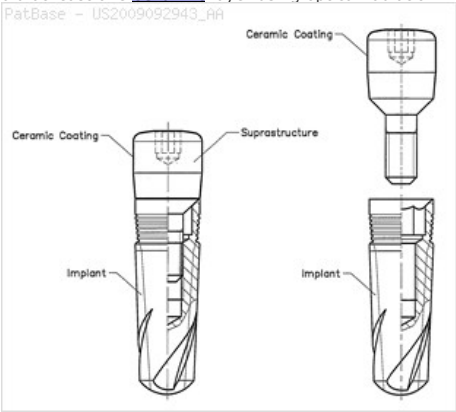
Designated states: AL AT BA BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK NL PL PT RO SE SI SK TR YU

Title: **METHOD FOR** MANUFACTURING METAL **WITH CERAMIC COATING**

Abstract: Source: US2009092943A A **method for** manufacturing a **coated implant**, the **method** comprising depositing in electrophoresis at least one **ceramic** layer on at least a portion of the body of the **implant**; and sintering said at least one **ceramic** layer using optical radiation.

Classifications:

International (IPC 8-9): A61C13/08 A61C13/083 A61C13/225 C25D13/02 C25D13/12 (Advanced/Invention); A61C13/08 A61C13/225 C25D13/02 C25D13/12 (Core/Invention)
CPC: A61C8/0012 A61C8/0013 A61C13/001
European: A61C8/00E A61C8/00E1 K61C13/00C3D
US: 204/478 433/172 433/172P 433/217.1 433/217.100S



Family:

Publication number	Publication date	Application number	Application date
US2009092943 AA	20090409	US20070281742	20070305
WO07102143 A2	20070913	WO2007IL00277	20070305
WO07102143 A3	20090416	WO2007IL00277	20070305

Priority:

US20060778922P 20060306 WO2007IL00277 20070305 US20070281742 20070305

Probable Assignee: TECHNION RESEARCH AND DEVELOPMENT FOUNDATION LTD

Assignee(s): (std): TAMIR SHOSHANA ; TECHNION RES AND DEV FOUNDATION

Assignee(s): TECHNION RESEARCH AND DEVELOPMENT FOUNDATION LTD

Inventor(s): (std): TAMIR SHOSHANA

Agent(s): PEARL COHEN ZEDEK LATZER 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 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

Title: ENOSSAL **IMPLANT** COMPRISING AN ANATASE **COATING**

Abstract: Source: US2009220913A Disclosed is an enossal **implant** comprising a surface layer (28) which is made of the anatase modification of titanium dioxide and which is deposited on a base structure of the **implant**, preferably on an intermediate layer (26) of pure titanium, by means of a pulsed reactive magnetron sputtering process.

Classifications:

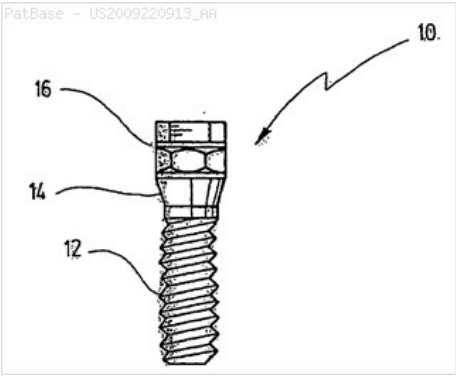
International (IPC 8-9): A61C13/00 A61C8/00 A61K6/04 (Advanced/Invention);

A61C13/00 A61C8/00 (Core/Invention)

CPC: A61C8/0012 A61C13/0003

European: A61C13/00C A61C8/00E

US: 433/173 433/173P 433/215 433/215S



Family:

Publication number	Publication date	Application number	Application date
CA2651740 AA	20081103	CA20072651740	20070504
DE102006021968 A1	20071108	DE200610021968	20060504
DE102006021968 B4	20130822	DE200610021968	20060504
EP2012703 A1	20090114	EP20070722367	20070504
EP2012703 B1	20140716	EP20070722367	20070504
US2009220913 AA	20090903	US20070226989	20070504
WO07128285 A1	20071115	WO2007DE00813	20070504

Priority:

DE200610021968 20060504 WO2007DE00813 20070504

Probable Assignee: EBERHARD KARLS UNIV TUEBINGEN

Assignee(s): (std): EBERHARD KARLS UNI ; EBERHARD KARLS UNIV ; UNIV EBERHARD KARLS ; GEIS GERSTORFER JUERGEN ; FRICKE MARTIN

Assignee(s): EBERHARD KARLS UNIV TUEBINGEN ; EBERHARD KARLS UNIVERSITAET ; EBERHARD KARLS UNIVERSITAET TUEBINGEN

Inventor(s): (std): FRICKE MARTIN ; GEIS GERSTORFER JUERGEN ; GEIS GERSTORFER JUERGEN PROF DR

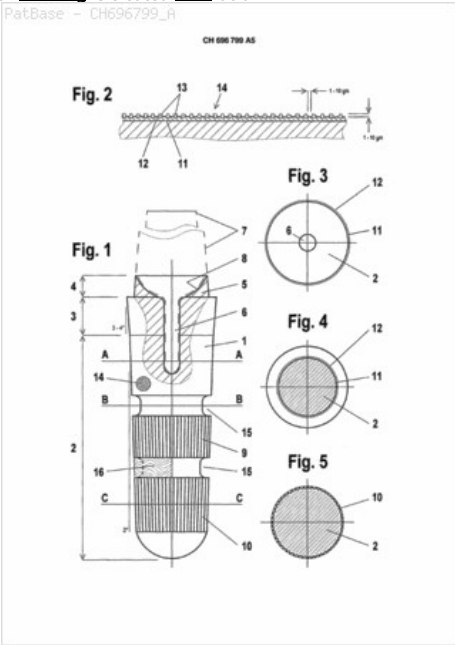
Agent(s): ROTH KLAUS; WILLIAM D BRENNEMAN ESQ BRENNEMAN AND GEORGES

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM 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 MT MW MX MY MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Title: PRODUCTION OF A DENTAL IMPLANT COMPRISES PROVIDING THE SURFACE OF AN ANCHORING SECTION TO BE INSERTED INTO THE JAWBONE WITH A ROUGH AND/OR MICRO-POROUS SURFACE STRUCTURE OR A ROUGH AND/OR MICRO-POROUS COATING

Abstract: Source: CH696799A Production of a dental implant (1) comprises providing the surface (11) of an anchoring part or anchoring section (2) to be inserted into the jawbone with a rough and/or micro-porous surface structure (14) or a rough and/or micro-porous coating. A finely ground material is applied to the surface or in the coating. An independent claim is also included for a dental implant produced by the above process. Preferred Features: The finely ground material produces a surface structure with a depth of 1-10 µm. The finely ground material has grains made from zirconium or a material based on zirconium. The surface or coating is treated with acid.

Classifications:
International (IPC 8-9): A61C8/00 (Advanced/Invention);
A61C8/00 (Core/Invention)
CPC: A61C8/0012 A61C8/0013
European: A61C8/00E A61C8/00E1



Family:

Publication number	Publication date	Application number	Application date
CH696799 A	20071214	CH20040000687	20040421

Priority:

CH20040000687 20040421

Probable Assignee: RUDOLF GSCHWEND DR

Assignee(s): (std): RUDOLF GSCHWEND DR

Assignee(s): DR RUDOLF GSCHWEND

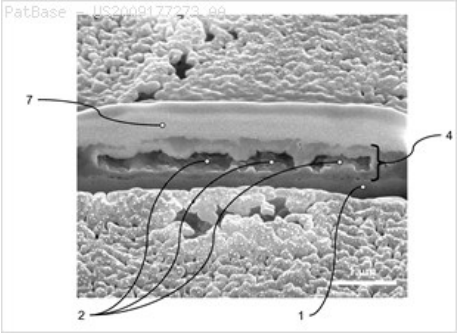
Inventor(s): (std): GSCHWEND DR RUDOLF

Title: ANISOTROPIC NANOPOROUS COATINGS FOR MEDICAL IMPLANTS

Abstract: Source: US2009177273A The present invention relates to a process for fabricating a porous coatings with controlled structure in the micro and nano-size domain. In particular, but not exclusively, it relates to a process for fabricating coatings with an anisotropic pore size distribution and to coatings obtained using such coatings. It describes in particular the use of ink-jet method to deposit in a controlled way such coatings. It also relates to porous coatings with controlled structure in the micro and nano-size domain. The coating has a thickness between 10 nanometers and 10 millimeters and its porosity is created in such a way that the pore size distribution is anisotropic. It finally describes objects covered with this coating.

Classifications:

International (IPC 8-9): A61B17/68 A61C8/00 A61F2/02 A61F2/28 A61F2/82 A61K47/02 A61L27/28 A61L27/30 A61L27/54 A61L27/56 A61L31/00 A61L31/08 A61L31/14 A61M29/02 A61M31/00 B05D3/02 B05D3/06 B32B3/26 B82B1/00 B82B3/00 C04B41/81 C04B41/89 C04B41/91 (Advanced/Invention); A61F2/82 (Advanced/Non-invention)
International (IPC 1-7): A61L27/28
CPC: A61C8/0012 A61C8/0016 A61L27/54 A61L2300/406 A61L2300/414 A61L2300/42 A61L2300/604 A61L2300/606 Y10T428/24942 A61C8/0004 A61C8/0013 A61C2008/0046 A61L27/28 A61L27/56 A61L31/08 A61L2400/12 A61M31/002 A61B17/68 A61C8/0015 A61F2240/001 A61F2250/0068 A61F2/82 A61L31/146 Y10T428/249979
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US: 427/2.25 427/2.250S 428/212 428/212S 428/315.7 428/315.700S 514/769 514/769S 514/770 514/770S 623/1.46 623/1.460P 623/16.11 623/16.110S



Family:

Publication number	Publication date	Application number	Application date
AT442168 E	20090915	AT20070845258T	20070516
CA2651982 AA	20081104	CA20072651982	20070516
CA2651982 C	20140715	CA20072651982	20070516
CN101448534 A	20090603	CN200780017953	20070516
CN101448534 B	20121003	CN200780017953	20070516
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EP2026853 A2	20090225	EP20070845258	20070516
EP2026853 B1	20090909	EP20070845258	20070516
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US2009177273 AA	20090709	US20070300182	20070516
US2015217096 AA	20150806	US20150686737	20150414
WO07148240 A2	20071227	WO2007IB51869	20070516
WO07148240 A3	20080612	WO2007IB51869	20070516

Priority:
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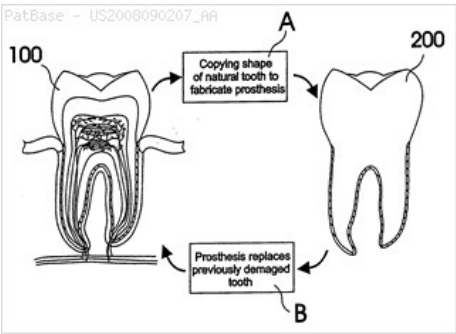
Probable Assignee: DEBIOTECH SA
Assignee(s): (std): DEBIOTECH SA ; HOFMANN HEINRICH ; NEFTEL FREDERIC ; PIVETEAU LAURENT DOMINIQUE
Assignee(s): DEBIOTECH SAAV. DE SEVELIN 28CH-1004LAUSANNECH ; DEBIOTECH S A
Inventor(s): (std): HOFMANN HEINRICH ; LAURENT DOMINIQUE PIVETEAU ; NEFTEL FREDERIC ; PIVETEAU LAURENT DOMINIQUE ; HEINRICH HOFMANN ; FREDERIC NEFTEL
Inventor(s): PIVETEAU LAURENT DOMINIQUECH ; NEFTEL FREDERICCH ; HOFMANN HEINRICHCH
Agent(s): ROBIC; GROSFILLIER PHILIPPE; NIXON AND VANDERHYE PC
Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

Title: CUSTOMIZED DENTAL PROSTHESIS **FOR** PERIODONTAL- OR OSSEOINTEGRATION, AND RELATED SYSTEMS AND **METHODS**

Abstract: Source: US2008090207A A dental prosthesis **for** periodontal integration is disclosed. Furthermore a customized dental prosthesis **for** osseointegration is disclosed having a first manufactured portion shaped to substantially conform to the three-dimensional surface of a root of a tooth to be replaced and a second manufactured portion shaped to substantially conform to the three-dimensional surface of a crown of a tooth to be replaced. Furthermore a customized manufactured splint is disclosed to position and fixate a tooth-shaped prosthesis. Furthermore a CAD/CAM based **method** of and a system **for** manufacturing a customized dental prosthesis replacing an extracted tooth is disclosed, where the extracted tooth is scanned regarding its three-dimensional shape and substantially copied using (a) an imaging system in-vitro like a 3D scanner or in-vivo like a cone beam CT system, (b) CNC machinery and (c) biocompatible material that is suitable to be integrated into the extraction socket and at least partially adopted by the existing tissue forming the socket.

Classifications:

International (IPC 8-9): A61B5/055 A61B6/14 A61C1/00 A61C13/00 A61C13/08 A61C13/09 A61C13/12 A61C5/00 A61C5/08 A61C8/00 A61C8/02 A61C9/00 A61K6/02 A61K6/04 A61L27/28 A61L27/54 C12N5/077 G05B19/4097 G06F17/50 G06F19/16 (Advanced/Invention); A61C13/00 A61C13/08 A61C8/00 A61L27/00 C12N5/077 G05B19/4097 G06F17/50 (Core/Invention)
CPC: A61C19/063 A61C5/08 A61C8/005 G06F17/50 A61C8/0077 A61C8/0066 A61C8/0013 A61K6/024 A61K6/046 A61C13/0006 A61L27/36 A61C13/08 A61C5/007 A61C8/0006 A61C8/0018 A61C8/0048 A61C8/0075 A61C9/0046 A61C13/0013 A61C13/0019 A61C13/082 A61K6/0044 A61K6/0029 A61L27/3804 A61L27/3865 A61L2430/12 A61C9/0053 A61B6/14 A61B5/055 A61C8/006 A61C8/0043 A61C1/0046 A61C8/0089 A61C13/0004 A61C8/0012 A61C8/0036 A61K6/00 A61L27/28 A61L27/54
European: A61C13/00C1 A61C5/00S A61C8/00E A61C8/00F A61C8/00F9 A61C8/00G A61C8/00G3 A61K6/00D4 A61L27/36 A61L27/38B A61L27/38D2H K61C13/00C3F K61C13/00C3P K61C13/08C K61C8/00C1A K61C8/00G2 K61C9/00E K61L430/12
US: 433/171 433/171P 433/172 433/173 433/173P 433/173S 433/175 433/175P 433/201.1 433/201.100S 433/212.1 433/212.100P 435/325 435/325S 700/119 700/119S 700/98 700/98P 700/98S



Family:

Publication number	Publication date	Application number	Application date
AT516768 E	20110815	AT20070075153T	20071016
EP2063804 A2	20090603	EP20070848813	20071016
EP2087852 A1	20090812	EP20090075153	20071016
EP2087852 B1	20110720	EP20090075153	20071016
EP2087852 B8	20111005	EP20090075153	20071016
EP2087853 A1	20090812	EP20090075154	20071016
EP2087853 B1	20151202	EP20090075154	20071016
EP2095789 A1	20090902	EP20090075155	20071016
EP2685927 A1	20140122	EP20120705811	20120206
EP2685931 A1	20140122	EP20120707991	20120206
EP2816967 A2	20141231	EP20130709158	20130219
US2008090207 AA	20080417	US20070724261	20070315
US2008090208 AA	20080417	US20060549782	20061016
US2010203478 AA	20100812	US20100763001	20100419
US2012064489 AA	20120315	US20110247843	20110928
US2012065756 AA	20120315	US20110247607	20110928
US2013158694 AA	20130620	US20130767999	20130215
US2013209961 AA	20130815	US20130767982	20130215
US2013244208 AA	20130919	US20130865778	20130418
US2014080093 AA	20140320	US20130086537	20131121
US7708557 BB	20100504	US20070724261	20070315
US8454362 BB	20130604	US20060549782	20061016
US8602780 BB	20131210	US20100763001	20100419
WO08047204 A2	20080424	WO2007IB03072	20071016
WO08047204 A3	20081016	WO2007IB03072	20071016
WO12126668 A1	20120927	WO2012EP51970	20120206
WO12126669 A1	20120927	WO2012EP51973	20120206
WO13124260 A2	20130829	WO2013EP53246	20130219
WO13124260 A3	20131017	WO2013EP53246	20130219

Priority:

US20060549782	20061016	US20070724261	20070315	WO2007IB03072	20071016
EP20070848813	20071016	US20100763001	20100419	US20110454450P	20110318
US20110247607	20110928	US20110247843	20110928	US20120602470P	20120223
US20130767999	20130215	US20130767982	20130215	WO2012EP51970	20120206
WO2012EP51973	20120206	WO2013EP53246	20130219	US20130865778	20130418
US20130086537	20131121				

Probable Assignee: NATURAL DENTAL IMPLANTS AG

Assignee(s): (std): BERNDT ERNST ULRICH ; MARQUARD JAKOB SEBASTIAN ; NATURAL DENTAL IMPLANTS AG ; NATURAL DENTAL IMPLANTS GMBH ; NATURAL DENTAL INPLANTS AG ; NESBIT LEA ELLERMEIER ; RUBBERT RUEDGER ; SCHMIDT MARTENS HAUKE

Inventor(s): (std): BERNDT ERNST ULRICH ; MARQUARD JAKOB SEBASTIAN ; NESBIT LEA ELLERMEIER ; RUBBERT RUEDGER ; SCHMIDT MARTENS HAUKE

Agent(s): KARGE PETER; FISCHER UWE; BIRCH STEWART KOLASCH AND BIRCH; BRACEWELL AND GIULIANI LLP

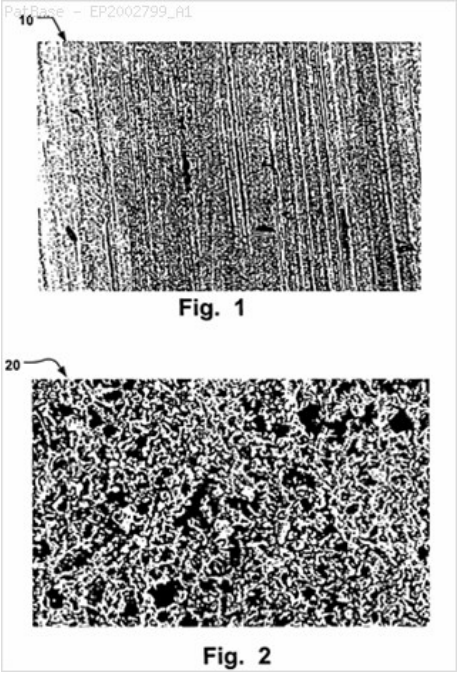
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Title: CERAMIC MEDICAL IMPLANT HAVING AN OSSECONDUCTIVE COATING

Abstract: Source: EP2002799A1 A ceramic medical implant devised for permanent anchorage in bone tissue is disclosed. The ceramic medical implant has a coating on an outer porous surface thereon, wherein the outer porous surface has a surface roughness. The coating comprises calcium phosphate, applied with a coating thickness on the outer porous surface of the ceramic medical implant. A ratio of the coating thickness to the surface roughness is in a range of 0,5 percent to 30 percent, whereby osseointegration of the ceramic medical implant is promoted upon implantation of the ceramic medical implant. Moreover a method of producing such a ceramic medical implant is disclosed. According to an embodiment the ceramic medical implant is a ceramic dental implant.

Classifications:

International (IPC 8-9): A61C8/00 A61L27/32 (Advanced/Invention);
A61C8/00 A61L27/00 (Core/Invention)
CPC: A61C8/0006 A61C8/0012 A61C8/0013 A61F2250/0025 A61F2310/00796
A61L27/32 A61L27/56 A61L27/58
European: A61C8/00C1A A61C8/00E A61C8/00E1 A61L27/32 A61L27/56 A61L27/58
K61F250/00N9 K61F310/00L6E



Family:

Publication number	Publication date	Application number	Application date
EP2002799 A1	20081217	EP20070011683	20070614

Priority:

EP20070011683 20070614

Probable Assignee: NOBEL BIOCARE SERVICES AG

Assignee(s): (std): NOBEL BIOCARE SERVICES AG

Inventor(s): (std): HALL JAN ; JOERNEUS LARS ; WIGREN STINA

Agent(s): BYSTROEM KURT LINUS

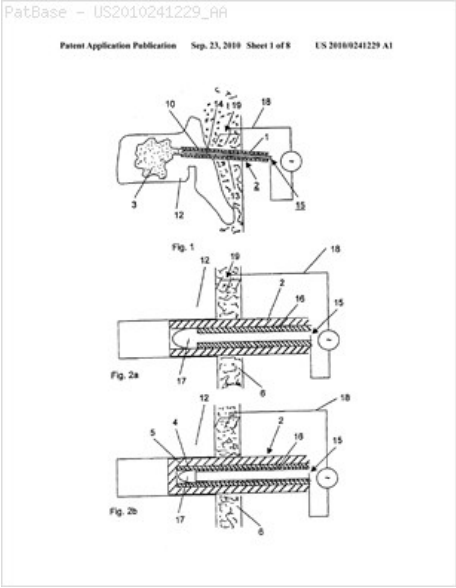
Designated states: AL AT BA BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL PL PT RO RS SE SI SK TR

Title: MEDICAL **IMPLANT**

Abstract: Source: US2010241229A Medical **implant** which at least partially comprises a biocompatible, electrically conductive polymer **with** electrical resistivity p, having the property of being able to be heated and softened by a flow of current through the polymer.

Classifications:

International (IPC 8-9): A61B17/04 A61B17/064 A61B17/12 A61B17/122 A61B17/68 A61B17/70 A61B17/72 A61B17/74 A61B17/86 A61B17/88 A61C8/00 A61F2/28 A61F2/32 A61F2/34 A61F2/36 A61L24/00 A61L24/04 A61L27/14 A61L27/50 H01B1/12 (Advanced/Invention); A61B17/70 A61B17/86 A61L24/04 A61L27/14 (Advanced/Non-invention); A61B17/04 A61B17/064 A61B17/12 A61B17/68 A61B17/70 A61B17/88 A61C8/00 A61F2/28 A61F2/32 A61F2/36 A61L24/00 A61L27/00 H01B1/12 (Core/Invention)
International (IPC 1-7): A61B17/04
CPC: A61B17/68 A61B17/00491 A61B17/0401 A61B17/0487 A61B17/064 A61B17/122 A61B17/1285 A61B17/7059 A61B17/7098 A61B17/7233 A61B17/742 A61B17/864 A61B17/8802 A61B2017/00004 A61B2017/005 A61B2017/00831 A61B2017/00867 A61B2017/0414 A61B2017/0488 A61B2017/8655 A61C8/0012 A61F2/32 A61F2002/30052 A61F2002/30065 A61F2002/30067 A61F2002/469 A61F2210/0071 A61F2250/0043
European: A61B17/00L A61B17/04A A61B17/04K A61B17/122 A61B17/68 A61B17/70V2 A61B17/72E A61C8/00E A61F2/32 K61B17/00A K61B17/00L4 K61B17/00S K61B17/00S12 K61B17/04A8 K61B17/04K5 K61B17/064 K61B17/128E K61B17/70K K61B17/74D K61B17/86D K61B17/86L K61B17/88A K61F2/30A1N25 K61F2/30A1W2 K61F2/30A1W2L K61F2/46Z3 K61F210/00H K61F250/00N24
US: 252/500 252/500S 623/16.11 623/16.110P



Family:

Publication number	Publication date	Application number	Application date
AU2007356033 AA	20090108	AU20070356033	20070703
AU2007356033 BB	20140529	AU20070356033	20070703
BRPI0721748 A2	20130226	BR2007PI21748	20070703
CA2692407 AA	20091231	CA20072692407	20070703
CA2692407 C	20150929	CA20072692407	20070703
CN102014762 A	20110413	CN200780053596	20070703
CN102014762 B	20140611	CN200780053596	20070703
CO6270194 A2	20110420	CO20090149333	20091230
EP2162072 A1	20100317	EP20070720221	20070703
EP2162072 B1	20130619	EP20070720221	20070703
EP2630920 A1	20130828	EP20130002300	20070703
EP2630920 B1	20151125	EP20130002300	20070703
IN08076DN2009 A	20100723	IN2009DN08076	20091210
KR20100068363 A	20100623	KR20107002521	20070703
NZ582100 A	20130125	NZ20070582100	20070703
US2010241229 AA	20100923	US20070664297	20070703
WO09003294 A1	20090108	WO2007CH00324	20070703

Priority:
WO2007CH00324 20070703 NZ20070582100 20070703 CO20090149333 20091230
EP20070720221 20070703 EP20130002300 20070703

Probable Assignee: SYNERGY BIOSURGICAL AG

Assignee(s): (std): BAEHRE WOLF FRIEDRICH ; RUFFIEUX KURT ; SINERGY BIOSURGICAL AG ; SYNERGY BIOSURGICAL AG

Inventor(s): (std): BAEHRE WOLF FRIEDRICH ; BAEHRE WOLF FRIEDRICK ; BAHRE WOLF FRIEDRICH ; KURT RUFFIEUX ; RUFFIEUX KURT ; RUFFIEX KURT ; WOLF FRIEDRICH BAEHRE

Inventor(s): WOLF FRIEDRICH BAHRE ; WOLF FRIEDRICK BAEHRE ; KURT RUFFIEX

Agent(s): PHILLIPS ORMONDE FITZPATRICK; MARKS AND CLERK; JESUS MARIA MENDEZ BERMUDEZ; LUSUARDI WERTHER; SCHWEGMAN LUNDBERG AND WOESSNER SYNTHES

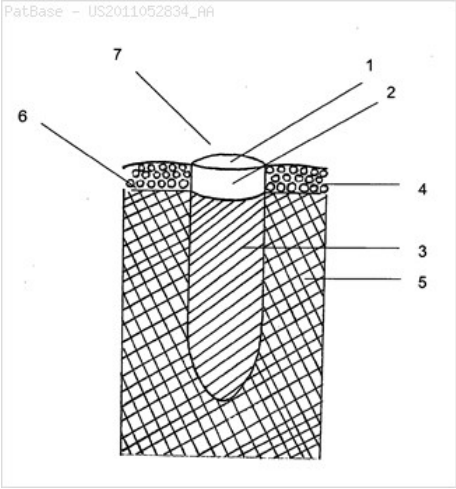
Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD MG MK ML MN MR MT MW MX MY MZ NA NE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

Title: **METHOD** AND COMPOSITIONS **FOR** CREATING AN ATOMIC COMPOSITE OF **CERAMICS COATED WITH** TITANIUM MAKING USE OF **COATING** METHODOLOGY

Abstract: Source: US2011052834A The invention relates to a **method for** the **coating** of a surface of a **ceramic** basic body **with** a titanium compound, comprising the steps of (i) providing a preformed **ceramic** material; (ii) at least one step of surface activation of said **ceramic** material using a plasma **for** plasma-chemical surface preparation wherein the plasma comprises high-energy ions; (iii) at least one step of applying a titanium compound bonding layer to said **ceramic** material by plasma-supported **coating** wherein the plasma-supported **coating** is performed in pulsed and/or non-pulsed fashion; (iv) at least one step of applying a functional titanium compound layer by pulsed plasma-supported **coating**. The invention also relates to novel compositions as well as uses of the novel compositions.

Classifications:

International (IPC 8-9): A61C8/00 A61L27/04 A61L27/10 A61L27/30 C08J7/06 C23C16/02 C23C16/06 C23C16/50 F42B10/00 F42B12/74 F42B12/80 (Advanced/Invention); A61K6/083 B05D3/00 (Advanced/Non-invention); A61C8/00 A61L27/00 (Core/Invention)
CPC: A61C8/0013 A61L27/047 A61L27/10 A61L27/306 A61K6/0017 A61K6/0215 A61K6/0235 A61K6/024 A61K6/0245 A61K6/025 A61K6/0255 A61K6/04 C04B41/009 C04B41/52 C04B41/90 C04B2111/00836
European: A61C8/00E1 A61K6/00A5 A61K6/02A10 A61K6/02A2 A61K6/02A6 A61K6/02A7 A61K6/02A8 A61K6/02A9 A61K6/04 A61L27/04R A61L27/10 A61L27/30R C04B41/00V C04B41/52 C04B41/90 M04B111/00T54
US: 102/514 102/517 427/2.26 427/249.19 427/250 427/255.36 427/509 427/535 427/535P 427/561 86/51



Family:

Publication number	Publication date	Application number	Application date
AT506972 E	20110515	AT20080151711T	20080220
DE602008006492 D1	20110609	DE200860006492T	20080220
EP2018878 A1	20090128	EP20070014516	20070725
EP2018879 A2	20090128	EP20080151711	20080220
EP2018879 A3	20100331	EP20080151711	20080220
EP2018879 B1	20110427	EP20080151711	20080220
ES2365277 T3	20110927	ES20080151711T	20080220
US2011052834 AA	20110303	US20090918791	20090219
US8507049 BB	20130813	US20090918791	20090219
WO09103775 A2	20090827	WO2009EP51999	20090219
WO09103775 A3	20100429	WO2009EP51999	20090219

Priority:
EP20070014516 20070725 EP20080151711 20080220 WO2009EP51999 20090219

Probable Assignee: CERAMOSS GMBH

Assignee(s): (std): CERAMOSS GMBH ; LENZ SORIN ; LENZ SORIN DR

Inventor(s): (std): LENZ SORIN ; LENZ SORIN DR ; RUEBIG GUENTER

Agent(s): VOSSIUS AND PARTNER; STRYCH WERNER MAXIMILIAN JOSEF; KOLISCH HARTWELL PC; KILGER CHRISTIAN

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

Title: OPEN-PORE BIOCOMPATIBLE SURFACE COATING FOR AN IMPLANT, METHOD FOR PRODUCING THE SAME, AND USE THEREOF

Abstract: The invention relates to an open-pore biocompatible surface layer for an implant, disposed on a raw surface of the implant, and an implant made of an open-pore biocompatible surface layer, wherein pores of the surface layer are filled at least partially, preferably at least 80 percent, and particularly preferably completely, with a bioactive, preferably resorbable filler material. The invention further relates to a method for producing such a surface layer and such an implant, and further, an implant having such a surface layer, and the use of such a surface layer according to the invention for an implant, or as an implant.

Classifications:

International (IPC 8-9): A61C8/00 A61F2/28 A61F2/30 A61F2/32 A61F2/38 A61F2/40 A61F2/42 A61F2/44 A61K6/00 A61L27/28 A61L27/30 A61L27/32 A61L27/56 (Advanced/Invention); A61K6/00 A61L27/00 (Core/Invention)
CPC: A61C8/0012 A61F2/30767 A61F2/3094 A61F2/34 A61F2/36 A61F2/38 A61F2/4225 A61F2/4241 A61F2/442 A61F2002/30011 A61F2002/30064 A61F2002/30067 A61F2002/30838 A61F2002/3084 A61F2002/30911 A61F2002/3092 A61F2002/30929 A61F2002/3093 A61F2002/30968 A61F2002/30971 A61F2002/3098 A61F2002/30981 A61F2002/30983 A61F2250/0023 A61F2310/00395 A61F2310/00401 A61F2310/00407 A61F2310/00413 A61F2310/00425 A61F2310/00437 A61F2310/00485 A61F2310/00544 A61F2310/00562 A61F2310/00592 A61F2310/00604 A61F2310/0061 A61F2310/00634 A61F2310/00796 A61F2310/00874 A61F2310/0097 A61F2310/00982 A61F2310/00994 A61L27/306 A61L27/34 A61L27/54 A61L27/56 A61L27/58 A61L2300/414
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Family:

Publication number	Publication date	Application number	Application date
DE102008044951 A1	20090806	DE200810044951	20080829
EP2237808 A2	20101013	EP20090707895	20090122
WO09097968 A2	20090813	WO2009EP00386	20090122
WO09097968 A3	20100429	WO2009EP00386	20090122

Priority:

DE200810007562 20080205 DE200810044951 20080829 WO2009EP00386 20090122

Probable Assignee: SMITH AND NEPHEW ORTHOPAEDICS AG

Assignee(s): (std): KOENIG INGE ; MARTIN FRIEDRICH ; SCHMOTZER HANS ; SMITH AND NEPHEW ORTHOPAEDICS AG

Assignee(s): FRIEDRICH MARTIN

Inventor(s): (std): KOENIG SUSANNE ; SCHMOTZER HANS

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

Title: ORTHODONTIC OR DENTAL ELEMENTS

Abstract: Source: US2010330522A The invention relates to orthodontic or dental appliances **with** a substrate, at least certain regions of which are provided **with** a **coating** containing titanium dioxide and/or titanium nitride, as well as a **coating** formulation and a **method** of applying the **coating** formulation to the orthodontic or dental appliances.

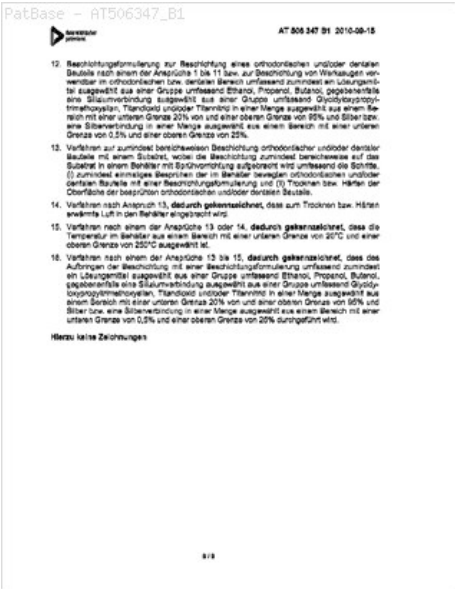
Classifications:

International (IPC 8-9): A61C13/00 A61C13/003 A61C13/007 A61C13/08 A61C19/00 A61C5/08 A61C7/00 A61C7/12 A61C7/14 A61C7/18 A61C7/20 A61C8/00 A61K6/027 B05D3/00 C09K3/00 (Advanced/Invention); A61C13/00 A61C7/00 A61C8/00 A61K6/02 (Core/Invention)

CPC: A61C7/00 A61C8/0012 A61C13/0003 A61K6/0067 A61K6/0235

European: A61C13/00C A61C7/00 A61C8/00E A61K6/00E5 A61K6/02A6

US: 106/35 106/35S 427/2.29 427/2.290S 433/167 433/167S 433/17 433/17S 433/2 433/215 433/215S 433/218 433/218S 433/23 433/23S 433/2S 433/8 433/8P



Family:

Publication number	Publication date	Application number	Application date
AT506347 A1	20090815	AT20080000140	20080130
AT506347 B1	20100915	AT20080000140	20080130
US2010330522 AA	20101230	US20090735577	20090130
WO09094684 A2	20090806	WO2009AT00034	20090130
WO09094684 A3	20091112	WO2009AT00034	20090130

Priority:
AT20080000140 20080130 WO2009AT00034 20090130

Probable Assignee: PBD PATENT AND BUSINESS DEVELOPMENT AG

Assignee(s): (std): HIRSCH MARKUS ; PBD PATENT AND BUSINESS DEV AG

Assignee(s): PBD PATENT AND BUSINESS DEVELOPMENT AG

Inventor(s): (std): HIRSCH MARKUS ; HIRSCH MARKUS JOHANNES

Agent(s): COLLARD AND ROE PC; ANWAELTE BURGER UND PARTNER RECHTSANWALT GMBH

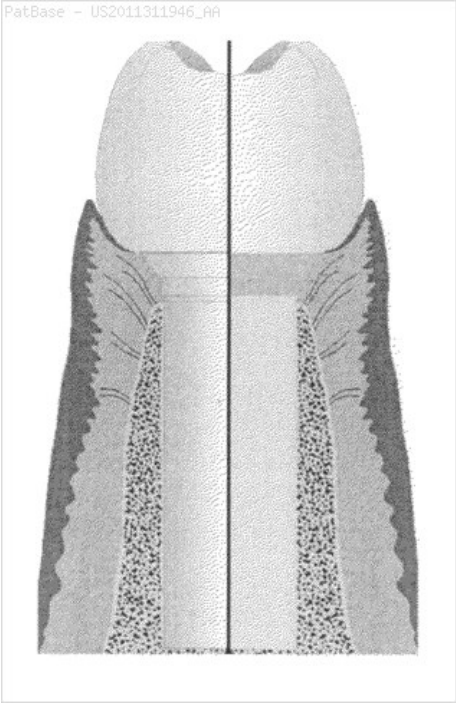
Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA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

Title: MUTALLIC DENTAL **IMPLANTS** AND PROSPHETIC APPLIANCE HAVING COLORED **CERAMIC** SURFACES

Abstract: Source: US2011311946A The present invention provides a dental, oral or maxillofacial **implant, implant** component and any other prosthetic appliance having an oxide **ceramic coating** on a metal surface. The oxide **ceramic coating** is preferably colored similar to the color of the surrounding tissues (e.g. similar to the color of bone, teeth or of mucosa). The oxide **ceramic coating** may comprise any oxidizable metal. Preferably, the oxide **ceramic coating** comprises zirconium or a zirconium alloy. The oxide **coating** is of a thickness that exhibits the desired color. Preferably the oxide **ceramic coating** is at least 20, 30, 50, 75, 100, 120 or more micro m thick. The prosthetic **implant** appliances of the invention may be an abutment, ball attachment, bar, telescopic component or other **implant** components (e.g. magnetic attachments), or the **implant** itself trespassing the mucosa. The prosthetic appliances may be used **for implant** reconstructions. Furthermore, they may be used **for** making tooth-borne reconstructions like esthetic root posts, crowns/bridges and removable reconstructions. They may also be used **for** extraoral applications like **implant**-retained prostheses or hearing aids, or other maxillofacial applications. The dental, oral or maxillofacial **implants**, abutments or the prosthetic appliances combine the excellent esthetics and good biocompatibility of **ceramics with** the advantageous mechanical properties of metals. The invention also provides a **method** of making dental, oral or maxillofacial **implant, implant** component or a prosthetic device by oxidizing the surface of the metal., as well as the products made thereby.

Classifications:

International (IPC 8-9): A61C8/00 (Advanced/Invention);
A61C8/00 (Core/Invention)
CPC: A61C8/0012 A61C13/0003
European: A61C8/00E K61C13/00C
US: 433/173 433/173P 433/201.1 433/201.100S



Family:

Publication number	Publication date	Application number	Application date
US2011311946 AA	20111222	US20090736019	20090305
WO09111041 A1	20090911	WO2009US01408	20090305

Priority:

US20080068324P 20080305 WO2009US01408 20090305 US20090736019 20090305

Probable Assignee: UNIV NEW YORK

Assignee(s): (std): RICCI JOHN ; SAILER IRENA ; UNIV NEW YORK

Assignee(s): NEW YORK UNIVERSITY

Inventor(s): (std): RICCI JOHN ; SAILER IRENA

Agent(s): JACKSON DAVID A

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

Title: Ceramic implant

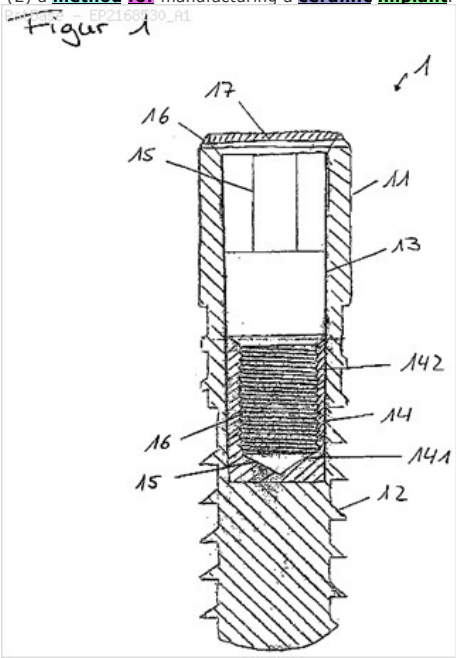
Abstract: The implant (1) has an implant body (11) with a blind hole (13) for receiving a screw for fixing an abutment. A material layer (14) made of metal is partially arranged inside the blind hole by sintering process. The material layer is chemically connected with the implant body, and is provided with an internal thread (141). A sleeve is arranged within the blind hole, and the material layer is provided to fasten the sleeve to the blind hole in a form fit manner. The implant body has a coating (17) made of metal or plastic at a side facing the abutment. Independent claims are also included for the following: (1) a ceramic screw comprising a screw head (2) a method for manufacturing a ceramic implant.

Classifications:

International (IPC 8-9): A61B17/58 A61C8/00 C04B35/64 (Advanced/Invention); A61B17/58 A61C8/00 C04B35/64 (Core/Invention)

CPC: A61C8/0012 A61C8/0013 A61C8/005 A61C8/0063 A61C8/0068

European: A61C8/00E A61C8/00E1 A61C8/00G1 A61C8/00G1L A61C8/00G1S K61C8/00G1S



Family:

Publication number	Publication date	Application number	Application date
DE102008055645 A1	20100408	DE200810055645	20081103
EP2168530 A1	20100331	EP20090012145	20090924
EP2168530 B1	20120606	EP20090012145	20090924

Priority:

DE200810049388 20080927 DE200810055645 20081103

Probable Assignee: JELITTE GERD

Assignee(s): (std): JELITTE GERD ; KOETTER JELITTE KERSTIN

Inventor(s): (std): JELITTE GERD ; KOETTER JELITTE KERSTIN

Agent(s): KOETTER ULRICH

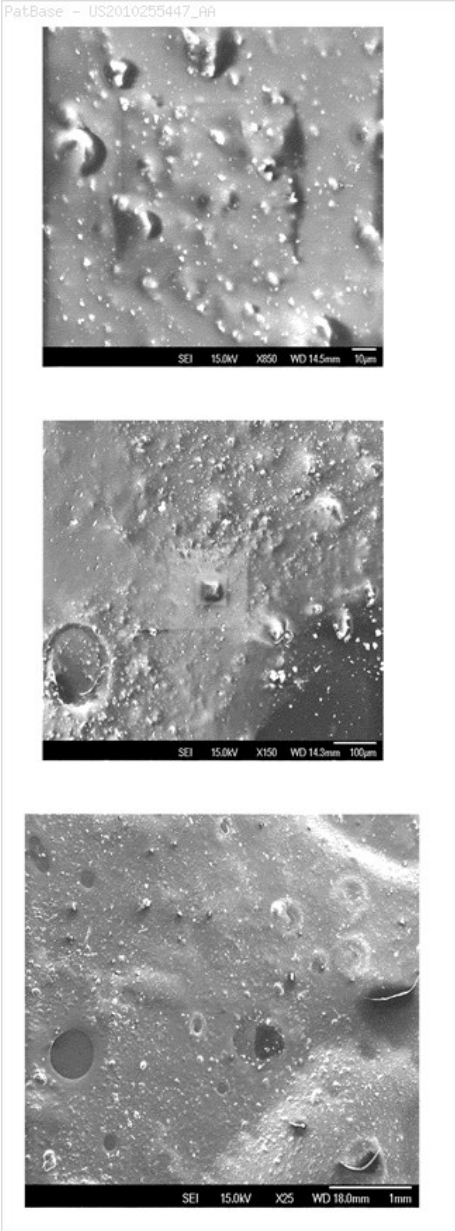
Designated states: AL AT BA BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Title: ADVANCED BIO-COMPATIBLE POLYMER SURFACE COATINGS FOR IMPLANTS AND TISSUE ENGINEERING SCAFFOLDS

Abstract: Source: US2010255447A Disclosed herein are methodologies and compositions for coating materials, which can be used in a variety of biological applications.

Classifications:

International (IPC 8-9): A01N43/20 A61B19/02 A61C13/00 A61C13/02 A61C3/00 A61C7/20 A61C8/00 A61F2/02 A61F2/06 A61F2/28 A61L2/08 B05D3/00 B32B5/16 C03C3/00 C04B35/00 C09D1/00 C09D189/00 C09K3/00 C12N5/00 C23C14/34 C23F1/00 (Advanced/Invention)
CPC: B82Y30/00 C09D189/06 A61C7/20 A61C8/0012 A61C8/0015 A61C8/005 A61L27/04 A61L2420/02 C23C4/00 C23C4/105 Y10T428/25 A61F2/30767 A61C8/0013 A61F2/3094 A61F2002/3084 A61F2310/00023 A61F2310/00634 A61F2310/00796 A61L27/306 A61L29/106 A61L31/088 C08K3/04 C08K3/08 C08K3/22 C08K9/02 C08L2203/02 C09D5/14 C09D7/1208 C09D7/1266 C09D189/00 C12N5/0654 C12N2533/18 C23C14/083 C23C14/28 C23C26/00 C23C30/00
European: A61C7/20 A61C8/00E A61C8/00E1 A61C8/00E1C A61C8/00G1 A61F2/30L A61L27/04 A61L27/30R A61L29/10R A61L31/08B6 B82Y30/00 C09D189/00 C09D189/06 C09D5/14 C09D7/12D C09D7/12N1 C12N5/06B13B C23C14/08H C23C14/28 C23C26/00 C23C30/00 C23C4/00 C23C4/10B K61F2/30L2N K61F2/30M K61F310/00A2E K61F310/00L6A40 K61F310/00L6E K61L420/02 M08K3/04 M08K3/08 M08K3/22 M08K9/02 M08L203/02 M12N533/18
US: 106/124.4 106/124.400S 106/286.1 106/286.100S 106/286.4 106/286.400S 106/286.8 106/286.800S 204/192.15 204/192.150S 206/438 206/438S 216/94 216/94S 422/22 422/22S 427/2.24 427/2.240S 427/2.25 427/2.250S 427/2.26 427/2.260S 427/2.27 427/2.270S 427/2.29 427/2.290S 428/323 428/323S 433/171 433/171S 433/173 433/173S 433/18 433/18P 433/200.1 433/200.100S 433/201.1 433/201.100P 433/201.100S 435/402 435/402S 501/1 501/11 501/11S 501/1S 514/475 514/475S 523/105 523/105S 623/23.6 623/23.600S 623/23.76 623/23.760S



Family:

Publication number	Publication date	Application number	Application date
US2010255447 AA	20101007	US20090604964	20091023
US2011183281 AA	20110728	US20100894866	20100930
WO10117389 A1	20101014	WO2009US62183	20091027
WO11049719 A2	20110428	WO2010US50666	20100929
WO11049719 A3	20120412	WO2010US50666	20100929

Priority:
US20090212110P 20090407 US20090604964 20091023 WO2009US62183 20091027
US20100894866 20100930

Probable Assignee: BOARD OF TRUSTEES OF UNIV OF ARKANSAS

Assignee(s): (std): JENSEN PEDER ; KANNARPADY GANESH ; BIRIS ALEXANDRU S ; UNIV ARKANSAS

Assignee(s): BOARD OF TRUSTEES OF THE UNIVERSITY OF ARKANSAS ; BOARD OF TRUSTEES OF UNIV OF ARKANSAS ; OF ARKANSAS UNIV ; UNIVERSITY OF ARKANSAS

Inventor(s): (std): BIRIS ALEXANDRU S ; JENSEN PEDER ; KANNARPADY GANESH

Agent(s): FOLEY AND LARDNER LLP,SUITE 500; FOLEY AND LARDNER LLP SUITE 500; PEET RICHARD; PEET RICHARD 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

Title: One-part **implant**

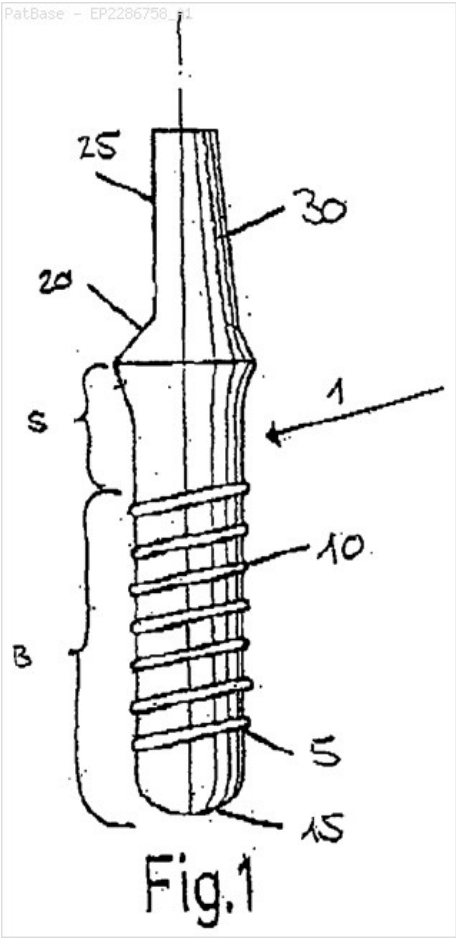
Abstract: Source: EP2286758A1 The present invention relates to a **method for** the preparation of a one-part **implant** (1) **for** attachment of artificial teeth comprising an anchoring part (5) and a mounting part (20), whereby the anchoring part (5) and the mounting part (20) are configured in one piece, and to the one-part **implant** (1) thereby obtained. The anchoring part (5) of the one-part **implant** (1) has a bone contact surface B and a soft tissue contact surface S. The soft tissue contact surface S is at least partially hydroxylated, which results in an improved soft tissue integration. The present invention further relates to a one-part **implant** (1), the soft tissue contact surface S of which is at least partially silanated, and to a **method for** the preparation thereof.

Classifications:

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

CPC: A61C8/0012 A61C8/0013 A61C8/0015 A61C8/0075

European: A61C8/00E A61C8/00E1C A61C8/00G2 K61C8/00E1



Family:

Publication number	Publication date	Application number	Application date
EP2286758 A1	20110223	EP20100010969	20060228

Priority:

EP20100010969 20060228 EP20060004060 20060228

Probable Assignee: STRAUMANN HOLDING AG

Assignee(s): (std): STRAUMANN HOLDING AG

Inventor(s): (std): BECKER JUERGEN PROF DR ; DARD MICHEL ; SCHWARZ DR FRANK ; WIELAND MARCO

Inventor(s): BECKER JUERGEN PROF

Agent(s): SCHAAD BALASS MENZL AND PARTNER AG

Designated states: AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

Title: DENTAL **IMPLANT** ABUTMENTS AND **METHODS** OF USE

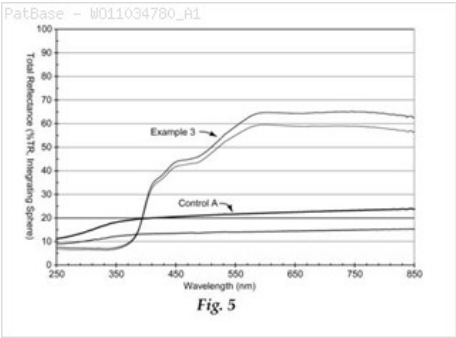
Abstract: The present invention concerns **methods** of fabricating a permanent restoration **for** a dental **implant** and dental **implant** abutment articles.

Classifications:

International (IPC 8-9): A61C13/00 A61C8/00 (Advanced/Invention)

CPC: A61C8/005 A61C13/0004 A61C9/0046

European: A61C13/00C1 A61C8/00G1 K61C9/00E



Family:

Publication number	Publication date	Application number	Application date
WO11034780 A1	20110324	WO2010US48358	20100910

Priority:
US20090242546P 20090915

Probable Assignee: 3M INNOVATIVE PROPERTIES CO

Assignee(s): (std): 3M INNOVATIVE PROPERTIES CO ; GOODWIN WILLIAM A ; JOHNSON RYAN E ; WANLESS HOWARD P III ; WENZEL KEVIN W

Assignee(s): WANLESS HOWARD P ; 3M INNOVATIVE PROPERTIES COMPANY

Inventor(s): (std): GOODWIN WILLIAM A ; JOHNSON RYAN E ; WANLESS HOWARD P III ; WENZEL KEVIN W

Inventor(s): WANLESS HOWARD P

Agent(s): FISCHER CAROLYN A 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

Title: DENTAL **IMPLANT** ARTICLES AND **METHODS**

Abstract: Source: US2012202170A Presently described are dental **implant** articles, including kits, **methods** of making dental **implant** articles and **methods** of use. The dental **implant** articles (200) described herein comprise preformed dental **implant** abutment (210) integrated therein. The preformed dental **implant** abutment comprises a subgingival **implant** anchor-receiving end and an opposing end wherein the opposing end is permanently bonded within a sufficiently malleable dental material, which preferably comprises tooth-shaped gingival exterior surfaces (201).

Classifications:

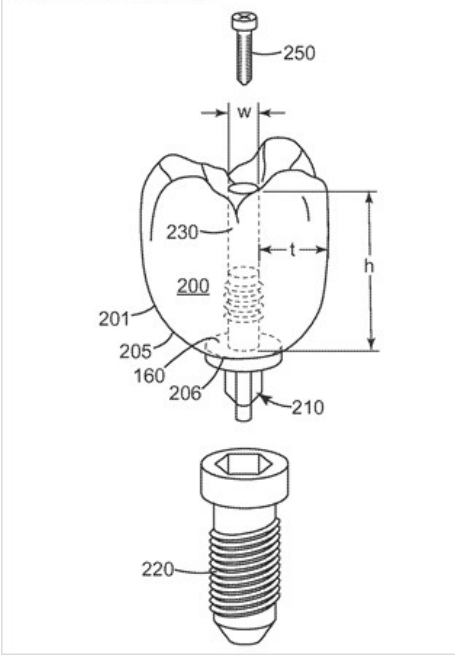
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CPC: A61C8/005 A61C8/0051 A61C8/0066 A61C8/0068 A61C13/0022 A61C8/008 A61C13/081

European: A61C13/00C5 A61C13/08B A61C8/00G1 A61C8/00G1A A61C8/00G1P A61C8/00H K61C8/00G1S

US: 264/17 264/17S 427/2.29 433/173 433/173P 433/201.1

PatBase - US2012202170_RR



Family:

Publication number	Publication date	Application number	Application date
EP2493414 A2	20120905	EP20100771856	20101021
EP2493415 A2	20120905	EP20100771855	20101021
KR20120099696 A	20120911	KR20127013379	20101021
US2012202170 AA	20120809	US20100394844	20101021
US2012251979 AA	20121004	US20100395711	20101021
WO11056450 A2	20110512	WO2010US53543	20101021
WO11056450 A3	20110721	WO2010US53543	20101021
WO11056452 A2	20110512	WO2010US53548	20101021
WO11056452 A3	20111013	WO2010US53548	20101021

Priority:

US20090255638P 20091028 US20100372706P 20100811 WO2010US53543 20101021
US20100394844 20101021 WO2010US53548 20101021 US20100395711 20101021

Probable Assignee: 3M INNOVATIVE PROPERTIES CO

Assignee(s): (std): 3M INNOVATIVE PROPERTIES CO ; DAWSON ROGER K ; JOHNSON RYAN E ; KARIM NAIMUL

Assignee(s): 3M INNOVATIVE PROPERTIES COMPANY

Inventor(s): (std): DAWSON ROGER K ; JOHNSON RYAN E ; KARIM NAIMUL

Agent(s): VOSSIUS AND PARTNER; FISCHER CAROLYN A ET AL

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

Title: **IMPLANT FOR** IMPLANTATION IN A BONE, IN PARTICULAR JAW BONE AND **METHOD FOR** PRODUCTION OF SAME

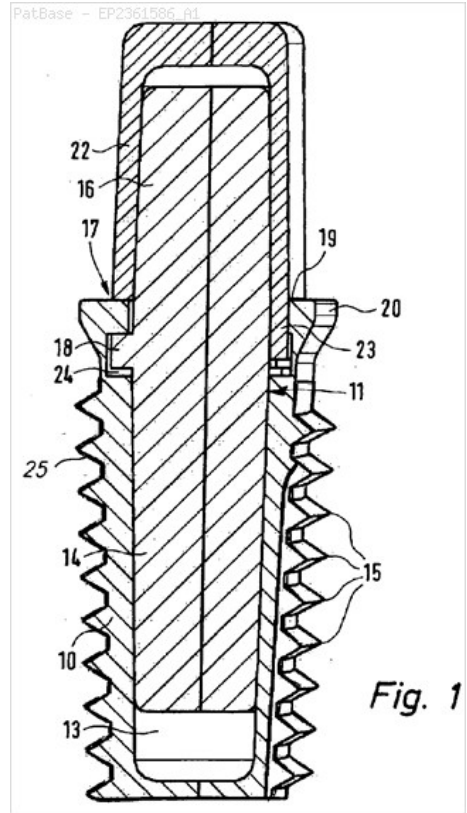
Abstract: The **implant** has an **implant** body (10) inserted into human jawbone, and an **implant** support (11) inserted into the body, where the **implant** is made from **ceramic** material e.g. zirconium or aluminum **ceramics**, or metal e.g. titanium or stainless steel. A coupling unit (22) has a dental prosthesis i.e. bridge pier, and arranged on the support. The body has a conically-inwardly tapered blind hole (13) to accommodate a retaining section of the support. An area engaged into the jawbone is provided with a **coating** (25) e.g. plasma **coating**, made from **ceramic** material, where the **coating** has a rough surface. The **coating** is applied on the area of the **implant** through plasma spraying of zirconium oxide-spraying powder and binding medium e.g. silicon dioxide. An independent claim is also included for a **method for** manufacturing an **implant**.

Classifications:

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

CPC: A61C8/0012

European: A61C8/00E



Family:

Publication number	Publication date	Application number	Application date
EP2361586 A1	20110831	EP20100001695	20100219

Priority:

EP20100001695 20100219

Probable Assignee: WALTHER GERD AXEL DR

Assignee(s): (std): WALTHER GERD AXEL DR

Inventor(s): (std): WALTHER GERD AXEL DR

Agent(s): KOCHER MARK WERNER

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

Title: NATURAL TOOTH REPLACEMENT (NTR): AN ALTERNATIVE TO TOOTH ROOT CANAL (RCT) THERAPY AND IMMEDIATE ROOT-FORM IMPLANT PLACEMENT INTO EXTRACTION SOCKET

Abstract: Source: US2011262882A The present invention relates to the method of replacing an infected, broken, decayed tooth that would otherwise require extraction or root canal therapy with a duplicate ceramic tooth implant uncoated or coated with a series of treatments and manufactured for compatibility by obtaining CAT-SCAN images of the tooth prior to extraction or by utilizing typical 'lost wax' duplicating technology. The invention give the dentist an alternative to performing a root canal procedure (endodontic procedure) on an infected tooth that presents the problematic and in most cases the impossible task of eliminating all the bacteria from the tooth interior and adjacent bone. The bacteriais problematic in that it causes adjacent implants to fail and thus it is presumed to cause other distal chronic inflammatory diseases if these "foci of infections" are not removed.

Classifications:
International (IPC 8-9): A61C8/00 (Advanced/Invention)
CPC: A61C8/0013 A61C8/0018 A61C8/0036
European: A61C8/00E1 A61C8/00F A61C8/00F9
US: 433/173 433/173P



Family:

Publication number	Publication date	Application number	Application date
US2011262882 AA	20111027	US20110093688	20110425

Priority:
US20100343250P 20100426 US20110093688 20110425

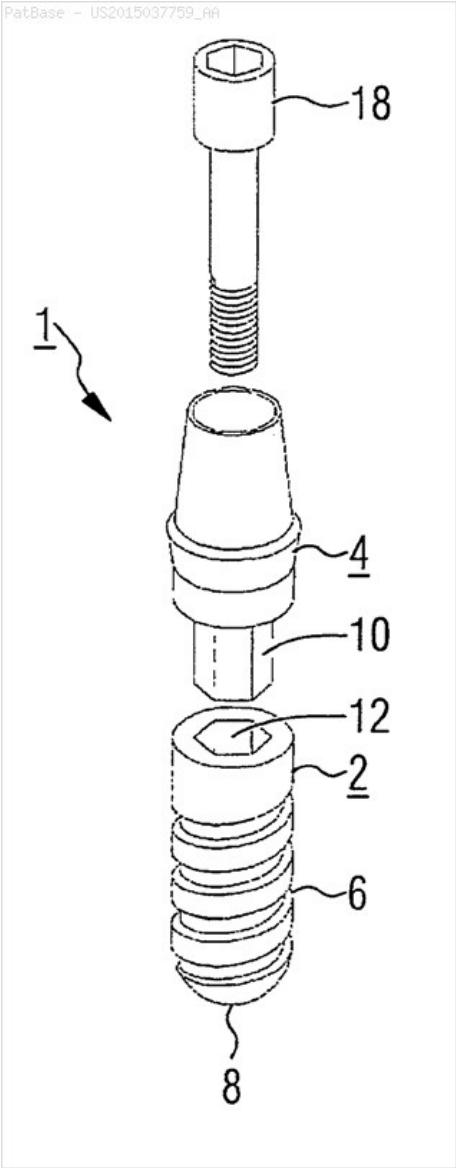
Probable Assignee: NORDQUIST WILLIAM
Assignee(s): (std): NORDQUIST WILLIAM
Inventor(s): (std): NORDQUIST WILLIAM

Title: DENTAL IMPLANT SYSTEM AND METHOD FOR PRODUCING A DENTAL IMPLANT SYSTEM

Abstract: Source: US2015037759A A dental implant system (1, 1', 1?) comprising a first implant part (2, 2', 2?), provided for introduction into a jawbone, and comprising a second implant part (4) associated therewith, provided for attaching a tooth replacement part, the implant parts (2, 2', 2?, 4) being mechanically interconnectable via a connection pin (10) which is integrally formed on one of the implant parts (2, 2', 2?, 4) and which is insertable into a receiving duct (12) provided in the other implant part (2, 2', 2?, 4), is to have a particularly high stability and long duration of use, even when ceramic materials, or base materials comparable therewith in terms of the basic material properties thereof, are used for the implant parts (2, 4). For this purpose, according to the invention, in a contact region to the receiving duct (12) the connection pin (10) is provided, in a material fit, with a spacer (22) formed of a material softer than the material of the connection pin (10), and the connection pin (10) has a porous surface preferably having a porosity of at least 0.1, in the surface region thereof which is provided with the coating (26), to form a material fit connection to the coating (26).

Classifications:

International (IPC 8-9): A61C13/00 A61C8/00 (Advanced/Invention)
CPC: A61C8/0013 A61C13/0007 A61C8/0012 A61C8/0022 A61C8/005 A61C8/006 A61C8/0068 A61C8/0069 A61C8/0086 A61C13/0018 Y10T29/49567
European: A61C8/00E A61C8/00G1 A61C8/00G1H A61C8/00G1S A61C8/00G1T K61C8/00F2 K61C8/00Q
US: 29/896.1 433/201.1



Family:

Publication number	Publication date	Application number	Application date
CA2817860 AA	20130514	CA20112817860	20111115
CN103327928 A	20130925	CN201180062921	20111115
DE102010051176 A1	20120516	DE201010051176	20101115
EP2640306 A1	20130925	EP20110807636	20111115
IN01484KN2013 A	20131011	IN2013KN01484	20130514
US2015037759 AA	20150205	US20110885643	20111115
WO12065718 A1	20120524	WO2011EP05748	20111115

Priority:

DE201010051176 20101115 WO2011EP05748 20111115

Probable Assignee: BRODBECK

Assignee(s): (std): BRODBECK URS ; SCHLEE MARKUS ; ZIPPRICH HOLGER

Assignee(s): ZIPPRICH ; URS BRODBECK ; HOLGER ZIPPRICH ; MARKUS SCHLEE ; SCHLEE ; BRODBECK

Inventor(s): (std): BRODBECK URS ; SCHLEE MARKUS ; ZIPPRICH HOLGER

Inventor(s): URS BRODBECK ; HOLGER ZIPPRICH ; MARKUS SCHLEE

Agent(s): MARKS AND CLERK; CORNELIUS THOMAS; TERGAU AND WALKENHORST

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

Title: DENTAL IMPLANT

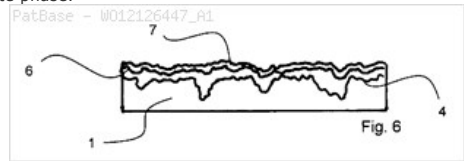
Abstract: The invention relates to a dental implant (1) which is made of a ceramic material, in particular zirconium dioxide, the outer surface thereof being designed to anchor into the jaw bone, and at least the sub-areas of the outer surface (4) of the implant being covered with a glass matrix and structured and functionalised by means of an abrasive and/or subtractive method. According to the conditioning method, a thin layer of a silicate glass is applied to the sub-area of the surface of the implant which is to be conditioned and is fixed by ceramic firing, and the thus produced layer is subsequently abrasively and/or subtractively treated. In order to carry out said method, a silicate glass ceramic solder which can also contain finely dispersed ceramic particles is used. The subsequent treatment takes place by sandblasting, acid etching etc or by a combination thereof. The thus produced layer (6) can then be functionalised for example, by means of a plasma spray method, using a thin titanium layer (7) which can also be subsequently provided with a calcium phosphate phase.

Classifications:

International (IPC 8-9): A61B17/58 A61C8/00 A61F2/28 (Advanced/Invention)

CPC: A61C8/0013

European: A61C8/00E1



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