

Search history

Search FT=(prosthesis* and dental* and screw* and clamp* and ring* and piece*) (Results 558)

1:

Search (1) AND IPC=(A61) (Results 541)

2:

Search (FN=(69735004 OR 53090094 OR 29584174 OR 57354250 OR 47086371 OR 61543439 OR 64285449 OR 45944501 OR 55706590 OR

3: 59022683 OR 8468804 OR 48531895 OR 41677930)) (Results 13)

1) Family number: 69735004 (WO19115846A1)

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Title: DUAL FIXATION SYSTEM FOR FIXING A PROSTHESIS TO A DENTAL IMPLANT, WHICH ALLOWS THE PROSTHESIS TO BE SCREWED OR RETAINED BY A CLIP, AS APPROPRIATE

Abstract: The invention relates to a dual fixation system for fixing a prosthesis to a dental implant, comprising: a unit comprising an intermediate post for fixing to an implant (FIG 8); a clip fixation device (FIG 3); a fixation screw (FIG 4); and a cylinder (FIG 1) which allows the prosthesis to be screwed or retained by a clip, as appropriate, individually and independently for each implant. The system facilitates immediate loading and the attachment of the final prosthesis to the intermediate post, since clip retention is very advantageous in the case of implants with unfavourable emergences, joining the implants to the structure as posts and without compromising the aesthetics of the case.

Classifications:

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

CPC: A61C8/00

PatBase - WO19115846_A1

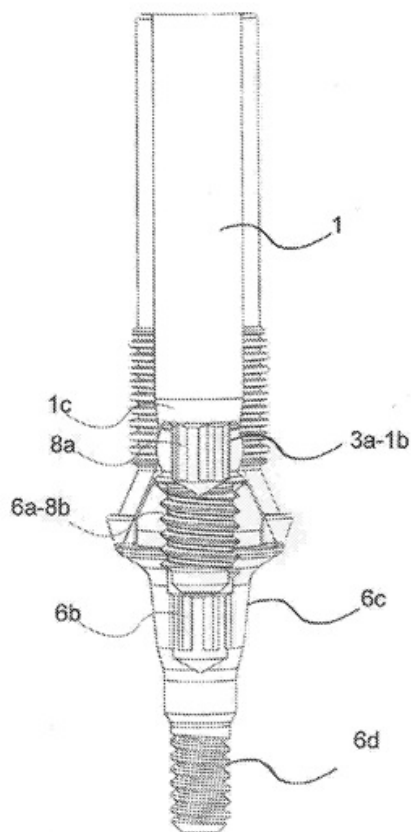


FIG 28

Family:

Publication number	Publication date	Application number	Application date
ES2667813 AA	20180514	ES20170000799	20171212
ES2667813 BB	20180809	ES20170000799	20171212

Priority:

ES20170000799 20171212

Probable Assignee: CUESTA GARCIA JULIAN**Assignee(s):** (std): CUESTA GARCIA JULIAN**Assignee(s):** JULIAN CUESTA GARCIA**Inventor(s):** (std): CUESTA GARCIA JULIAN**Inventor(s):** JULIAN CUESTA GARCIA**Agent(s):** ERCORECA GRANA DEBORAH

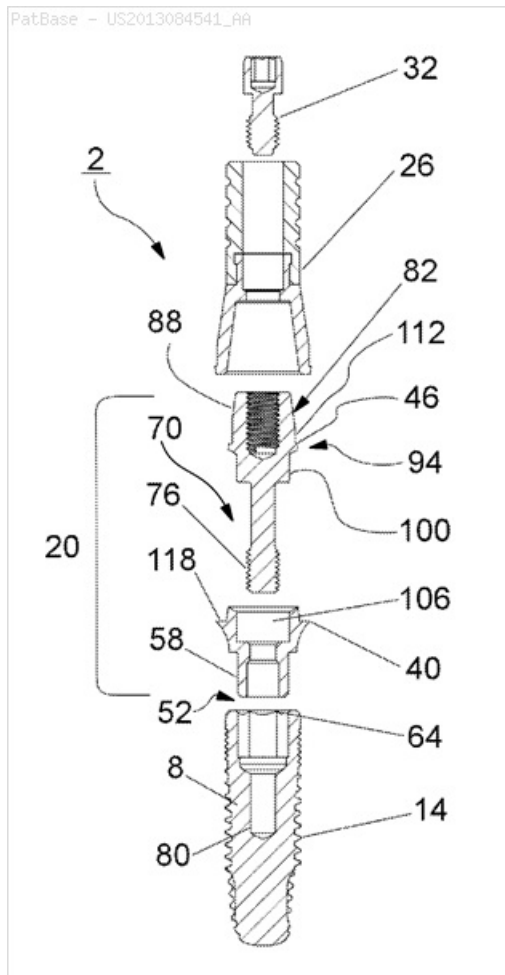
Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DJ DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JO JP KE KG KH KM KN KP KR KW KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN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

2) Family number: 53090094 (US2013084541A)

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Title: IMPLANT SYSTEM

Abstract: An implant system (160) for fastening a blocked, detachable dental prosthesis (172) in a patient's jaw (166), comprising at least one distal implant (130) and at least one mesial implant (2), wherein each implant (2, 130) comprises a screw-in part (8) with an external thread (14), an abutment (20, 136) which can be inserted into the screw-in part (8), and a functional part (26) for fastening the dental prosthesis (172), which can be screwed together with the abutment (20, 136) by means of a functional screw (32), shall improve the anchorage of a blocked dental prosthesis (172) in a jaw (166) as against conventional solutions. For this purpose, according to the invention, the abutment (20) of each mesial implant (2) is made up of several parts, in particular of two parts.

Classifications:**International (IPC 8-9):** A61C8/00 (Advanced/Invention)**CPC:** A61C8/0025 A61C8/0048**US:** 433/174**Family:**

Publication number	Publication date	Application number	Application date
EP2561826 A1	20130227	EP20110006976	20110826
US2013084541 AA	20130404	US20120593887	20120824

Priority:

EP20110006976 20110826

Probable Assignee: SIC INVENT AG**Assignee(s):** (std): SIC INVENT AG ; VON MALOTTKI MARCUS**Inventor(s):** (std): VON MALOTTKI MARCUS**Agent(s):** Tergau & Walkenhorst

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

Title: SYSTEM FOR IMPLANTING FIXED DENTAL PROSTHESIS

Abstract: System for the implantation of fixed dental prosthesis, starting from a master model (9) which reproduces the jawbone (1) of the patient, including "replicas" (8), which match with the posts (3) of the implants (2) incorporated into the jawbone (1), on said "replicas" (8) are arranged titanium columns (10) which are joined by means of titanium bridges (11) fixed by laser welding to said columns (10), forming a frame which can be used as a base for the construction and anchoring of the prosthesis; the frame can be made from a titanium block (20) obtained by lost wax casting from a wax blocks (19), while incorporating into said block (20) false parts (15) which determine the seats, by fixing said parts by laser welding in the corresponding hollows left by elements (17) calcined by casting.

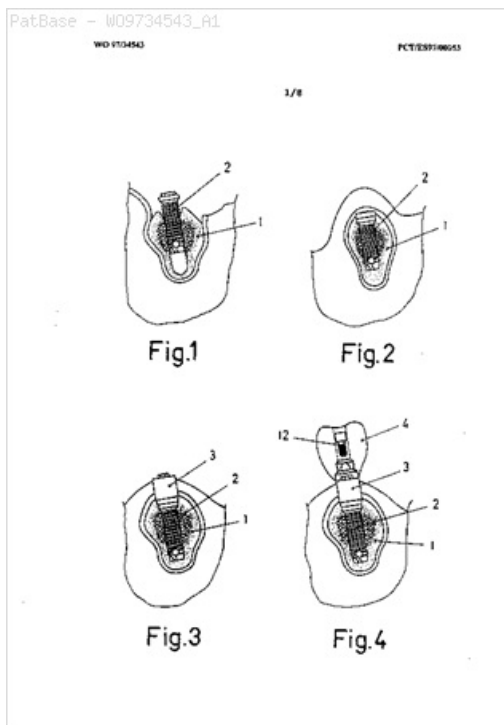
Classifications:

International (IPC 8-9): A61C13/275 A61C8/00 (Advanced/Invention); A61C13/225 A61C8/00 (Core/Invention)

International (IPC 1-7): A61C13/275 A61C8/00

CPC: A61C8/0001 A61C8/0048 A61C13/275

European: A61C13/275 A61C8/00B A61C8/00G



Family:

Publication number	Publication date	Application number	Application date
ES2109890 AA	19980116	ES19960000638	19960315
ES2109890 BA	19980901	ES19960000638	19960315
ES2117947 AA	19980816	ES19960001471	19960602
ES2117947 BA	19990401	ES19960001471	19960602
WO9734543 A1	19970925	WO1997ES00053	19970307

Priority:

ES19960000638 19960315 ES19960001471 19960602

Probable Assignee: INVEST Y DESARROLLO DEL TITANI

Assignee(s): (std): CENTRO DE INVESTIGACION Y DESARROLLO DEL TITANIO E ; INVEST Y DESARROLLO DEL TITANI

Assignee(s): CENTRO DE INVESTIGACION Y DESARROLLO DEL ; CENTRO DE INVESTIGACION Y DESARROLLO DEL TITANIO EN IMPLANTOLOGIA ORAL SOCIEDAD LIMITADA

Inventor(s): (std): GARCIA CASTILLO M CARMEN ; GARCIA CASTILLO MA CARMEN

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

Title: INTEGRATED SYSTEM TO STABILIZE DENTAL PROSTHESES

Abstract: A dental system for holding a pre-existing prosthesis with at least one mini-implant having a head portion, the system comprising: a retention bar comprising a base and at least one housing configured to allow accommodation of the head portion of the mini- implant; a bar clamp capable of engaging the base of the retention bar; a retention hook capable of snapping onto the bar clamp; and a removable elastic cover, wherein the retention hook is capable of attaching to and retaining the dental prosthesis, and wherein the elastic cover completely covers the housing of the retention bar.

Classifications:

International (IPC 8-9): A61C13/275 A61C8/00

A61F (Advanced/Invention);

A61F (Subclass/Invention)

CPC: A61C8/0048 A61C8/0089 A61C2013/2753 A61C8/0075

Fig. 10A

Family:

Publication number	Publication date	Application number	Application date
IL230284 A0	20140831	IL20140230284	20140101
WO15101994 A1	20150709	WO2015IL50005	20150101

Priority:

IL20140230284 20140101

Probable Assignee: CORTEX DENTAL IMPLANTS IND LTD

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Assignee(s): UNIVERSIDAD DE CONCEPCION ; UNIVERSIDAD DE CONCEPCIORN

Inventor(s): (std): MAMRAEV MEIR ; JOFRE ARAYA JORGE ANTONIO ; DOTAN AVIAD

Agent(s): GOLDRAICH MARGANIT

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

5) Family number: 47086371 (US2012135380A)

Title: IMPLANT ANALOG

Abstract: The invention relates to an implant analog for placing in a jaw model for modeling a dental prosthesis by means of the jaw model. Said analog comprises a sleeve extending in an axial direction and comprising an axial inner bore having an internal thread for threading in a fastening screw for fastening a post to the implant analog, wherein the post is provided for fastening a dental prosthesis. According to the invention, the sleeve comprises a self-tapping external thread for threading in the implant analog into a jaw model. The invention further relates to a method for applying such implant analogs and an implant system having such implant analogs.

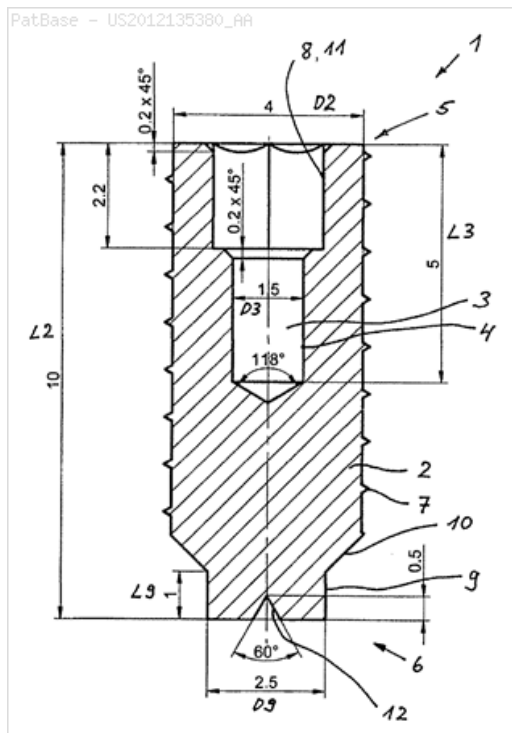
Classifications:

International (IPC 8-9): A61C13/34 A61C8/00 (Advanced/Invention);
A61C8/00 (Core/Invention)

CPC: A61C8/0001

European: A61C8/00B

US: 433/213 433/213P



Family:

Publication number	Publication date	Application number	Application date
EP2416728 A1	20120215	EP20090776528	20090411

US2012135380 AA	20120531	US20090263744	20090411
WO10115443 A1	20101014	WO2009EP02704	20090411

Priority:

WO2009EP02704 20090411

Probable Assignee: PALTI ADY

Assignee(s): (std): PALTI ADY

Inventor(s): (std): PALTI ADY

Agent(s): SOELLNER UDO

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

6) Family number: 61543439 (US2017202649A)

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Title: PROVISIONAL PROSTHETIC SYSTEMS AND METHODS OF USING SAME

Abstract: Provisional prosthetic systems and methods of coupling such provisional prosthetic systems to a dental implant are disclosed. The provisional prosthetic system can include at least one dental component having a provisional connection feature and a prosthesis. A clinician can couple the prosthesis to the dental component using a bonding agent. The clinician can then drill a hole through the prosthesis. The hole can be configured to receive a fastener to securely fasten the prosthesis and dental component to the implant.

Classifications:

International (IPC 8-9): A61C A61C1/08 A61C13/107

A61C8/00 (Advanced/Invention)

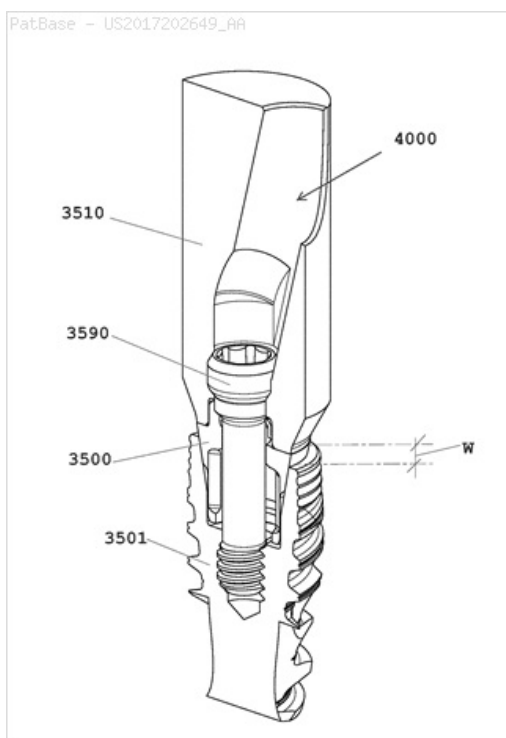
International (IPC 1-7): A61C8/00

CPC: A61C8/005 A61C8/0001 A61C8/0057 A61C2008/0084

A61C13/0001 A61C1/084 A61C8/0062 A61C8/0089 A61C8/0068

A61C8/0066 A61C8/0048

US: 1/1 433/213



Family:

Publication number	Publication date	Application number	Application date
AU2015293884 AA	20170202	AU20150293884	20150724
BR112017001456 A2	20171205	BR20171101456	20150724
CA2955556 AA	20170118	CA20152955556	20150724
CN106659550 A	20170510	CN201580040578	20150724
EP3171816 A1	20170531	EP20150742230	20150724
IN201737000347 A	20170505	IN201737000347	20170104
JP2017525437 T2	20170907	JP20170504135T	20150724
KR20170038033 A	20170405	KR20177005516	20150724
US2017202649 AA	20170720	US20150328867	20150724
WO16012581 A1	20160128	WO2015EP66970	20150724
ZA201700144 A	20180725	ZA20170000144	20150724

Priority:

US20140029289P 20140725

US20150328867 20150724

WO2015EP66970 20150724

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Inventor(s): (std): WEITZEL JOERG ; HAUS ADRIAN ; HOLST STEFAN ; HURSON STEVEN M ; PERSON MAGNUS ; CARRETTA ROBERTO ; BERNHARD NICOLAI ; WEITZEL JORG ; WEITZEL J RG ; NICOLAI BERNHARD ; ROBERTO CARRETTA ; ADRIAN HAUS ; STEFAN HOLST ; STEVEN M HURSON ; MAGNUS PERSON ; JOERG WEITZEL

Inventor(s): PERSSON MAGNUS

Agent(s): WATERMARK INTELLECTUAL PROPERTY PTY LTD; FETHERSTONHAUGH AND CO; CAPRE DIDIER

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

7) Family number: 64285449 (BR202014032107U)

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Title: APERFEICOAMENTO INTRODUCIDO EM IMPLANTE COM SISTEMA DE RETENCAO E MOBILIDADE DA PROTESE DENTARIA WHILE INTRODUCED IN IMPLANT WITH RETENTION SYSTEM AND MOBILITY OF DENTAL PROSTHESIS (Machine translation)

Abstract: Source: BR202014032107U [PT] RESUMO "APERFEICOAMENTO INTRODUCIDO EM IMPLANTE COM SISTEMA DE RETENCAO E MOBILIDADE DA PROTESE DENTARIA", compreendido por um implante de hexagono externo ou interno, que recebe o acoplamento de um UCLA sobre o qual de forma envolvente e aplicada uma protese, fixada atraves de um parafuso de fixacao, dotado de cabeca, cujo topo recebe uma mola comprimida por uma tampa sobre a qual e aplicada uma resina polimizada, caracterizado pelo implante de hexagono externo ou interno, acondicionar intemamente uma mola tensionadora comprimida pelo parafuso de fixacao, em uma disposicao derivativa a mola e substituida por uma arruela de pressao, ou por um anel de vedacao. **Machine translation:** Enhancing INTRODUCED INTO IMPLANT WITH DENTAL PROSTHESIS" MOBILITY AND RETENTION SYSTEM, comprised of an external or internal hexagon implant that receives coupling a UCLA on which such engaging and applied a prosthesis, fixed via a fixing bolt having head, whose top receives a compressed spring by a cap onto which is applied a resin polimizada, wherein external or internal hexagon implant, a fixation bolt tensioner spring internally compressed by packaging, in one arrangement derivative, the spring is replaced with a pressure washer, or by a sealing ring.

Classifications:

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

CPC: A61C8/00

PatBase - BR202014032107_U2

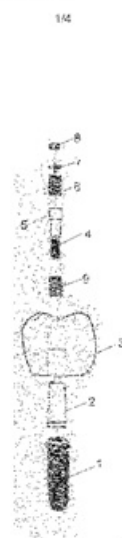


FIG. 1

Family:

Publication number	Publication date	Application number	Application date
BR202014032107 U2	20161116	BR20142032107U	20141219

Priority:

BR20142032107U 20141219

Probable Assignee: IDELFONSO AGUINALDO
Assignee(s): (std): IDELFONSO AGUINALDO
Assignee(s): AGUINALDO IDELFONSO
Inventor(s): (std): IDELFONSO AGUINALDO
Inventor(s): AGUINALDO IDELFONSO

8) Family number: 45944501 (BRPI0902322A)

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Title: conjunto de estruturas para sistema de implante e retencao de dentaduras set of structures for system of implantation and set of teeth retention (Machine translation)

Abstract: Source: BRPI0902322A [PT] 1 RESUMO "CONJUNTO DE ESTRUTURAS PARA SISTEMA DE IMPLANTE E RETENCAO DE DENTADURAS", formado por uma estrutura metalica (denominada infra-estrutura) (1) fixada previamente por parafusos (PA), em 5 inclinacao estudada sobre implantes (I) ja osseointegrados a gengiva do paciente, dita infra-estrutura metalica especialmente configurada em forma de bloco inteiro com reentrancias (3) e borda superior (2) projetada em angulacao tal para que possa receber o envolvimento e encaixe por interferencia das paredes de compartimentos internos (14) correspondentes de 10 uma estrutura tambem metalica (denominada supra-estrutura) (8), por sua vez previamente incorporada e envolvida pela massa de resina acrilica na base da dentadura (protese). O acoplamento entre esses componentes (por interferencia total) e feito de forma extremamente eficaz, gracias a configuracao e tambem pelo material de que sao fabricadas, impedindo a soltura da dentadura e dando 15 a estabilidade necessaria a mastigacao, alem de ser evitado o desgaste ja que o atrito, por ser provocado entre duas pecas metalicas de alta dureza, e absorvido, evitando-se

manutenções e substituições de peças convencionais como anéis o'ring, cliques/presilhas, barras, além da redução de custos. Rvfc-0/1203 0044 percent /) / 5 Rroq 023 a IL-4 "CONJUNTO DE ESTRUTURAS PARA SISTEMA DE FIXAÇÃO E RETENÇÃO DE DENTADURAS" Refere-se ao presente relatório descritivo, a um pedido de patente de invenção para um conjunto formado por uma estrutura metálica a ser fixada '5 sobre implantes já osseointegrados a mandíbula ou maxila do paciente, A 'segundo-se ao encaixe de uma segunda estrutura, também metálica, a qual, por sua vez e incorporada a massa de resina acrílica da base da dentadura. O encaixe entre as estruturas metálicas é feito por interferência total, promovendo um inedito sistema de fixação e retenção de dentaduras. Pelo 10 sistema proposto a prótese é fixada eficazmente para segura mastigação e, principalmente, evitando desgastes (já que ambas as estruturas possuem mesmo material) dando-lhe grande vida útil e sem manutenções. A dentadura pode ser retirada para a assepsia bucal. ESTADO DA TÉCNICA 15 É conhecido e largamente utilizado o sistema de implantes de dentaduras, produzidas em forma de uma base de resina acrílica reproduzindo todos os dentes da arcada dentária original da mandíbula ou da maxila, as quais são fixadas no paciente para que o mesmo recupere a atividade de mastigação. 20 Para tanto, o cirurgião efetua a perfuração em pontos predeterminados da arcada dentária e parafusa os implantes (bases) no osso fixados através de um dispositivo de torque. Em um sistema conhecido, após a etapa de osseointegração o cirurgião fixa uma barra de apoio da prótese, sobre os implantes e, através de cliques ou presilhas de teflon, fixa a dentadura na 2/7 arcada. Em outro sistema conhecido, sobre os implantes também já osseointegrados, são fixados anéis o'ring para a retenção da prótese. Ocorre que esses tipos de fixação convencionais para dentaduras, apesar de 5 de sua satisfatória funcionalidade exigem manutenção para troca de presilhas ou de anéis, pois o desgaste e grande dado atrito causado pela diferença de materiais como o teflon (cliques) e borracha (anéis o'ring) sobre as peças metálicas (implantes). Além da necessidade observada para manutenções periódicas, esses sistemas convencionais, por receberem a prótese ancorada em 10 determinados pontos (onde são inseridos os implantes), podem não dar a estabilidade desejada para a mastigação, além de trazer certa dificuldade para sua retirada e reposição por parte do usuário quando dos trabalhos de limpeza e assepsia bucal. OBJETIVO DA PATENTE 15 O conjunto em questão vem solucionar esses problemas através de uma estrutura metálica (denominada infra-estrutura) fixada previamente por parafusos, em inclinação estudada, sobre os implantes já osseointegrados a gengiva do paciente, dita infra-estrutura metálica especialmente configurada em forma de bloco inteírico com reentrâncias e borda superior projetada em 20 angulação tal para que possa receber o envolvimento e encaixe por interferência total e feito de forma internamente correspondentes de uma estrutura também metálica (denominada supra-estrutura), por sua vez previamente incorporada e envolvida pela massa de resina acrílica na base da dentadura (prótese). 3/7 Pela configuração das estruturas e pelo material de que são fabricadas, o acoplamento entre esses componentes por interferência total e feito de forma extremamente eficaz impedindo a soltura da dentadura e dando a estabilidade necessária a mastigação, além de ser evitado o desgaste já que o atrito, por ser 5 provocado entre duas peças metálicas de alta dureza, é absorvido. Pelo sistema proposto evitam-se manutenções e substituições de peças convencionais como anéis o'ring, cliques/presilhas, barras, além da redução de custos. A retirada para manutenções é facilitada pois basta apenas um repuxo manual da dentadura por parte do usuário, o que possibilita-lhe manter perfeita assepsia 10 bucal, seguindo-se após a limpeza, do novo encaixe natural, por interferência, entre as estruturas metálicas. Explicados superficialmente, passam o conjunto de estruturas metálicas e o sistema que as envolvem, a serem melhor detalhados através dos desenhos anexos, pelos quais se veem: 15 Figura 1 - Vista em perspectiva (esquemática) de uma arcada dentária já com furacão no osso, para receber a fixação dos implantes por torque. Como mostra a figura, sobre os implantes será assentada a infra-estrutura com sua furacão alinhada para receber os parafusos de fixação. Sobre a infra-estrutura, é indicado o sentido de acoplamento da supra-estrutura, a qual é mostrada em 20 vistas sequenciais em perspectiva. Para um melhor entendimento do sistema, a supra-estrutura não está incorporada a base de resina acrílica da prótese (dentadura). As figuras abaixo, relacionadas de 2 a 5, mostram a sequência de fixação da infra-estrutura a arcada dentária, para posteriormente receber o 4/7 acoplamento da supra-estrutura. Para um melhor entendimento, a supra- estrutura não está incorporada a base de resina acrílica da prótese (dentadura): Figura 2 - Vista em perspectiva, mostrando os implantes já osseointegrados, a partir da furacão do osso da arcada paciente; 5 Figura 3 - Vista segundo figura anterior, mostrando a infra-estrutura já fixada pelos parafusos nos implantes da arcada dentária do paciente, pronta para receber o acoplamento da supra-estrutura; Figura 4 - Vista segundo figura anterior, mostrando a supra-estrutura já envolvendo, pelas paredes de seus compartimentos, em encaixe por 10 interferência, a infra-estrutura; Figura 5 - Vista segundo figura anterior, mostrando a supra-estrutura já acoplada, em encaixe por interferência, a infra-estrutura. As figuras, abaixo relacionadas, de 6 a 8, mostram a supra-estrutura incorporada a base da massa de resina acrílica da dentadura (prótese): 15 Figura 6 - Vista em perspectiva da supra-estrutura incorporada a base da dentadura, mostrando o seu sentido de acoplamento a infra-estrutura, por sua vez já fixada sobre os implantes, na arcada dentária do paciente; Figura 7 - Vista em perspectiva da dentadura antes do acoplamento a infra-estrutura, na arcada dentária do paciente; 20 Figura 8 - Vista segundo figura anterior, mostrando a dentadura já fixada em encaixe por interferência, segundo o sistema proposto. A figura a seguir, mostra, em corte, o acoplamento segundo o sistema proposto. 9 - Vistas em corte parcial A-A, mostrando o acoplamento por 5/7 interferência através das paredes dos compartimentos da supra-estrutura as reentrâncias e as bordas levemente cônicas e em inclinação para dentro, da infra-estrutura. Em conformidade com os desenhos anexos, o "CONJUNTO DE 5 ESTRUTURAS PARA SISTEMA DE FIXAÇÃO E RETENÇÃO DE DENTADURAS", objeto desse presente pedido de patente de invenção, constitui-se a partir de uma primeira estrutura metálica, ou infra-estrutura (1) em conformação compatível a mandíbula e/ou maxila do paciente, composta por uma base arqueada (2) dotada de reentrâncias (3), das quais projetam-se 10 ressalto (4) vazados por respectivos furos (5), efetuados a partir de suas bordas superiores (6). Tanto as bordas superiores (6) quanto as bordas laterais (7) dos ressalto (4) possuem angulação em inclinação para dentro, dando a infra-estrutura (1) configuração levemente cônica além, obviamente, ser arqueada de modo a acompanhar a anatomia da arcada dentária do paciente. 15 A infra-estrutura (1) é completada por uma segunda estrutura metálica ou supra-estrutura (8), composta por paredes frontal (9) e traseira (10) concordantes com paredes laterais (11) projetando pinos de engastamento (12), formando um corpo em arqueamento, em forma de caixa, levemente maior e correspondente ao arqueamento da base (2) da infra-estrutura (1). O corpo da 20 supra-estrutura (8) é dividido internamente por paredes (13), das quais originam-se compartimentos (14) compatíveis para o envolvimento das bordas laterais (7) em concidência dos ressalto (4) da infra-estrutura (1). Assim composto, o conjunto de estruturas será utilizado em um sistema pelo qual a infra-estrutura (1) será fixada na arcada (A) dentária do paciente e, 6/7 simultaneamente, em etapa correlata, quando da feitura da prótese sendo previsto que o material de resina acrílica (R) seja moldado de forma a envolver, na base da dentadura (D), as paredes frontal (9), traseira (10) e laterais (11) da supra-estrutura (8). O envolvimento e reforçado pelos pinos 5 de engastamento (12) penetrantes no material acrílico (R) de que é feita a dentadura (D) ou prótese. Com o envolvimento, forma-se uma cavidade na base de resina acrílica de modo a expor os compartimentos (14) da supra-estrutura (8), a qual e, assim, definitivamente incorporada a dentadura (D). 10 Como ilustra a figura 1, após furacão (F) em pontos predeterminados na arcada dentária (A), são osseointegrados preferencialmente quatro implantes (I) distribuídos em pontos estratégicos, na mandíbula ou na maxila do paciente. Em seguida, a infraestrutura (1), como mostra a figura 2, é assentada com os furos (5) de seus ressalto (4) alinhados sobre os implantes (I), 15 recebendo o parafusamento por parafusos (PA), fixando-se definitivamente. Após a fixação da infra-estrutura (1) a arcada dentária (A) do paciente, pelas bordas superiores (6) e bordas laterais (7) dos ressalto (4), em leve angulação, são acopladas em total interferência as paredes internas (13) dos compartimentos (14) da supra-estrutura (8), incorporada a dentadura (D), 20 provocando sua eficaz retenção, como mostram as figuras seguintes, 3, 4, 5, 6, 7, 8 e 9. Como se pode observar, especialmente pelo corte A-A da figura 9, o acoplamento se dá por total interferência entre as paredes (13) e compartimentos (14) do corpo da supra-estrutura (8) e os ressalto (4) do 7/7 corpo da infra-estrutura (1), acoplamento esse que, juntamente com o posicionamento estratégico dos implantes (I), irá provocar a estabilização da dentadura (D). Com isso, é promovida uma melhor distribuição na carga da mastigação durante os movimentos da mandíbula ou do maxilar. A atividade de 5 mastigação não provocará desgastes já que o atrito será feito entre as estruturas (1) e (8) de mesma natureza metálica, evitando-se, definitivamente, manutenções na dentadura (D). 1/2 REIVINDICAÇÕES 1) "CONJUNTO DE ESTRUTURAS PARA SISTEMA DE IMPLANTE E RETENÇÃO DE DENTADURAS", caracterizado por uma infra-estrutura (1) composta por base arqueada (2) dotada de reentrâncias (3) das quais projetam- 5 se ressalto (4) vazados por respectivos furos (5), efetuados a partir de suas bordas superiores (6), as quais, a exemplo das bordas laterais (7) dos ressalto (4), possuem angulação em inclinação para dentro dando a referida infra- estrutura (1) configuração levemente cônica e arqueada, dita infra-estrutura (1) completada por uma supra-estrutura (8) composta por paredes frontal (9) e 10 traseira (10) concordantes com paredes laterais (11), projetando pinos de engastamento (12), formando um corpo em arqueamento em forma de caixa, levemente maior e correspondente ao arqueamento da base (2) da infra- estrutura (1), dito corpo da supra-estrutura (8) sendo dividido internamente por paredes (13) das quais originam-se compartimentos (14), compatíveis para o 15 envolvimento das bordas laterais (7) em concidência dos ressalto (4) da infra- estrutura (1). 2) "SISTEMA DE IMPLANTE E RETENÇÃO DE DENTADURAS", de acordo com reivindicação 1, caracterizado pelas paredes frontal (9), traseira (10) e laterais (11) da supra-estrutura (8) serem envolvidas pelo material de 20 resina acrílica (R), incorporadas juntamente com o engastamento de seus pinos (12) na base da dentadura (D) durante etapa de moldagem da prótese dentária, formando, nesta última, uma cavidade que expoe os compartimentos (14) e as paredes (13) da supra-

estrutura (8). 3) "SISTEMA DE IMPLANTE E RETENCAO DE DENTADURAS", de acordo 2/2 com reivindicacoes 1 e 2, apos furacao (F) em pontos predeterminados na arcada dentaria (A) para a osseointegracao de implantes (I) na mandibula ou na maxila do paciente, ser efetuada a fixacao, por parafusos (PA), da infraestrutura (1), caracterizada por receber, pelas bordas superiores (6) e 5 bordas laterais (7) dos ressaltos (4) em leve angulacao, o acoplamento em total interferencia das paredes internas (13) dos compartimentos (14) da supra- estrutura (8), incorporada a dentadura (D). 1/1 RESUMO

"CONJUNTO DE ESTRUTURAS PARA SISTEMA DE IMPLANTE E RETENCAO DE DENTADURAS", formado por uma estrutura metalica (denominada infra-estrutura) (1) fixada previamente por parafusos (PA), em 5 inclinacao estudada sobre implantes (I) ja osseointegrados a gengiva do paciente, dita infra-estrutura metalica especialmente configurada em forma de bloco inteirico com reentrancias (3) e borda superior (2) projetada em angulacao tal para que possa receber o envolvimento e encaixe por interferencia das paredes de compartimentos internos (14) correspondentes de 10 uma estrutura tambem metalica (denominada supra-estrutura) (8), por sua vez previamente incorporada e envolvida pela massa de resina acrilica na base da dentadura (protese). O acoplamento entre esses componentes (por interferencia total) e feito de forma extremamente eficaz, gracias a configuracao e tambem pelo material de que sao fabricadas, impedindo a soltura da dentadura e dando 15 a estabilidade necessaria a mastigacao, alem de ser evitado o desgaste ja que o atrito, por ser provocado entre duas pecas metalicas de alta dureza, e absorvido, evitando-se manutencoes e substituicoes de pecas convencionais como aneis o ring, cliques/presilhas, barras, alem da reducao de custos. 1/7 "CONJUNTO DE ESTRUTURAS PARA SISTEMA DE FIXACAO E RETENCAO DE DENTADURAS" Refere-se o presente relatorio descritivo, a um pedido de patente de invencao para um conjunto formado por uma estrutura metalica a ser fixada 5 sobre implantes ja osseointegrados a mandibula ou maxila do paciente, seguindo-se ao encaixe de uma segunda estrutura, tambem metalica, a qual, por sua vez e incorporada a massa de resina acrilica da base da dentadura. O encaixe entre as estruturas metalicas e feito por interferencia total, promovendo um inedito sistema de fixacao e retencao de dentaduras. Pelo 10 sistema proposto a protese e fixada eficazmente para segura mastigacao e, principalmente, evitando desgastes (ja que ambas as estruturas possuem mesmo material) dando-lhe grande vida util e sem manutencoes. A dentadura pode ser retirada para a assepsia bucal. ESTADO DA TECNICA 15 E conhecido e largamente utilizado o sistema de implantes de dentaduras, produzidas em forma de uma base de resina acrilica reproduzindo todos os dentes da arcada dentaria original da mandibula ou da maxila, as quais sao fixadas no paciente para que o mesmo recupere a atividade de mastigacao. 20 Para tanto, o cirurgiao efetua a perfuracao em pontos predeterminados da arcada dentaria e parafusa os implantes (bases) no osso fixados atraves de um dispositivo de torque. Em um sistema conhecido, apos a etapa de osseointegracao o cirurgiao fixa uma barra de apoio da protese, sobre os implantes e, atraves de cliques ou presilhas de teflon, fixa a dentadura na 2/7 arcada. Em outro sistema conhecido, sobre os implantes tambem ja osseointegrados, sao fixados aneis o'ring para a retencao da protese. Ocorre que esses tipos de fixacao convencionais para dentaduras, apesar 5 de sua satisfatoria funcionalidade exigem manutencao para troca de presilhas ou de aneis, pois o desgaste e grande dado atrito causado pela diferenca de materiais como o teflon (cliques) e borracha (aneis o'ring) sobre as pecas metalicas (implantes). Alem da necessidade observada para manutencoes periodicas, esses sistemas convencionais, por receberem a protese ancorada em 10 • determinados pontos (onde sao inseridos os implantes), podem nao dar a estabilidade desejada para a mastigacao, alem de trazer certa dificuldade para sua retirada e reposicao por parte do usuario quando dos trabalhos de limpeza e assepsia bucal. OBJETIVO DA PATENTE 15 O conjunto em questao vem solucionar esses problemas atraves de uma estrutura metalica (denominada infra-estrutura) fixada previamente por parafusos, em inclinacao estudada, sobre os implantes ja osseointegrados a gengiva do paciente, dita infra-estrutura metalica especialmente configurada em forma de bloco inteirico com reentrancias e borda superior projetada em 20 angulacao tal para que possa receber o envolvimento e encaixe por interferencia das paredes de compartimentos internos correspondentes de uma estrutura tambem metalica (denominada supra-estrutura), por sua vez previamente incorporada e envolvida pela massa de resina acrilica na base da dentadura (protese). 3/7 Pela configuracao das estruturas e pelo material de que sao fabricadas, o acoplamento entre esses componentes por interferencia total e feito de forma extremamente eficaz impedindo a soltura da dentadura e dando a estabilidade necessaria a mastigacao, alem de ser evitado o desgaste ja que o atrito, por ser 5 provocado entre duas pecas metalicas de alta dureza, e absorvido. Pelo sistema proposto evitam-se manutencoes e substituicoes de pecas convencionais como aneis o'ring, cliques/presilhas, barras, alem da reducao de custos. A retirada para manutencoes e facilitada pois basta apenas um repuxo manual da dentadura por parte do usuario, o que possibilita-lhe manter perfeita assepsia 10 bucal, seguindo-se apos a limpeza, do novo encaixe natural, por interferencia, entre as estruturas metalicas. Explicados superficialmente, passam o conjunto de estruturas metalicas e o sistema que as envolvem, a serem melhor detalhados atraves dos desenhos anexos, pelos quais se veem: 15 Figura 1 - Vista em perspectiva (esquematica) de uma arcada dentaria ja com furacao no osso, para receber a fixacao dos implantes por torque. Como mostra a figura, sobre os implantes sera assentada a infra-estrutura com sua furacao alinhada para receber os parafusos de fixacao. Sobre a infra-estrutura, e indicado o sentido de acoplamento da supra-estrutura, a qual e mostrada em 20 vistas sequenciais em perspectiva. Para um melhor entendimento do sistema, a supra-estrutura nao esta incorporada a base de resina acrilica da protese (dentadura). As figuras abaixo, relacionadas de 2 a 5, mostram a sequencia de fixacao da infra-estrutura a arcada dentaria, para posteriormente receber o 4/7 acoplamento da supra-estrutura. Para um melhor entendimento, a supra- estrutura nao esta incorporada a base de resina acrilica da protese (dentadura): Figura 2 - Vista em perspectiva, mostrando os implantes ja osseointegrados, a partir da furacao do osso da arcada paciente; 5 Figura 3 - Vista segundo figura anterior, mostrando a infra-estrutura ja fixada pelos parafusos nos implantes da arcada dentaria do paciente, pronta para receber o acoplamento da supra-estrutura; Figura 4 - Vista segundo figura anterior, mostrando a supra-estrutura ja envolvendo, pelas paredes de seus compartimentos, em encaixe por 10 interferencia, a infra-estrutura; Figura 5 - Vista segundo figura anterior, mostrando a supra-estrutura ja acoplada, em encaixe por interferencia, a infra-estrutura. As figuras, abaixo relacionadas, de 6 a 8, mostram a supra-estrutura incorporada a base da massa de resina acrilica da dentadura (protese): 15 Figura 6 - Vista em perspectiva da supra-estrutura incorporada a base da dentadura, mostrando o seu sentido de acoplamento a infra-estrutura, por sua vez ja fixada sobre os implantes, na arcada dentaria do paciente; Figura 7 - Vista em perspectiva da dentadura antes do acoplamento a infra-estrutura, na arcada dentaria do paciente; 20 Figura 8 - Vista segundo figura anterior, mostrando a dentadura ja fixada em encaixe por interferencia, segundo o sistema proposto. A figura a seguir, mostra, em corte, o acoplamento segundo o sistema proposto. 9 - Vistas em corte parcial A-A, mostrando o acoplamento por 5/7 interferencia atraves das paredes dos compartimentos da supra-estrutura as reentrancias e as bordas levemente conicas e em inclinacao para dentro, da infra-estrutura. Em conformidade com os desenhos anexos, o "CONJUNTO DE 5 ESTRUTURAS PARA SISTEMA DE FIXACAO E RETENCAO DE DENTADURAS", objeto desse presente pedido de patente de invencao, constitui-se a partir de uma primeira estrutura metalica, ou infra-estrutura (1) em conformacao compativel a mandibula e/ou maxila do paciente, composta por uma base arqueada (2) dotada de reentrancias (3), das quais projetam-se 10 ressaltos (4) vazados por respectivos furos (5), efetuados a partir de suas bordas superiores (6). Tanto as bordas superiores (6) quanto as bordas laterais (7) dos ressaltos (4) possuem angulacao em inclinacao para dentro, dando a infra-estrutura (1) configuracao levemente conica alem, obviamente, ser arqueada de modo a acompanhar a anatomia da arcada dentaria do paciente. 15 A infra-estrutura (1) e completada por uma segunda estrutura metalica ou supra-estrutura (8), composta por paredes frontal (9) e traseira (10) concordances com paredes laterais (11) projetando pinos de engastamento (12), formando um corpo em arqueamento, em forma de caixa, levemente maior e correspondente ao arqueamento da base (2) da infra-estrutura (1). O corpo da 20 supra-estrutura (8) e dividido internamente por paredes (13), das quais originam-se compartimentos (14) compatíveis para o envolvimento das bordas laterais (7) em coincidência dos ressaltos (4) da infra-estrutura (1). Assim composto, o conjunto de estruturas sera utilizado em um sistema pelo qual a infra-estrutura (1) sera fixada na arcada (A) dentaria do paciente e, 6/7 simultaneamente, em etapa correlata, quando da feitura da protese sendo previsto que o material de resina acrilica (R) seja moldado de forma a envolver, na base da dentadura (D), as paredes frontal (9), traseira (10) e laterais (11) da supra-estrutura (8). O envolvimento e reforçado pelos pinos 5 de engastamento (12) penetrantes no material acrilico (R) de que e feita a dentadura (D) ou protese. Com o envolvimento, forma-se uma cavidade na base de resina acrilica de modo a expor os compartimentos (14) da supra-estrutura (8), a qual e, assim, definitivamente incorporada a dentadura (D). 10 Como ilustra a figura 1, apos furacao (F) em pontos predeterminados na arcada dentaria (A), sao osseointegrados preferencialmente quatro implantes (I) distribuidos em pontos estrategicos, na mandibula ou na maxila do paciente. Em seguida, a infraestrutura (1), como mostra a figura 2, e assentada com os furos (5) de seus ressaltos (4) alinhados sobre os implantes (I), 15 recebendo o parafusamento por parafusos (PA), fixando-se definitivamente. Apos a fixacao da infra-estrutura (1) a arcada dentaria (A) do paciente, pelas bordas superiores (6) e bordas laterais (7) dos ressaltos (4), em leve angulacao, sao acopladas em total interferencia as paredes internas (13) dos compartimentos (14) da supra-estrutura (8), incorporada a dentadura (D), 20 provocando sua eficaz retencao, como mostram as figuras seguintes, 3, 4, 5, 6, 7, 8 e 9. Como se pode observar, especialmente pelo corte A-A da figura 9, o acoplamento se da por total interferencia entre as paredes (13) e compartimentos (14) do corpo da supra-estrutura (8) e os ressaltos (4) do 7/7 corpo da infra-estrutura (1), acoplamento esse que, juntamente com o posicionamento estrategico dos implantes (I), ira provocar a estabilizacao da dentadura (D). Com isso, e promovida uma melhor distribuicao na carga da mastigacao durante os movimentos da mandibula ou do maxilar. A atividade de 5 mastigacao nao provocara desgastes ja que o atrito sera feito entre as estruturas

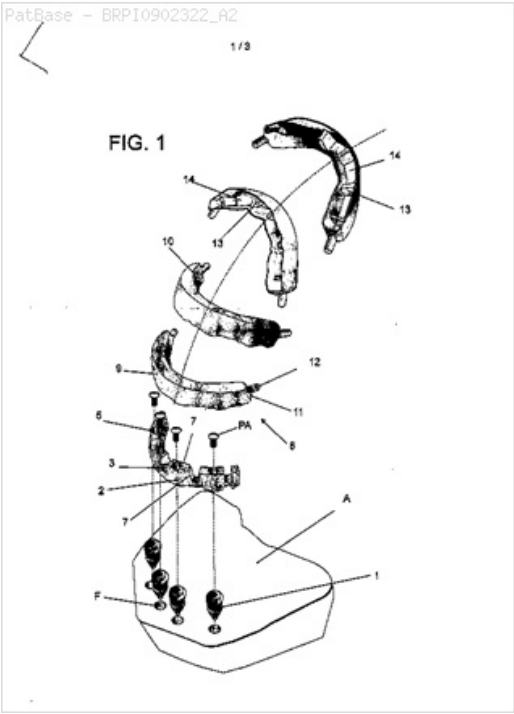
(1) e (8) de mesma natureza metálica, evitando-se, definitivamente, manutenções na dentadura (D). 1/2 REIVINDICAÇÕES 1) "CONJUNTO DE ESTRUTURAS PARA SISTEMA DE IMPLANTE E RETENÇÃO DE DENTADURAS", caracterizado por uma infra-estrutura (1) composta por base arqueada (2) dotada de reentrâncias (3) das quais projetam-se 5 seios (4) vazados por respectivos furos (5), efetuados a partir de suas bordas superiores (6), as quais, a exemplo das bordas laterais (7) dos seios (4), possuem angulação em inclinação para dentro dando a referida infra-estrutura (1) configuração levemente cônic e arqueada, dita infra-estrutura (1) completada por uma supra-estrutura (8) composta por paredes frontal (9) e 10 traseira (10) concordantes com paredes laterais (11), projetando pinos de engastamento (12), formando um corpo em arqueamento em forma de caixa, levemente maior e correspondente ao arqueamento da base (2) da infra-estrutura (1), dito corpo da supra-estrutura (8) sendo dividido internamente por paredes (13) das quais originam-se compartimentos (14), compatíveis para o 15 envolvimento das bordas laterais (7) em conicidade dos seios (4) da infra-estrutura (1). 2) "SISTEMA DE IMPLANTE E RETENÇÃO DE DENTADURAS", de acordo com reivindicação 1, caracterizado pelas paredes frontal (9), traseira (10) e laterais (11) da supra-estrutura (8) serem envolvidas pelo material de 20 resina acrílica (R), incorporadas juntamente com o engastamento de seus pinos (12) na base da dentadura (D) durante etapa de moldagem da prótese dentária, formando, nesta última, uma cavidade que expõe os compartimentos (14) e as paredes (13) da supra-estrutura (8). 3) "SISTEMA DE IMPLANTE E RETENÇÃO DE DENTADURAS", de acordo com reivindicações 1 e 2, após furar (F) em pontos predeterminados na arcada dentária (A) para a osseointegração de implantes (I) na mandíbula ou na maxila do paciente, ser efetuada a fixação, por parafusos (PA), da infra-estrutura (1), caracterizada por receber, pelas bordas superiores (6) e 5 bordas laterais (7) dos seios (4) em leve angulação, o acoplamento em total interferência das paredes internas (13) dos compartimentos (14) da supra-estrutura (8), incorporada a dentadura (D). RESUMO "CONJUNTO DE ESTRUTURAS PARA SISTEMA DE IMPLANTE E RETENÇÃO DE DENTADURAS", formado por uma estrutura metálica (denominada infra-estrutura) (1) fixada previamente por parafusos (PA), em inclinação estudada sobre implantes (I) já osseointegrados a gengiva do paciente, dita infra-estrutura metálica especialmente configurada em forma de bloco inteiro com reentrâncias (3) e borda superior (2) projetada em angulação tal para que possa receber o envolvimento e encaixe por interferência das paredes de compartimentos internos (14) correspondentes de uma estrutura também metálica (denominada supra-estrutura) (8), por sua vez previamente incorporada e envolvida pela massa de resina acrílica na base da dentadura (prótese). O acoplamento entre esses componentes (por interferência total) e feito de forma extremamente eficaz, graças a configuração e também pelo material de que são fabricadas, impedindo a soltura da dentadura e dando a estabilidade necessária a mastigação, além de ser evitado o desgaste já que o atrito, por ser provocado entre duas peças metálicas de alta dureza, é absorvido, evitando-se manutenções e substituições de peças convencionais como anéis O-ring, cliques/presilhas, barras, além da redução de custos. **Machine translation:** 1 SUMMARY "STRUCTURES SET FOR SYSTEM IMPLANT AND RETENTION OF DENTURES", formed by a metallic structure (called Infrastructure) (1) previously fixed by screws (PA) in 5 slope studied implant (I) already Osseointegrated the gum of the patient, said metallic infrastructure specially configured shaped solid block with recesses (3) and upper edge (2) designed in angle such that it may receive the involvement and engagement by interference from the walls of internal compartments (14) 10 corresponding to a structure also metallic (called super-structure) (8) previously turn embedded and enveloped by the mass of the acrylic resin denture base (prosthesis). The coupling between these components (interference total) and made extremely efficiently, thanks to configuration and also by the material they are made, preventing the release of the denture and giving 15 the necessary stability to chew, besides being avoided already wear the friction by being drawn between two metallic parts of high hardness, and absorbed, avoiding maintenance and substitutions of conventional pieces like rings O-ring, clips / clamps, bars, besides the cost reduction. Rvfc-m- 0/1203 0044 percent /) / 5 Rroq 023 IL-4 "STRUCTURES SET FOR SYSTEM Fixing And DENTURES retention" refers to the present descriptive report, a patent application for a set consisting of a structure metallic be set '5 on implants already osseointegrated the mandible or maxilla of the patient, A' followed by the fitting of a second structure, also metallic, which in turn and embedded the mass of acrylic denture base resin. The fit between the metallic and made by full interference structures, promoting a inedito fixation system and retention of dentures. 10 system proposed by the prosthesis and fixed effectively for safe chewing and mainly avoiding wear (since both structures have the same material) giving you great useful life and no maintenance. The dentures can be removed for oral asepis. state of the art 15 is known and widely used denture implant system, produced in the form of a resin-based acrylic reproducing all the teeth of the original dental arch of the mandible or maxilla, which are fixed to the patient for it regains chewing activity. 20 For this, the surgeon performs the drilling at predetermined points of the dental arch and screw implants (bases) in the bone fixed through a torque device. In a known system, after osseointegration stage the surgeon fixed an prosthesis support bar on the implants and, through clips or clamps Teflon, fixed denture in 2/7 arcade. In another known system on the implants also already osseointegrated, are set rings o'oring for the retention of the prosthesis. It turns out that these types of conventional fixation for dentures, although five of its satisfactory functionality require maintenance to exchange clamps or rings, for wear and great given friction caused by the difference of materials such as Teflon (clips) and rubber (rings O-ring) on the metallic parts (implants). In addition to the perceived need for periodic maintenance, these conventional systems, for receiving the prosthesis anchored in 10 specific points (where the implants are inserted), may not provide the desired stability for chewing, in addition to bringing some difficulty in their removal and spare by part of the User when the cleaning and oral sterilization. PURPOSE OF PATENT 15 The set in question solves these problems through a metallic structure (called Infrastructure) previously fixed by screws on tilt studied on the already implants osseointegrated the gums of the patient, said metallic infrastructure specially configured shaped solid block with recesses and the upper edge projected onto 20 angle such that it may receive the engagement and locking by interference of the walls of corresponding internal compartments of a structure also metallic (called super-structure) in turn previously incorporated and surrounded by the resin mass in the acrylic denture base (prosthesis). 3/7 For the configuration of the structures and the material they are made, the coupling between these components to total interference and done extremely effectively preventing loosening of teeth and giving the stability needed to chew, besides being avoided already wear that friction, being 5 caused between two metallic parts of high hardness, and absorbed. The proposed system avoids maintenance and substitutions of conventional parts as o'ring rings, clips / clamps, bars, besides the cost reduction. The withdrawal for maintenance and easier because it only takes a manual fountain denture by the User, which allows you to keep perfect aseptic 10 oral, followed by after cleaning, the new natural fit for interference between the metallic structures. Explained superficially pass the set of metallic structures and the system that involve, to be detailed better through the accompanying drawings, in which are seen: 15 Figure 1 - Perspective view (schematic) of a dental arch already with hurricane the bone to receive the fixation of the implants by torque. As shown on the implants will be seated infrastructure with its hurricane aligned to receive the fixation screws. On the infrastructure, and mentioned coupling direction of the superstructure, which is shown in 20 sequential views in perspective. For a better understanding of the system, the superstructure not incorporated into this base acrylic resin prosthesis (denture). The following figures, related 2-5 show the sequence of fixation of the dental arch infrastructure, to later receive 4/7 coupling the superstructure. For a better understanding, the supra-structure not this incorporated into acrylic resin base prosthesis (denture): Figure 2 - Perspective view showing the already dental implants from the hurricane bone of the patient arcade; 5 Figure 3 - view following previous figure, showing the infrastructure already fixed by screws in the implants of the dental arch of the patient, ready to receive the coupling of the superstructure; Figure 4 - viewed in the preceding figure, showing the superstructure already involving the walls of their compartments 10 in engagement by interference, the infrastructure; Figure 5. - Viewed in the preceding figure, showing the superstructure already engaged in interference fit, the infrastructure The figures listed below, from 6 to 8 show the built superstructure the basis of the mass of acrylic resin denture (prosthesis): 15 Figure 6 - View in perspective of the incorporated superstructure base denture, showing its direction of engagement infrastructure in turn already fixed on the implants, the dental arch of the patient; Figure 7 - denture perspective view before coupling the infrastructure, in the dental arch of the patient; 20 Figure 8 - View according to the previous figure, showing the denture already fixed in interference fit, according to the proposed system. The following figure shows, in court, the coupling according to the proposed system. 9 - Views in partial cut AA, showing the coupling 5/7 interference through the walls of the superstructure compartments recesses and slightly conical edges and tilt inward infrastructure. In accordance with the accompanying drawings, the "SET 5 STRUCTURES FOR Fixing SYSTEM AND RETENTION DENTURES" object that this application for patent, is made up from a first metallic structure or infrastructure (1) conformation compatible jaw and / or the patient's jaw, comprises an arcuate base (2) provided with recesses (3), which protrude 10 projections (4) cast by the holes (5), made to from their top edges (6). Both the upper edges (6) and the side edges (7) of the projections (4) have angulation slope inward, giving infrastructure (1) slightly conical configuration besides obviously be curved so as to follow the anatomy of dental arch of the patient. 15 The infrastructure (1) and completed by a second metallic structure or superstructure (8), comprising front (9) and rear (10) Concordances with side walls (11) projecting pin cantilever (12), forming a body in bending, box-shaped, slightly larger, corresponding to the arching of the base (2) infrastructure (1). The body 20 superstructure (8) and internally divided by walls (13) of which originate compartments (14) compatible for engaging the side edges (7) taper of the shoulders (4) of the infrastructure (1). Compound Thus, the set of structures will be used in a system whereby the infrastructure (1) is fixed on the arch (A) of the patient's dental and 6/7 simultaneously in related step, when making the prosthesis being envisaged that the material of acrylic resin (A) is shaped to engage in the denture base

(D), the front walls (9), rear (10) and side (11) of the superstructure (8). The involvement and Enhanced by pin 5 of cantilever (12) penetrating the acrylic materials (R) and that made the denture (D) or prosthesis. With the engagement, a cavity is formed in the acrylic resin base so as to expose the compartments (14) of the superstructure (8), which is thus definitively incorporated into the denture (D). 10 As illustrated in Figure 1, after hurricane (F) at predetermined points in the dental arch (A) are preferably four osseointegrated implants (I) distributed at strategic points in the mandible or maxilla of the patient. Then infrastructure (1), as shown in Figure 2, and seated in the holes (5) of its lugs (4) aligned on implants (I) 15 receiving the bolting by bolts (PA), settling definitely. After the fixation of infrastructure (1) the dental arch (A) of the patient, the upper edges (6) and side edges (7) of the lugs (4), light angle, are engaged in full interference to inner walls (13) of the compartments (14) of the superstructure (8) incorporated into the denture (D), 20 causing their effective retention as shown in the following figures 3, 4, 5, 6, 7, 8 and 9. As can be seen, especially the section AA of figure 9, the coupling is of a total interference between the walls (13) and compartments (14) of the body superstructure (8) and the lugs (4) 7/7 Body infrastructure (1), this coupling which, along with the strategic positioning of the implant (I), will lead to stabilization of the denture (D). With this, and promoted a better distribution of the load during chewing movements of the jaw or jaw. The 5 chewing activity not already provoked wear that friction will be made between the structures (1) and (8) of the same metallic nature, avoiding definitely maintenance in dentures (D). 1/2 claims 1 "STRUCTURES SET FOR SYSTEM IMPLANT AND RETENTION DENTURES", characterized by an infrastructure (1) consists of arched base (2) having recesses (3) of which projetam - 5 if projections (4) cast by the holes (5), made from their upper edges (6), which, like the side edges (7) of the projections (4) have angle of inclination inwards giving said infrastructure (1) and conical slightly arcuate configuration, said infrastructure (1) completed by a superstructure (8) composed of front (9) and 10 rear (10) consistent with side walls (11) projecting cantilever pin (12), forming a body in bending box-shaped, slightly larger, corresponding to the arching of the base (2) of the infrastructure (1), said body superstructure (8) being internally divided by walls (13) which originate compartments (14), for compatible engagement of the side edges 15 (7) taper of the shoulders (4) of the infrastructure (1). 2) "Implant System and retention of dentures", according to claim 1, characterized by the front (9), rear (10) and side (11) of the superstructure (8) are enveloped by the material 20 acrylic resin (R), built with the cantilever of its pins (12) in the denture base (D) during molding step of the dental prosthesis, forming, in the latter, a cavity that exposes the compartments (14) and walls (13) of the superstructure (8). 3) "Implant System and retention of dentures" 2/2 according to claims 1 and 2, after hurricane (F) at predetermined points in the dental arch (A) for the osseointegration of implants (I) jaw or in the patient's jaw, be made a fixation, with screws (PA), infrastructure (1), characterized by receiving, by the upper edges (6) and 5 side edges (7) of the projections (4) in light angle, the in full interference engagement of the inner walls (13) of the compartments (14) of supra-structure (8) incorporated into the denture (D). 1/1 SUMMARY "STRUCTURES SET FOR SYSTEM IMPLANT AND RETENTION DENTURES", formed by a metallic structure (called Infrastructure) (1) previously fixed by screws (PA) in 5 slope studied implant (I) already Osseointegrated the gums of the patient, said metallic infrastructure specially configured shaped solid block with recesses (3) and upper edge (2) designed in angle such that it may receive the involvement and engagement by interference from the walls of compartments inner (14) corresponding to a structure 10 also metallic (called super-structure) (8), in turn engaged and previously incorporated by mass of the acrylic resin denture base (prosthesis). The coupling between these components (interference total) and made extremely efficiently, thanks to configuration and also by the material they are made, preventing the release of the denture and giving 15 the necessary stability to chew, besides being avoided already wear the friction by being drawn between two metallic parts of high hardness, and absorbed, avoiding maintenance and substitutions of conventional pieces like rings the ring, clips / clamps, bars, besides the cost reduction. 1/7 "STRUCTURES SET FOR SYSTEM Fixing And DENTURES retention" refers to the present descriptive report, a patent application for a joint formed by a metallic structure to be fixed 5 implant already Osseointegrated The mandible or maxilla of the patient, following the engagement of a second structure, also metallic, which in turn is incorporated in mass of acrylic resin denture base. The fit between the metallic and made by full interference structures, promoting a inedito fixation system and retention of dentures. 10 system proposed by the prosthesis and fixed effectively for safe chewing and mainly avoiding wear (since both structures have the same material) giving you great useful life and no maintenance. The dentures can be removed for oral asepis. state of the art 15 is known and widely used denture implant system, produced in the form of a resin-based acrylic reproducing all the teeth of the original dental arch of the mandible or maxilla, which are fixed to the patient for it regains chewing activity. 20 For this, the surgeon performs the drilling at predetermined points of the dental arch and screw implants (bases) in the bone fixed through a torque device. In a known system, after osseointegration stage the surgeon fixed an prosthesis support bar on the implants and, through clips or clamps Teflon, fixed denture in 2/7 arcade. In another known system on the implants also already osseointegrados, are set rings o'ring for the retention of the prosthesis. It turns out that these types of conventional fixation for dentures, although five of its satisfactory functionality require maintenance to exchange clamps or rings, for wear and great given friction caused by the difference of materials such as Teflon (clips) and rubber (rings O-ring) on the metallic parts (implants). In addition to the perceived need for periodic maintenance, these conventional systems, for receiving the prosthesis anchored in 10 • certain points (where the implants are inserted), may not provide the desired stability for chewing, in addition to bringing some difficulty in their removal and spare by the User when the cleaning and oral sterilization. PURPOSE OF PATENT 15 The set in question solves these problems through a metallic structure (called Infrastructure) previously fixed by screws on tilt studied on the already implants osseointegrated the gums of the patient, said metallic infrastructure specially configured shaped solid block with recesses and the upper edge projected onto 20 angle such that it may receive the engagement and locking by interference of the walls of corresponding internal compartments of a structure also metallic (called super-structure) in turn previously incorporated and surrounded by the resin mass in the acrylic denture base (prosthesis). 3/7 For the configuration of the structures and the material they are made, the coupling between these components to total interference and done extremely effectively preventing loosening of teeth and giving the stability needed to chew, besides being avoided already wear that friction, being 5 caused between two metallic parts of high hardness, and absorbed. The proposed system avoids maintenance and substitutions of conventional parts as o'ring rings, clips / clamps, bars, besides the cost reduction. The withdrawal for maintenance and easier because it only takes a manual fountain denture by the User, which allows you to keep perfect aseptic 10 oral, followed by after cleaning, the new natural fit for interference between the metallic structures. Explained superficially pass the set of metallic structures and the system that involve, to be detailed better through the accompanying drawings, in which are seen: 15 Figure 1 - Perspective view (schematic) of a dental arch already with hurricane the bone to receive the fixation of the implants by torque. As shown on the implants will be seated infrastructure with its hurricane aligned to receive the fixation screws. On the infrastructure, and mentioned coupling direction of the superstructure, which is shown in 20 sequential views in perspective. For a better understanding of the system, the superstructure not incorporated into this base acrylic resin prosthesis (denture). The following figures, related 2-5 show the sequence of fixation of the dental arch infrastructure, to later receive 4/7 coupling the superstructure. For a better understanding, the supra-structure not this incorporated into acrylic resin base prosthesis (denture): Figure 2 - Perspective view showing the already dental implants from the hurricane bone of the patient arcade; 5 Figure 3 - view following previous figure, showing the infrastructure already fixed by screws in the implants of the dental arch of the patient, ready to receive the coupling of the superstructure; Figure 4 - viewed in the preceding figure, showing the superstructure already involving the walls of their compartments 10 in engagement by interference, the infrastructure; Figure 5. - Viewed in the preceding figure, showing the superstructure already engaged in interference fit, the infrastructure The figures listed below, from 6 to 8 show the built superstructure the basis of the mass of acrylic resin denture (prosthesis): 15 Figure 6 - View in perspective of the incorporated superstructure base denture, showing its direction of engagement infrastructure in turn already fixed on the implants, the dental arch of the patient; Figure 7 - denture perspective view before coupling the infrastructure, in the dental arch of the patient; 20 Figure 8 - View according to the previous figure, showing the denture already fixed in interference fit, according to the proposed system . The following figure shows, in court, the coupling according to the proposed system. 9 - Views in partial cut AA, showing the coupling 5/7 interference through the walls of the superstructure compartments recesses and slightly conical edges and tilt inward infrastructure . In accordance with the accompanying drawings, the "SET 5 STRUCTURES FOR Fixing SYSTEM AND RETENTION DENTURES" object that this application for patent, is made up from a first metallic structure or infrastructure (1) conformation compatible jaw and / or the patient's jaw, comprises an arcuate base (2) provided with recesses (3), which protrude 10 projections (4) cast by the holes (5), made to from their top edges (6). Both the upper edges (6) and the side edges (7) of the projections (4) have angulation slope inward, giving infrastructure (1) slightly conical configuration besides obviously be curved so as to follow the anatomy of dental arch of the patient. 15 The infrastructure (1) and completed by a second metallic structure or superstructure (8), comprising front (9) and rear (10) Concordances with side walls (11) projecting pin cantilever (12), forming a body in bending, box-shaped, slightly larger, corresponding to the arching of the base (2) infrastructure (1). The body 20 superstructure (8) and internally divided by walls (13) of which originate compartments (14) compatible for engaging the side edges (7) taper of the shoulders (4) of the infra-estruera (1). Compound Thus, the set of structures will be used in a system whereby the infrastructure (1) is fixed on the arch (A) of the patient's dental and 6/7 simultaneously in related step, when making the prosthesis being envisaged that the material of acrylic resin (A) is shaped to engage in the denture base (D), the front walls (9), rear (10) and side (11) of the

superstructure (8). The involvement and Enhanced by pin 5 of cantilever (12) penetrating the acrylic materials (R) and that made the denture (D) or prosthesis. With the engagement, a cavity is formed in the acrylic resin base so as to expose the compartments (14) of the superstructure (8), which is thus definitively incorporated into the denture (D). 10 As illustrated in Figure 1, after hurricane (F) at predetermined points in the dental arch (A) are preferably four osseointegrated implants (I) distributed at strategic points in the mandible or maxilla of the patient. Then infrastructure (1), as shown in Figure 2, and seated in the holes (5) of its lugs (4) aligned on implants (I) 15 receiving the bolting by bolts (PA), settling definitely. After the fixation of infrastructure (1) the dental arch (A) of the patient, the upper edges (6) and side edges (7) of the lugs (4), light angle, are engaged in full interference to inner walls (13) of the compartments (14) of the superstructure (8) incorporated into the denture (D), 20 causing their effective retention as shown in the following figures 3, 4, 5, 6, 7, 8 and 9. As can be seen, especially the section AA of figure 9, the coupling is of a total interference between the walls (13) and compartments (14) of the body superstructure (8) and the lugs (4) 7/7 Body infrastructure (1), this coupling which, along with the strategic positioning of the implant (I), will lead to stabilization of the denture (D). With this, and promoted a better distribution of the load during chewing movements of the jaw or jaw. The 5 chewing activity not already provoked wear that friction will be made between the structures (1) and (8) of the same metallic nature, avoiding definitely maintenance in dentures (D). 1/2 claims 1) "STRUCTURES SET FOR SYSTEM IMPLANT AND RETENTION DENTURES", characterized by an infrastructure (1) consists of arched base (2) having recesses (3) of which projetam- 5 if projections (4) cast by the holes (5), made from their upper edges (6), which, like the side edges (7) of the projections (4) have angle of inclination inwards giving said infrastructure (1) and conical slightly arcuate configuration, said infrastructure (1) completed by a superstructure (8) composed of front (9) and 10 rear (10) Concordances with side walls (11) projecting cantilever pin (12), forming a body in bending box-shaped, slightly larger, corresponding to the arching of the base (2) of the infrastructure (1), said body superstructure (8) being internally divided by walls (13) which originate compartments (14), for compatible engagement of the side edges 15 (7) taper of the shoulders (4) of the infrastructure (1). 2) "Implant System and retention of dentures", according to claim 1, characterized by the front (9), rear (10) and side (11) of the superstructure (8) are enveloped by the material 20 acrylic resin (R), built with the cantilever of its pins (12) in the denture base (D) during molding step of the dental prosthesis, forming, in the latter, a cavity that exposes the compartments (14) and walls (13) of the superstructure (8). 3) "Implant System and retention of dentures" 2/2 according to claims 1 and 2, after hurricane (F) at predetermined points in the dental arch (A) for the osseointegration of implants (I) jaw or in the patient's jaw, be made a fixation, with screws (PA), infrastructure (1), characterized by receiving, by the upper edges (6) and 5 side edges (7) of the projections (4) in light angle, the in full interference engagement of the inner walls (13) of the compartments (14) of supra-structure (8) incorporated into the denture (D). ABSTRACT "SET OF STRUCTURES FOR SYSTEM IMPLANT AND RETENTION OF DENTURES", formed by a metallic structure (called Infrastructure) (1) previously fixed by screws (PA) in slope studied implant (I) already Osseointegrated the gum of the patient, said metallic infrastructure specially configured shaped solid block with recesses (3) and upper edge (2) designed in angle such that it may receive the involvement and engagement by interference from the walls of internal compartments (14) also a corresponding metallic structure (called super-structure) (8), previously incorporated and in turn surrounded by the resin mass in the acrylic denture base (prosthesis). The coupling between these components (by total interference) and done extremely efficiently, thanks to configuration and also by the material they are made, preventing the release of the denture and giving the stability needed to chew, besides being prevented wear since it friction, by being drawn between two metallic parts of high hardness, and absorbed, avoiding maintenance and substitutions of conventional parts as o'ring rings, clips / clamps, bars, besides the cost reduction.

Classifications:

International (IPC 8-9): A61C13/10 A61C13/225
A61C8/00 (Advanced/Invention);
A61C13/00 A61C13/225 A61C8/00 (Core/Invention)



Family:

Publication number	Publication date	Application number	Application date
BRPI0902322 A2	20100629	BR2009PI02322	20090710

Priority:

BR2009PI02322 20090710

Probable Assignee: MURAKAMI JORGE MITSUO
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Assignee(s): JORGE MITSUO MURAKAMI
Inventor(s): (std): MURAKAMI JORGE MITSUO
Inventor(s): JORGE MITSUO MURAKAMI

9) Family number: 55706590 (US2015182312A)

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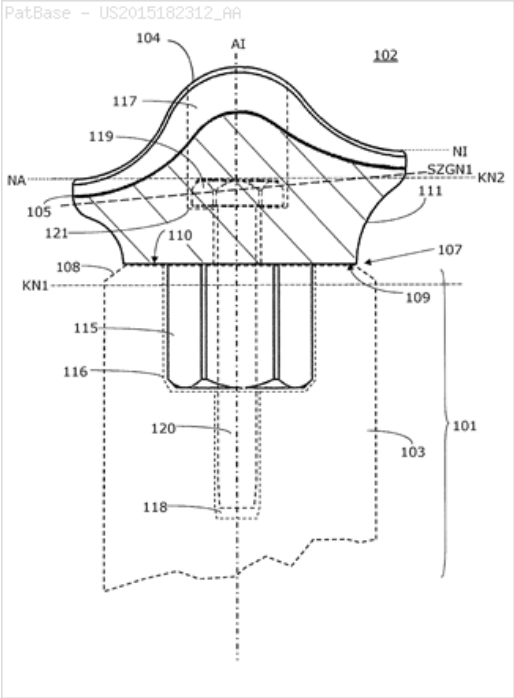
Title: ABUTMENT SYSTEM FOR IMMEDIATE IMPLANTS FOR PRODUCING A DENTAL PROSTHESIS

Abstract: The invention relates to an abutment system (200) for use in the area of the front teeth and premolars, with an

abutment base (102) which comprises a first interface (107) for placement on an implant and a second interface (123) for fixing a crown or suprastructure. The abutment base (102) has a scalloped top side (104) and the implant defines an implant axis (AI). The abutment base (102) has a three-dimensional shape which is designed asymmetrically relative to the implant axis (AI). Moreover, it has a lateral surface region (111) which has a concave shape when viewed in a vertical section. Additionally, the abutment system (200) comprises a separate prosthetic post (210) which can be fixed in the area of the scalloped top side (104) of the abutment base (102), wherein the prosthetic post (210) extends coaxially to the implant axis (AI) when fixed.

Classifications:

International (IPC 8-9): A61C8/00 (Advanced/Invention)
CPC: A61C8/005 A61C8/0077 A61C8/0022 A61C8/0066 A61C8/0074
US: 433/174 433/201.1



Family:

Publication number	Publication date	Application number	Application date
EP2874563 A1	20150527	EP20130739441	20130722
US2015182312 AA	20150702	US20130416485	20130722
US9877809 BB	20180130	US20130416485	20130722
WO14016244 A1	20140130	WO2013EP65406	20130722

Priority:

EP20120177460 20120723 EP20130739441 20130722 WO2013EP65406 20130722

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Inventor(s): (std): PAUL STEFAN ; HANISCH OLIVER

Agent(s): OK PAT AG; GREENBLUM AND BERNSTEIN PLC; HEUSCH CHRISTIAN

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW 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

10) Family number: 59022683 (US2016250003A)

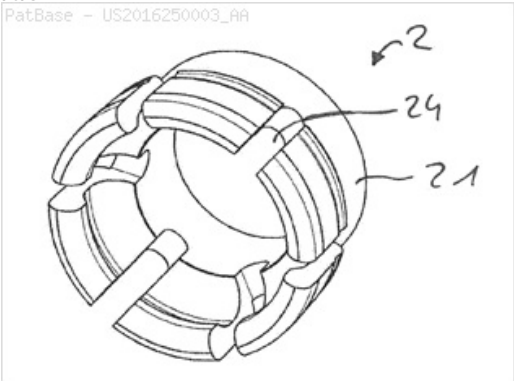
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Title: RETENTION DIE AND DENTAL IMPLANT SYSTEM

Abstract: The invention relates to an apparatus for releasable attachment of a removable dental prosthesis to a head part of an implant or of an abutment that can be anchored in an implant, comprising a retention matrix (1) having a receptacle that accommodates a circular-ring-shaped retention element (2) that has at least two clamping arms (22), which is disposed so as to be displaceable along a center axis of the retention matrix (1), wherein the at least two clamping arms (22) form a mantle surface that widens conically toward the outside, and that the receptacle for the retainer element (2) has two sections (14, 15) having a different inside diameter, against the transition of which the at least two clamping arms (22) lie. The invention furthermore relates to a dental implant system, having such an apparatus.

Classifications:

International (IPC 8-9): A61C A61C13/265
A61C8/00 (Advanced/Invention);
A61C13/265 (Advanced/Non-invention);
A61C (Subclass/Invention)
CPC: A61C8/0062 A61C8/0054 A61C8/0069 A61C8/0012
A61C8/0048 A61C8/006 A61C13/2656
US: 1/1 433/173



Family:

Publication number	Publication date	Application number	Application date
CN105848608 A	20160810	CN201480056994	20140930
CN105848608 B	20180413	CN201480056994	20140930
DE502013003119 D1	20160707	DE201350003119T	20131015
EP2862542 A1	20150422	EP20130188761	20131015
EP2862542 B1	20160525	EP20130188761	20131015
IL245086 A0	20160630	IL20140245086	20140930
JP2016537066 T2	20161201	JP20160524076T	20140930
JP6440703 B2	20181219	JP20160524076T	20140930
KR20160072150 A	20160622	KR20167012325	20140930
PL2862542 T3	20161031	PL20130188761T	20131015
US2016250003 AA	20160901	US20140028642	20140930
US9788921 BB	20171017	US20140028642	20140930
WO15055423 A1	20150423	WO2014EP70932	20140930

Priority:

EP20130188761 20131015 WO2014EP70932 20140930

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

11) Family number: 8468804 (US5554027A)

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Title: Prosthesis system for replacing teeth

Abstract: A prosthesis system for replacing two or more adjacent teeth comprises prefabricated elements for fixing to the lower or upper jaw of a patient. The prefabricated elements include an arcuate bridge base, two or more substantially rotationally symmetric spacer elements, and, for each spacer element, a respective fixture or screw implantable in the jawbone. The system further includes an arcuate dental bridge comprising teeth, and an arcuate profile element supporting the teeth. On its underside the profile element has a groove or channel to receive the bridge base. Each implantable fixture or screw has a screw-threaded bore extending from its outer end for reception of a corresponding screw-threaded shank at one end of the respective spacer element. The bridge base has bores therein to receive fitting portions of the spacer elements and the bridge base is secured to the spacer elements by adhesive and/or by securing screws or nuts. Screws extending through transverse bores in the base and the side walls of the profile element secure the dental bridge to the bridge base. The prosthesis is provided with damping between the bridge and the bridge base.

Classifications:

International (IPC 8-9): A61C13/225 A61C8/00 (Advanced/Invention);

A61C13/225 (Advanced/Non-invention);

A61C13/225 A61C8/00 (Core/Invention)

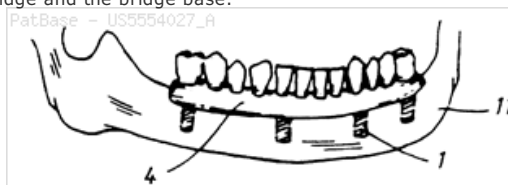
International (IPC 1-7): A61C13/01 A61C13/22 A61C13/225

A61C13/26 A61C8/00

CPC: A61C8/0048

European: A61C8/00G

US: 433/169 433/172 433/173

**Family:**

Publication number	Publication date	Application number	Application date
AT167619 E	19980715	AT19940850066T	19940426
AU199460732 A1	19941103	AU19940060732	19940427
AU683871 B2	19971127	AU19940060732	19940427
CA2122231 AA	19941029	CA19942122231	19940426
CA2122231 C	20050621	CA19942122231	19940426
DE59406304 D1	19980730	DE19945006304	19940426
DK0622053 T3	19990406	DK19940850066T	19940426
EP0622053 A2	19941102	EP19940850066	19940426
EP0622053 A3	19950412	EP19940850066	19940426
EP0622053 B1	19980624	EP19940850066	19940426
ES2119138 T3	19981001	ES19940850066T	19940426
JP6311989 A2	19941108	JP19940089485	19940427
SE500851 C2	19940919	SE19930001424	19930428
SE9301424 A	19940919	SE19930001424D	19930428
SE9301424 A0	19930428	SE19930001424	19930428
SE9301424 L	19940919	SE19930001424	19930428
US5554027 A	19960910	US19940234052	19940428

Priority:

SE19930001424 19930428

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Inventor(s): PER INGVAR BRANEMARK ; PER INGVAR BRAANEMARK ; BRANEMARK PER INGVAR S 431 69 MOELNDAL SE
Agent(s): GRIFFITH HACK
Designated states: AT BE CH DE DK ES FR GB GR IE IT LI LU MC NL PT SE

12) Family number: 48531895 (WO11036268A2)

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Title: DENTAL PROSTHESIS SYSTEM

Abstract: The dental prosthesis system (1) comprises an enossal implant body (2) for anchoring the dental prosthesis system (1) in a jaw bone. The implant body (2) comprises an inner bore (21), in which a threaded sleeve (3) is positively anchored by way of locking means (4) attached in the implant body inner bore (21). An abutment (5), which comprises an inner abutment bore (51), is used to receive a suprastructure. A cap screw (6) connects the abutment (5) to the implant body (2), wherein a head (61) of the cap screw (6) is supported in the inner abutment bore (51) and a threaded part (62) of the cap screw (6) engages with the threaded sleeve (3). The connection between the implant body and the abutment is reversible, and the dental prosthesis system (1) can still be designed so as to be free of metal.

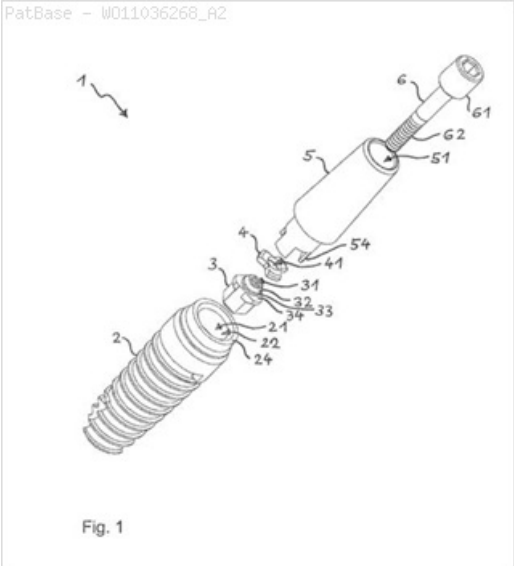
Classifications:

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

CPC: A61C8/005 A61C8/0063

European: A61C8/00G1 A61C8/00G1L

PatBase - WO11036268_A2



Family:

Publication number	Publication date	Application number	Application date
CH701860 A1	20110331	CH20090001473	20090924
DE502010005910 D1	20140220	DE201050005910T	20100924
EP2480161 A2	20120801	EP20100763165	20100924
EP2480161 B1	20140108	EP20100763165	20100924
WO11036268 A2	20110331	WO2010EP64180	20100924
WO11036268 A3	20110707	WO2010EP64180	20100924

Priority:

CH20090001473 20090924 EP20100763165 20100924 WO2010EP64180 20100924

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Agent(s): ZEUNER SUMMERER STUETZ PATENT U RECHTSANWALT PART MBB; RENTSCH PARTNER AG; RENTSCH AND PARTNER

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

13) Family number: 41677930 (DE102006042919B3)

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Title: JAW IMPLANT SYSTEM, HAS TEMPORARY ABUTMENT WITH TWO PARTS, WHICH ARE FIXABLE IN DIFFERENT ANGLE POSITIONS, AND ARE CONNECTABLE WITH EACH OTHER, AND ANOTHER ABUTMENT WITH AREA CEMENTED IN IMPLANT AND INSERTABLE INTO IMPLANT

Abstract: The system has an implant (1) implantable in a jaw (2), and an abutment extending to the implant. The temporary abutment has two parts, which are fixable in different angle positions, and are connectable with each other. Another abutment has an area cemented in the implant and insertable into the implant. The two parts are adjustable against each other, where one of the two parts is made of a dissolvable or burnable material. An independent claim is also included for a method for manufacturing a dental prosthesis.

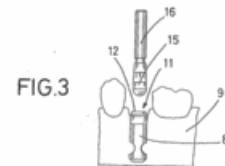
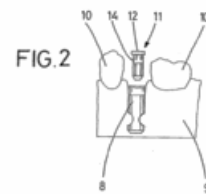
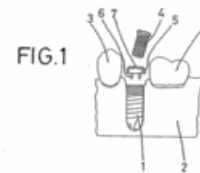
Classifications:

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

CPC: A61C8/0001 A61C8/005 A61C8/006 A61C8/0066 A61C8/0069

European: A61C8/00B A61C8/00G1 A61C8/00G1P A61C8/00G1T

K61C8/00G1H K61C8/00G1T



13/19

Family:

Publication number	Publication date	Application number	Application date
DE102006042919 B3	20080410	DE200610042919	20060913

Priority:

DE200610041407 20060901 DE200610042919 20060913

Probable Assignee:

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Assignee(s): (std):

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Inventor(s): (std):

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