

SUPERINTENDENCIA DE INDUSTRIA Y COMERCIO	
RAD: 13-138106- -13	FECHA: 2016-02-16 11:56:16
DEP: 2020 DIRECCION DE NUEVAS CREACIONES	EVE: 1 REGISTRO/DEPOSITO/CONCESION/DEPOSITO
TRA: 2 PATENTES DE INVENCION	FOLIOS: 7
ACT: 519 TRASLADOINFORME	

DIRECCIÓN DE NUEVAS CREACIONES

2020
Bogotá, D.C.,

Abogado(a)/Señor(a)
FELIPE EDUARDO FIGUEROA CARDOZO

Asunto: Radicación: 13-138106- -13
 Trámite: 2
 Evento: 1
 Actuación: 519
 Oficio: 1589
 Folios: 7

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. N° 13-138106-00000-0000	07/Junio/2013
Reivindicaciones:	Rad. N° 13-138106-00000-0000	07/Junio/2013
Dibujos:	Rad. N° 13-138106-00000-0000	07/Junio/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 estudiarán las reivindicaciones 1 a 3.

Título de la solicitud: “Regleta para determinación de distorsión (magnificación o minimización) en radiografía panorámica convencional” (Ver página 2 del radicado bajo el N° 13-138106-00000-0000).

El problema planteado en esta solicitud consiste en proporcionar una solución de diagnóstico médico para tratamiento maxilofacial y zonas de corrección de los huesos

del rostro, reduciendo los errores de procedimiento por malos diagnósticos o cálculos de fisionomía en dos dimensiones.

Para resolver este problema técnico, la solicitud en estudio proporciona una regleta en acrílico que presenta una graduación por cuadrantes correspondientes a las zonas craneanas de un paciente, y en donde presenta unos factores de graduación por dichas zonas.

El objeto de la presente solicitud se relaciona con la Clasificación Internacional de Patentes (CIP): G01B 3/00; A61B 6/00.

3. De la solicitud de patente

Reivindicaciones (Art 30 D 486, Art 22 PCT)

La reivindicación 1 no es clara porque:

- En la reivindicación 1 se reclama: “*se delimitan cuatro planos I, II, I', II' “ y “equidistante del plano B”* encontrándose que I, II, I', II' y B son ejes, por lo tanto no es viable reclamarlos como planos.
- En cuanto a la característica reclamada como “*valores de porcentajes de distorsión*” se observa que dichos valores se encuentran escritos en cada una de las regiones definidas por los ejes I, II, I', II'. Los “*valores de porcentajes*” que se reclaman, al ser información presentada sobre la plantilla, no son una característica técnica que defina la invención, debido a que no se puede caracterizar una invención por información de valores escritos sobre un sustrato, ya que esto hace referencia a una presentación de información. Es importante tener en cuenta que la definición de característica técnica de una invención, hace referencia a una característica tangible de un elemento estructural que haga parte de un dispositivo o máquina. Por lo tanto, los valores de porcentajes escritos sobre la plantilla, al no ser una característica aceptable de la invención, no pueden ser parte de las características que definan la plantilla reclamada y por esto no son parte de la materia que deba ser comparada con lo perteneciente al estado de la técnica para determinar la novedad o el nivel inventivo de la solicitud.

Descripción (Art 28 D 486)

- Las figuras por ser parte de la descripción de la invención tienen como objetivo aclarar y especificar características técnicas de la regleta revelada, por lo tanto, dichas figuras deben de enseñar los elementos que componen la invención y ser presentadas libres de textos e información escrita, indicando con números de referencia relacionados en la descripción los diferentes elementos definidos que componen la invención.
- Por lo anterior se sugiere que las figuras se relacionen con la descripción por medio de números de referencia, asignándole un número de referencia a cada elemento que compone la invención y de los cuales se requiera hacer una descripción, siendo dichos elementos objetos definidos, tales como ejes y zonas determinadas por elementos específicos que las delimiten.
- Se encuentra importante aclarar que se considera como una característica aceptable de la invención, la dimensión de una distancia definida entre dos elementos que hagan parte de la invención. Por lo tanto, se sugiere que en el caso de ser necesario definir una distancia o dimensión entre dos objetos que hagan parte de la invención, dicha dimensión se defina por una línea de referencia o mediante dos puntos de

referencia entre los cuales quede definida dicha dimensión. Dicha línea o puntos de referencia deben de estar claramente representados en las figuras y relacionados por medio de números de referencia a la descripción. En el presente caso, representar en las figuras nuevas líneas o puntos de referencia para definir una dimensión no implicaría ampliación de la materia inicialmente presentada, siempre y cuando sean para referenciar la distancia o dimensión de elementos que hayan sido divulgados en la descripción inicialmente revelada.

- Se recomienda que se aclare el efecto técnico que producen los diferentes ejes y zonas que componen la invención, así como el efecto técnico que produce la disposición de dichos elementos. Lo anterior no incurre en ampliación de la materia inicialmente presentada, siempre y cuando no se adicionen nuevos elementos a la invención, y se complementa información únicamente de elementos que fueron revelados en la solicitud inicial.
- A continuación se presenta, a manera de ejemplo, una figura típica que contiene números de referencia para designar ejes o elementos (2), (4), (5), (8), zonas o regiones (7), (9), distancia (6) entre dos ejes o elementos, puntos de referencia (1), (3), (12), (14), (15) y elementos (11), (13).

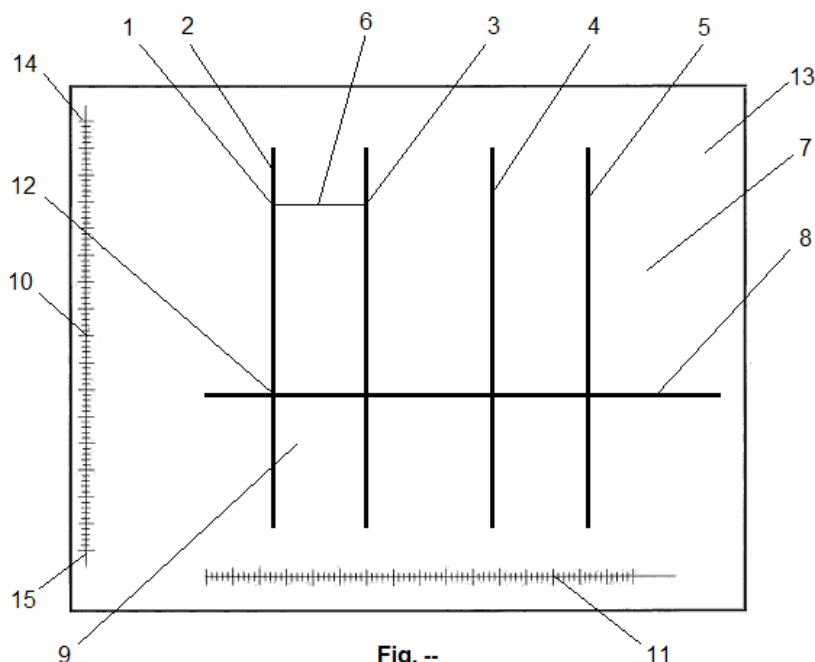


Fig. --

4. 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: 07 de junio de 2013, y se encontró el siguiente documento que anticipa el objeto de esta solicitud:

Ítem	Documento	Título	Fecha de Publicación
D2	JP 2012239700	"Dental rule"	10/Diciembre/2012
D3	Art. 1*	"La película radiográfica, pantalla de refuerzo y chasis radiográfico"	20/Agosto/2012

*Laura Álvarez González, Agosto 20 de 2012, 41 Páginas, La película radiográfica, pantalla de refuerzo y chasis radiográfico.

El documento D2¹ divulga un dispositivo para para llevar a cabo fácilmente el trabajo de determinar un punto de referencia en la preparación de una prótesis utilizando una regla. En la figura 2 se muestra una parte de la relación de posición promedio de

¹[http://worldwide.espacenet.com/publicationDetails/biblio?](http://worldwide.espacenet.com/publicationDetails/biblio?DB=EPODOC&II=0&ND=3&adjacent=true&locale=en_EP&FT=D&date=20121210&CC=JP&NR=2012239700A&KC=A)

[DB=EPODOC&II=0&ND=3&adjacent=true&locale=en_EP&FT=D&date=20121210&CC=JP&NR=2012239700A&KC=A](http://worldwide.espacenet.com/publicationDetails/biblio?DB=EPODOC&II=0&ND=3&adjacent=true&locale=en_EP&FT=D&date=20121210&CC=JP&NR=2012239700A&KC=A)

dientes humanos, la figura 3 sirve para confirmar el derecho y la simetría izquierda de una fila de dientes sobre una placa plana poligonal en perspectiva. Un lado de referencia (14) sirve para determinar el punto de referencia para la formación de la prótesis según una esquina de la placa plana (1) (Fl. 1, Resumen).

El documento D3² divulga un escrito en el cual se presentan las medidas y materiales comúnmente usadas en las placas radiográficas de panorámica dental (Fl. 14, Pág. 13, líneas 17 a 19).

5. Examen de Patentabilidad (Art 14 D486)

Novedad (Art 16 D486)

La reivindicación 1 consiste en una “Regleta para cuantificar el grado de distorsión...” (Ver página 21 del radicado N° 13-138106-00000-0000).

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

Características esenciales	D2
Regleta compuesta por dos ejes cartesianos de medición.	Regleta que contiene dos ejes cartesianos de medición (Fl. 9, Fig. 1).
Sobre dichos ejes cartesianos se delimitan cuatro planos.	Sobre dichos ejes cartesianos se definen cuatro ejes (Fl. 9, Fig. 1).
Quedando delimitadas la región mediana, intermedias y laterales derecha e izquierda.	Quedando delimitadas regiones medias, intermedia y lateral a la izquierda y derecha (Fl. 9, Fig. 1).
Dichas regiones definen y delimitan diez cuadrantes de arriba abajo y de derecha a izquierda.	Dichas regiones definen y delimitan diez cuadrantes de arriba abajo y de derecha a izquierda (Fl. 9, Fig. 1).

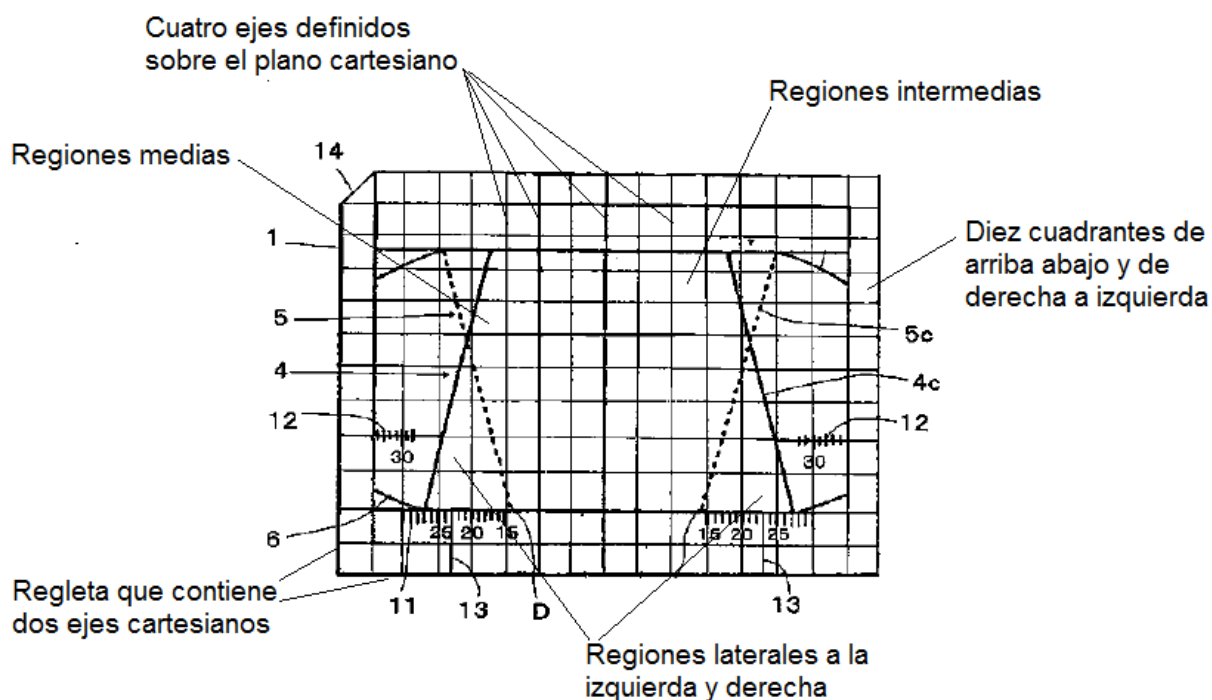


Figura 1 del documento D2

De acuerdo con la tabla anterior donde se comparan las características técnicas de la reivindicación 1 con la anterioridad D2, se concluye que la regleta reclamada en la

² <https://librossanitarios.files.wordpress.com/2012/12/la-pelc3adcula-radiogrc3a1fica-pantalla-de-refuerzo-y-chasis-radiogrc3a1fico.pdf>

reivindicación 1, ya era conocida en el estado de la técnica como se evidencia con la anterioridad encontrada. Por lo tanto la reivindicación 1 carece de novedad.

Nivel inventivo (Art 18 D486)

La reivindicación 2 consiste en *“Regleta para cuantificar el grado de distorsión (magnificación o minimización) que presentan las imágenes...”* (Ver página 21 del radicado N° 13-138106-00000-0000).

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

Características esenciales	D2	D3
Regleta compuesta por dos ejes cartesianos de medición.	Regleta que contiene dos ejes cartesianos de medición (Fl. 9, Fig. 1).	No menciona.
La regleta tiene un Ancho de 15 cm y longitud de 30 cm.	No menciona.	Placa radiográfica de 13 cm de ancho y 30 cm de longitud (Fl. 14, Pág. 13, líneas 17 a 19).

El documento D2 se considera el estado de la técnica cercano a la invención definida en la reivindicación 2 porque divulga una regleta que contiene dos ejes cartesianos de medición sobre los cuales se definen varios ejes y regiones, siendo utilizada dicha regleta en la preparación de una prótesis (Fl. 1, Resumen).

La diferencia entre la regleta reclamada en la reivindicación 2 y la regleta enseñada en el documento D2, consiste en que D2 no divulga las dimensiones de 15 cm de ancho y 30 cm de largo en la regleta.

Por lo tanto, el problema técnico objetivo que se pretende resolver mediante la materia reclamada en la reivindicación 2 se puede formular así: ¿Cómo obtener una regleta para ser usada en placas radiográficas que tenga un largo de 15 cm y un ancho de 30 cm?

En la presente solicitud se está restringiendo la regleta reclamada a un ancho 15 cm, una longitud de 30 cm, pero dentro de la descripción no hay ejemplos ni modalidades que demuestren el efecto técnico que es aportado por dicha restricción de dimensiones. De lo anterior se observa que lo que se está buscando es una alternativa a la regleta divulgada en el documento D2.

Por otra parte, el documento D3 divulga que las dimensiones conocidas y más utilizadas en películas dentales panorámicas es de 13 cm por 30 cm (Fl. 14, Pág. 13, líneas 17 a 19).

Se denota obviedad en la materia recamada en la reivindicación 2, debido a que la persona del oficio normalmente versada en la materia en el diario realizar de sus labores relacionadas con la lectura de placas radiográficas, ajustaría la regleta a las dimensiones de la placa radiográfica estándar que se revela en la el documento D3, llegando así a una regleta de las dimensiones reclamadas, por lo que se considera obvia esta solución.

Asimismo, el documento D3 divulga las características de la reivindicación dependiente 3 de la siguiente manera:

- Reivindicación 3: Posteriormente el nitrato de celulosa fue sustituido por triacetato de celulosa y a partir del año 1.960 se comenzó a fabricar la base de poliéster y la principal ventaja era su mayor estabilidad y dureza y su dificultad para la combustión. (Fl. 8, Pág. 7, líneas 15 a 19).

6. Conclusión

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

Ítem	Documento	Reivindicaciones afectadas	Requisito que afecta
D2	JP 2012239700	1	Novedad/Nivel Inventivo
D2	JP 2012239700	2, 3	Nivel Inventivo
D3	Art.1	2, 3	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 2016-02-23

Elaboró: Jesus Alejandro Velasquez Salgado
Revisó: Angelica Maria Ramirez

jesusvelasquez

Search history

- Search 1: TAC=(water and filter and portable and device and electrode and purification and valve not UV) (Results 5)
- Search 2: TAC=(water and filter and portable and device and electromagnet* and bobine) (Results 3)
- Search 3: TAC=(water and filter and portable and electromagnet* and bobin*) (Results 6)
- Search 4: PN=(wo2013/104779) (Results 1)
- Search 5: [SP]: background [0001] the present subject matter relates to a wind turbine rotor and a wind turbine comprising such a wind turbine rotor[0002] in a commonly known wind turbine, a plurality of blades is mounted to a hub which is connected to a generator system for generating electricity based on the rotational power caused by wind energy exerted on the blade. in the commonly known wind turbine installations, the hub is rotatably mounted with the axis being aligned substantially horizontally which installation is referred to as horizontal wind turbine. in such commonly known horizontal wind turbines, wind turbine rotors are employed in which a blade pitch angle can be adjusted so that a predetermined rotation speed is obtained in accordance with specific wind conditions.[0003] in recent years, the length of wind turbine blades has increased in order to provide wind turbine installations with an output of as much as 1 mw(el) or more in a single turbine. consequently, specific restrictions relating to the transportation of elements of such wind turbine installations are introduced. however, large wind turbine installations provide an increased output, an enhanced efficiency and, besides others, several economic improvements.[0004] conventional rotor systems employ rotatable supports for the blades in order to adjust the pitch of the blades to current wind conditions. as the complete blade is designed as rotatable element, this support is located close to the hub. for such a support, bearings are used which are adapted to transmit the bending torque of the blade to the hub. in commonly known arrangements, the bearing is formed as compact assembly for mounting this assembly in the designated space which is limited in such known arrangements. summary [0005] the present subject matter relates to a wind turbine rotor which provides the advantages of large-scale wind turbines while the restrictions regarding the transportation of the elements of such a wind turbine rotor are reduced.[0006] further, the present subject matter relates to an improved arrangement for adjusting the pitch of a blade mounted to the wind turbine rotor which is easily mountable and which provides an enhanced safety in particular in situations with high wind speeds.[0007] according to the basic concept of the present subject matter, a wind turbine rotor comprises a hub and at least one blade which is connected to the hub. according to the subject matter, the blade comprises a first blade section and a second blade section. the first blade section is mounted to the hub stationary with respect to the hub, wherein the second blade section is supported by the first blade section rotatably adjustable about a longitudinal axis of the blade. the second blade section is supported by the first blade section by at least two bearings which are spaced with respect to the longitudinal axis of the blade.[0008] the blades of the wind turbine rotor which are designed for a high specific rated output power comprise a predetermined length in the radial direction of the wind turbine rotor when mounted. consequently, reducing the total length of such a blade is not reasonable as the rated output power of such a wind turbine installation is reduced at the same time.[0009] that is, the total length of the blade of the wind turbine rotor according to the subject matter is determined by sum of the length of the first blade section which is mounted to the hub and the length of the second blade section which is supported by the first blade section. consequently, the second blade section is shorter than the total length of the entire blade such that the second blade section can be easily transported on the road or railway. the support of the second blade section by the first blade section using at least two bearings which are spaced with respect to the longitudinal axis of the blade enhances the stability of the rotatable support while simplifying the design of the bearings and related elements, such as bearing mounts.[0010] according to an embodiment of the present subject matter, the first blade section extends substantially in the radial direction of the wind turbine rotor and the second blade section forms an extension at the radial end of the first blade section and substantially extends in the radial direction of the wind turbine rotor. based on such an arrangement, a blade with a total length can be provided which meets the predetermined conditions of the wind turbine installation design.[0011] according to yet another embodiment of the present subject matter, the first blade section forms a cover and/or mount for a support structure rotatably supporting the second blade section. a rotatable support for the second blade section enables a pitch control in order to adapt the operational conditions of the wind turbine rotor to the current wind conditions which are subject to fluctuations. according to the concept of the present subject matter, the first blade section is not rotatable, while the second blade section which is rotatably supported by the first blade section can be rotated for adjusting a pitch of at least a part of the entire blade.[0012] according to yet another embodiment of the present subject matter, the support structure comprises a shaft mounted to a radial inner end of the second blade section and said at least two bearings rotatably supporting the shaft. according to the concept of the present subject matter, the shaft supports the second blade section which is mounted in said at least two bearings. according to the present subject matter, said at least two bearings provides a support of the shaft at locations which are spaced in the radial direction of said wind turbine rotor, in particular, in the axial direction of said shaft. the shaft can be manufactured in a simple way and can be held by said at least two bearings in order to provide a sufficient stability providing the capability of transferring a moment to the hub to be converted into the rotation of the hub.[0013] according to yet another embodiment of the present subject matter, one of said at least two bearings is arranged at or close to the radially outer end of the first blade section and the other of said at least two bearings is arranged at or close to the radially inner end of the first blade section.[0014] according to yet another embodiment of the present subject matter, each of said at least two bearings is mounted in a bearing mount. specific bearing mounts can be adapted to the predetermined shape or construction of the bearings which are employed for supporting the shaft.[0015] according to yet another embodiment of the present subject matter, each of the bearing mounts is formed as plate member or at least partly as plate member with its surface forming the main surface being arranged substantially perpendicular with respect to the radial direction of the wind turbine rotor, wherein each of the bearing mounts is provided with at least one manhole for maintenance and/or installation works. due to the fact that the support structure includes elements which are subject to maintenance, the arrangement employing plate members as bearing mounts and providing at least one manhole in each plate member enables required maintenance work to be performed in the area of the first blade section, in particular, inside the first blade section, which includes multiple mechanical arrangements. further, the installation of the wind turbine rotor is simplified by providing such manholes for transporting the elements of the rotor inside the first blade section through the manholes.[0016] according to yet another embodiment of the present subject matter, the first blade section is formed as hollow member which is fixedly connected to the hub and encloses the support structure inside said hollow member such that said support structure is arranged outside the hub. such an arrangement enables a simplified construction of the hub due to the fact that the forces acting from the second blade section are applied to locations which are positioned further outside the hub. that is, the forces are applied to the first blade section which includes the support structure for the second blade section. stresses created by such an arrangement can be decreased in relation to a structure in which the support structure is provided inside or close to the hub.[0017] according to yet another embodiment of the present subject matter, an actuating device is provided at least partly in the first blade section which is configured to rotate the second blade section about the longitudinal axis of the blade. such an actuating device enables the pitch control of the second blade section and the specific arrangement in the first blade section simplifies the construction and the maintenance work.[0018] according to yet another embodiment of the present subject matter, the actuating device is formed as at least one electric motor which is capable of rotating the shaft. an electric motor is easily controllable and can be designed with a small dimension which is important due to the limited space inside the rotor structure.[0019] according to yet another embodiment of the present subject matter, the at least one motor is provided with a drive gear which is engaged or engageable with a gear section provided on the shaft. a geared transmission is simple and accurate for controlling the pitch of the blade. further, the maintenance of such a system is simple and economic.[0020] according to yet another embodiment of the present subject matter, the at least one motor is directly coupled to the shaft thus forming a direct drive of the shaft, in particular, without any speed reduction between the motor and the shaft. such an arrangement is even more simplified as (Results 18)
- Search 6: PN=(WO 2014/060800) (Results 100000)
- Search 7: PN=(WO 2014/060800 A2) (Results 100000)
- Search 8: PN=(WO2014/060800 A2) (Results 1)
- Search 9: fn=(56265650) (Results 1)
- Search 10: fn=(56265650) (Results 1)
- Search 11: fn=(56265650) (Results 1)
- Search 12: fn=(56265650) (Results 1)
- Search 13: PN=(es2403379) (Results 1)
- Search 14: TAC=(win and power and genetator and turbine) (Results 0)
- Search 15: TAC=(win and power and genetator and turbine) and PN=(wo2013050525) (Results 0)
- Search 16: TAC=(win and power and genetator and turbine) and PN=(wo2013/050525) (Results 0)
- Search 17: TAC=(win and power and genetator and turbine) and PN=(wo2013/104779) (Results 0)

Search 18: TAC=(win and power and genetator and turbine) and PN=(wo2013104779) (Results 0)

Search 19: TAC=(win and power and genetator and turbine) and PN=(wo 2013104779) (Results 0)

Search 20: TAC=(win and power and genetator and turbine) and PN=(wo 2013/104779) (Results 0)

Search 21: PN=(wo2013104779) (Results 1)

Search 22: fn=(56265650) (Results 1)

Search 23: fn=(56265650) (Results 1)

Search 24: TAC=(three and hollow and hinge and parts and cavities) (Results 74)

Search 25: TAC=(Door and hinge and three and cavities) (Results 99)

Search 26: TAC=(Door and hinge and cavity and connecting and element) (Results 310)

Search 27: TAC=(Door and hinge and connector and cavity and anchoring and element) (Results 5)

Search 28: TAC=(active and chamber and air and motor) (Results 2183)

Search 29: TAC=(active and chamber and neumatic and motor) (Results 0)

Search 30: TAC=(Heat and engine and pressurizer and for and engine) (Results 38)

Search 31: TAC=(Engine and air and pressure) (Results 92666)

Search 32: TAC=(Engine and air and pressure) (Results 92667)

Search 33: TAC=(High and pressure and pneumatic and engine) (Results 2263)

Search 34: TAC=(High and pressure and pneumatic and engine) and IC=(f02m) (Results 220)

Search 35: TAC=(High and pressure and pneumatic and engine) and IC=(F03G7/00) (Results 30)

Search 36: IC=(B 65 H 45/24) (Results 0)

Search 37: IC=(B65H45/24) (Results 780)

Search 38: TAC=(first and second and webs) and IC=(B65H45/24) (Results 72)

Search 39: PN=(wo2013/007301) and IC=(B65H45/24) (Results 1)

Search 40: [SP]: 1. a stack of interfolded first and second sheets, wherein the stack comprises an adherence layer for adhering a start of the stack to an end of a preceding stack in a dispenser, and wherein the adherence layer is applied on the first and the second sheets so that the first and second sheets at the start of the stack are adherable to the end of the preceding stack. 2. the stack of claim 1, wherein the adherence layer is one of a layer of glue, a layer of adhesive tape, and a mechanical fastener. 3. the stack of claim 1, wherein the adherence layer is provided in the shape of a strip of adherence material. 4. the stack of claim 1, wherein one of the first and second sheets forms a top panel of the stack at the start of the stack, the top panel is arranged to reveal a panel of the other of the first and second sheets so that the top panel and the revealed panel are exposed to the preceding stack at the top of the stack, wherein the adherence layer is applied on both the top panel and the revealed panel. 5. the stack of claim 4, wherein the top panel overlays part of the revealed panel. 6. the stack of claim 4, wherein the one of the first and second sheets is cut along a cut line in such a way that the top panel reveals the panel of the other of the first and second sheets. 7. the stack of claim 6, wherein the cut line and the adherence layer cross one another so that the adherence layer is applied on both the top panel and the revealed panel. 8. the stack of claim 6, wherein the cut line includes at least a portion extending diagonally with respect to a plane of the stack extending perpendicular to a stacking direction, wherein the stacking direction is an axis passing through each of the sheet products in the stack. 9. the stack of claim 6, wherein the part cut away and the part remaining of the top panel are complementary in shape and of the same size. 10. the stack of claim 1, wherein a top panel of the stack, which is a panel of one of the first or the second sheets, at the start of the stack is relatively short in a direction perpendicular to a fold line of the interfolded sheet along the sheet so as to reveal a panel of the other of the first or the second sheets, wherein the adherence layer is applied on the top panel and the revealed panel. 11. the stack of claim 10, wherein the first sheet is a first elongate web, the second sheet is a second elongate web, the first and second webs are divided into separable hygiene sheet products by lines of weakness extending laterally across the web, the lines of weakness of the first web and the second web are arranged offset relative to one another in a longitudinal direction of the webs, and the positioning of fold lines of the first web relative to the lines of weakness of the first web in the longitudinal direction is different from the positioning of the fold lines of the second web relative to the lines of weakness of the second web so that a top panel of the stack, which is a panel of one of the first and second webs, is relatively short in the longitudinal direction of the web to reveal an underlying panel of the other of the first and second webs, wherein the adherence layer is applied on the top panel and the revealed underlying panel. 12. the stack of claim 11, wherein a terminal edge of the top panel extends parallel to the fold line. 13. the stack of claim 12, wherein the adherence layer has a longitudinal direction aligned with the terminal edge and is applied on the top panel for part of the width of the adherence layer and is applied on the revealed underlying panel for the remainder of the width of the adherence layer. 14. the stack of claim 1, wherein the adherence layer extends along a longitudinal direction of the stack in a plane of the stack extending perpendicular to a stacking direction, wherein the stacking direction is an axis passing through each of the sheet products in the stack. 15. the stack of claim 1, wherein the adherence layer extends along an axis in a plane of the stack extending perpendicular to a stacking direction of the stack, wherein the stacking direction is an axis passing through each of the sheet products in the stack, wherein the adherence layer extends at least 25 percent of the full dimension of the stack along the axis. 16. the stack of claim 1, wherein the first sheet is a first elongate web, the second sheet is a second elongate web, the first and second webs are divided into separable hygiene sheet products by lines of weakness extending laterally across the webs, the webs are interfolded with each other to form the stack, and the lines of weakness of the first elongate web are offset in the longitudinal direction of the webs from the lines of weakness of the second elongate web so that as the products are dispensed, a terminal product from the first web and a terminal product from the second web, which are the products next to be dispensed for the respective webs, are alternately further forward in the longitudinal direction. 17. the stack of claim 1, wherein there is a boundary line between a top panel of the first sheet and a top panel of the second sheet as seen in plan view of a top surface of the stack, and wherein the adhesive layer is applied on the top panels so as to cross the boundary line. 18. the stack of claim 1, wherein the stack has an adherence layer at the start and the end of the stack for adhering the first and second sheets to adjacently placed stacks in a dispensing machine so that the stack is adhered to both a preceding stack and a succeeding stack. 19. the stack of claim 18, wherein the adherence layers are respectively formed of a first part of a two part adherence material and a second part of a two part adherence material, wherein the adherence effect of the adherence layers only properly activates when the first and second parts come into contact, and wherein the adherence layers are positioned on the stack so that if a corresponding such stack was placed start to end and so that the end surfaces of the stacks completely overlap, then the start and end adherence layers of the respective stacks would come into contact and activate the adherence effect. 20. the stack of claim 1, wherein a top surface at the start of the stack, which defines a top plane of the stack perpendicular to an axis passing through each of the products in the stack, is defined in part by a top panel of the first sheet and in part by a top panel of the second sheet, wherein a bottom surface at the end of the stack, which defines a bottom plane of the stack perpendicular to an axis passing through each of the products in the stack, is defined in part by a bottom panel of the first sheet and a bottom panel of the second sheet, wherein one of the top panels overlays the other to reveal the other top panel, which defines a full panel, and one of the bottom panels overlays the other to reveal the other bottom panel, which also defines a full panel, wherein the one top panel and the one bottom panel are complementarily sized and shaped with one another so that they can be pieced together to define a full panel. 21. a combination of a preceding stack of interfolded first and second sheets respectively defining at least one sheet hygiene product and a succeeding stack of interfolded first and second sheets respectively defining at least one sheet hygiene product, wherein a top surface of the succeeding stack and an end of the preceding stack are adhered together in such a way that an adherence layer is adhered to both the first and the second sheets of the succeeding stack so that as the end of the preceding stack is pulled through a dispenser opening of a dispenser, both the first and the second sheets at the start of the succeeding stack are securely pulled through the dispensing opening with it. 22. a dispenser containing a combination of first and second stacks according to claim 1, the stack providing a preceding stack and a succeeding stack with respect to the dispensing order in the dispenser, the dispenser comprising a dispensing opening through which the sheet hygiene products are dispensed from the stacks, the dispensing opening and the stacks arranged so that the first and second sheets are pulled through a dispensing path to the dispensing opening against the force of gravity, whereby the force of gravity has a tendency to cause one or both of the first and second sheets to fall from the dispensing path. 23. the dispenser of claim 22, wherein the dispenser comprises a clamp for clamping the first and second sheets adjacent the dispensing opening to prevent sheet fall back, wherein the first and second sheets are fed along the dispensing path to the clamp against the force of gravity. (Results 177)

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Search 44: TAC=(scaffold and tubular and ring and building) (Results 19)

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Search 71: [SP]: brief description of the figures [0074] fig. 1 shows a conventional perspective of the drive shaft and cylindrical tube as the core of the biological contact rotor frame for aeration in wastewater treatment plant, in accordance with the present invention.[0075] fig. 2 shows a conventional perspective view, of one embodiment of the intermediate structural arm as modular unit for forming polygonal rings of the biological contact rotor frame for aeration in wastewater treatment plant, in accordance with the present invention.[0076] fig. 3 shows a conventional perspective view of another embodiment of the structural arm when is in the end, and forming the outer polygonal rings of the biological contact rotor frame for aeration in wastewater treatment plant, in accordance with the present invention.[0077] fig. 4 shows a conventional perspective view of the biological contact rotor frame for aeration in wastewater treatment plant, in accordance with the present invention, where the structural arms of figs. 2 and 3 are used.[0078] fig. 5 illustrates a conventional perspective view of a pair of polygonal rings of the biological contact rotor frame for aeration in wastewater treatment plant, as illustrated in fig. 4 illustrating a package or media for its coupling.[0079] fig. 6 shows an end side view of the biological contact rotor frame for aeration in wastewater treatment plant, shaped according to the figs. 2 to 5.[0080] fig. 7 shows a front view of the biological contact rotor frame for aeration in wastewater treatment plant, according to fig. 6.[0081] fig. 8 shows a conventional perspective view of a structural arm in another of its preferred embodiments and can be used both in the intermediate zone and outside of the rotor as a modular unit for forming polygonal rings of the biological contact rotor frame for aeration in wastewater treatment plant, in accordance with the present invention.[0082] fig. 9 illustrates a conventional perspective of the biological contact rotor assembled for aeration in wastewater treatment plant, in accordance to figs. 1 and 8, using the structural arm of the embodiment shown in said fig. 8.[0083] fig. 10 shows an exploded view of the fixation system of packs of media for assembly of the aeration rotor in wastewater treatment plant, in one embodiment of fixing the tubes that traverse the biomass support sheets.[0084] fig. 11 shows a conventional perspective view of a pack of media defined by the fixation system for assembly of the aeration rotor in wastewater treatment plant, in accordance with fig. 10.[0085] fig. 12 shows a front view of a pack of media defined by the fixation system for assembly of the aeration rotor in wastewater treatment plant, in accordance with figs. 10 and 11.[0086] fig. 13 shows a side view of a pack of media defined by the fixation system for assembly of the aeration rotor in wastewater treatment plant, in accordance with figs. 10 and 12.[0087] fig. 14 shows a conventional perspective view of a plurality of packs of media bonded together and bonded to a pair of structural rings of the frame of a cylinder defining a disc of media, in accordance with figs. 10 to 13.[0088] fig. 15 shows an exploded view, of the assembly structure of a pack of media for the biological contact rotor for aeration in wastewater treatment plant, in another embodiment of fixing the tubes that traverse the biomass support sheets.[0089] fig. 16 shows a conventional perspective view of a pack of media defined by the fixation system for assembly of the aeration rotor in wastewater treatment plant, in accordance with fig. 15.[0090] fig. 17 illustrates a longitudinal section of a hollow tube used in the assembly of a group of biomass support sheets for a pack of media of the biological contact rotor, in accordance with the present invention.[0091] fig. 17a shows a top perspective view of a plug of the ends of the hollow tubes shown in figs. 15 to 17.[0092] fig. 17b shows a bottom perspective view of a plug of the ends of the hollow tubes shown in figs. 15 to 17.[0093] fig. 17 c shows a top perspective view with a cake cut of a plug of the ends of the hollow tubes shown in figs. 15 to 17.[0094] 17d shows a bottom perspective view with a cake cut of a plug of the ends of the hollow tubes shown in figs. 15 to 17.[0095] fig. 18 shows a conventional perspective view of a pair of rings of biological contact rotor according to figs. 8, 9 and 15 to 17d, illustrating the placement of a pack of media.[0096] fig. 19 shows a front view of the joining of a t-shaped structural element of a pack of media illustrated in fig. 16, fixed at one of the structural arms of the biological contact rotor in accordance with the present invention.[0097] fig. 20 illustrates a conventional perspective of the assembled rotor frame, in the absence of biomass support sheets of packs of media, according to figs. 1, 8, 9, 15 to 17d.[0098] fig. 21 shows a conventional perspective view of the detail "a" shown in fig. 20 of the biological contact rotor frame, illustrating the reinforced binding between each other of the horizontal straight arms and the t-shaped structural elements forming packs of media. (Results 13)

Search 72: TAC=(DEVICE and MEASURING and SKELETAL and DENTAL) (Results 19)

Abstract: Source: US2002006597A A system and method by which an orthodontic appliance is automatically designed and manufactured from digital lower jaw and tooth shape data of a patient provides for preferably scanning a model of the patient's mouth to produce two or three dimensional images and digitizing contours and selected points. A computer may be programmed to construct archforms and/or to calculate finish positions of the teeth, then to design an appliance to move the teeth to the calculated positions. The appliance may include archwires and brackets. Machine code is generated and appliances are automatically produced that will straighten the teeth of the patient. Custom placement jigs may also be automatically designed and fabricated and are provided with the custom appliance to position the appliance on the patient's teeth.

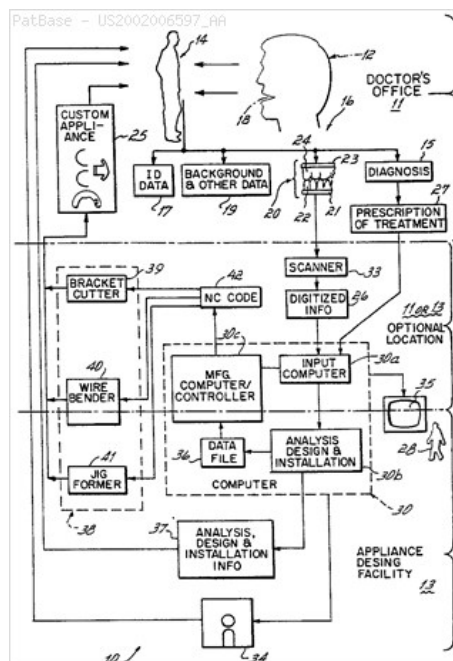
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US: 433/17 433/20 433/24 433/24P 433/24S 433/3 433/3P 433/8



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Designated states: AT AU BB BE BF BG BJ BR BY CA CF CG CH CI CM CZ DE DK ES FI FR GA GB GN GR HU IE IT JP KP KR KZ LK LU LV MC
MG ML MN MR MW NE NL NO NZ PL PT RO RU SD SE SK SN TD TG UA VN

Title: Biosynthetic osteogenic proteins and osteogenic **devices** containing them

Abstract: Source: EP0723013A2 Disclosed are 1) osteogenic **devices** comprising a matrix containing osteogenic protein and methods of inducing endochondral bone growth and cartilage in mammals using the **devices**; 2) amino acid sequence data, amino acid composition, solubility properties, structural features, homologies and various other data characterizing osteogenic proteins, 3) methods of producing osteogenic proteins using recombinant DNA technology, and 4) osteogenically and chondrogenically active synthetic protein constructs.

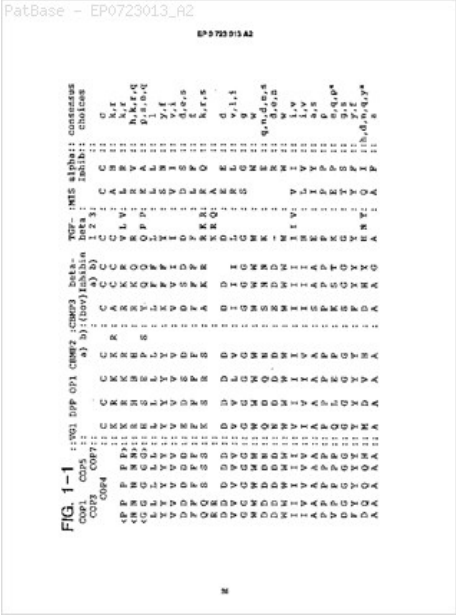
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International (IPC 1-7): A61K38/18 A61L27/00 C07K14/51 C07K16/22 C12N1/21 C12N15/12

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Family:

Publication number	Publication date	Application number	Application date
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EP0723013 A3	19980114	EP19960200044	19890407
EP0723013 B1	20030618	EP19960200044	19890407

Priority:

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EP19890904959 19890407	US19880232630 19880815	US19880232630 19880815
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Probable Assignee: STRYKER CORP

Assignee(s): (std): STRYKER CORP

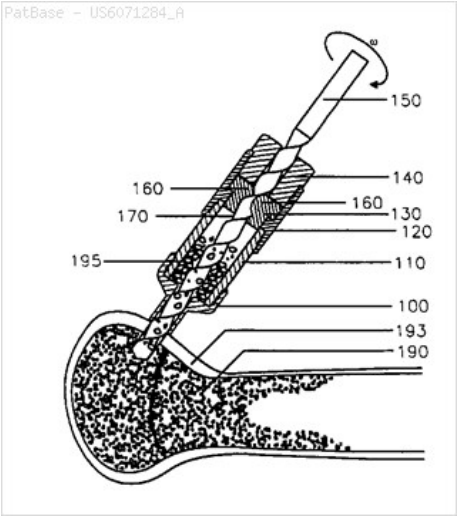
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Designated states: AT BE CH DE FR GB IT LI LU NL SE

Title: Materials collection system and uses thereof

Abstract: Source: US6071284A The present invention relates to instrumentation and uses thereof for collection of cuttings from cutting tools. Cuttings may be from precious metals, toxic or hazardous substances, or from living tissue such as bone. In a particular embodiment of collecting bone cuttings, the present invention includes instrumentation used with a drill bit so that bone cuttings (195) are aseptically collected in a collection chamber (110) for subsequent transplantation purposes. When in use, marrow and bone cuttings (195) are drawn into the flutes (170) of a drill bit (150), carried up the bore of the instrument tip (100) and collect in the collection chamber (110). The flutes of the drill bit (150) can be cleared of residual tissue through the use of a rotating flute wiper (160) that rotates with the drill bit (150) when drilling or when the drill bit (150) is withdrawn from the instrument. In this embodiment, use of the **device** allows collection of vital bone tissue for reconstruction of bone defects, fractures, or fixation of orthopaedic or **dental** implants that contact bone.

Classifications:
International (IPC 8-9): A61B10/00 A61B10/02 A61B17/00 A61B17/16 A61B19/00 (Advanced/Invention);
A61B10/00 A61B10/02 A61B17/00 A61B19/00 (Advanced/Non-invention);
A61B10/00 A61B10/02 A61B17/16 (Core/Invention);
A61B17/00 A61B19/00 (Core/Non-invention)
International (IPC 1-7): A61B10/00 A61B17/00 A61B17/16 A61B19/00 B23B47/34
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US: 606/102 606/80



Family:

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Priority:
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Probable Assignee: BIOMEDICAL ENTERPRISES INC

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Agent(s): DAVIES COLLISON CAVE; BERESKIN AND PARR

Designated states: AL AM AT AU AZ 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 LS LT LU LV MC MD MG MK MN MW MX NL NO NZ PL PT RO RU SD SE SG SI SK SZ TJ TM TR TT UA UG US UZ VN

Title: Design process for **skeletal** implants to optimize cellular response

Abstract: Source: US5954504A A method of designing a **skeletal** implant comprises **measuring** physical characteristics of the bone to be implanted, generating a macro-design of the implant based on the physical characteristics, and determining a micro-design for the implant to ensure that strain in the bone is kept between 100 and 3000 microstrain to promote bone growth and to minimize bone resorption during functional loading. In an alternate embodiment, a **dental** implant comprises a crest portion having a circular bottom surface, an opposite circular top surface, and a side wall intermediate the bottom surface and the top surface, the top surface being adapted for attaching the **dental** prosthesis thereto. A circular base portion has a crestal end, an opposite apical end, and a core section intermediate the crestal end and the apical end having an outer surface. A helical thread extends about a portion of the outer surface of the core section that secures the **device** within existing bone. The bone contacting surface area of the thread increases as the thread nears the crestal end, thereby increasing the surface area over which force is distributed from the implant to the surrounding bone so as to minimize resorption of the existing bone and promote growth of new bone tissue adjacent the **device**. In an alternative embodiment, a **dental** implant having a crest module, a threaded first section and a second section, comprises a surface disposed on a selected one of the crest module or the second section for distributing to the bone in a non-longitudinal direction a portion of any longitudinally directed force on the implant.

Classifications:

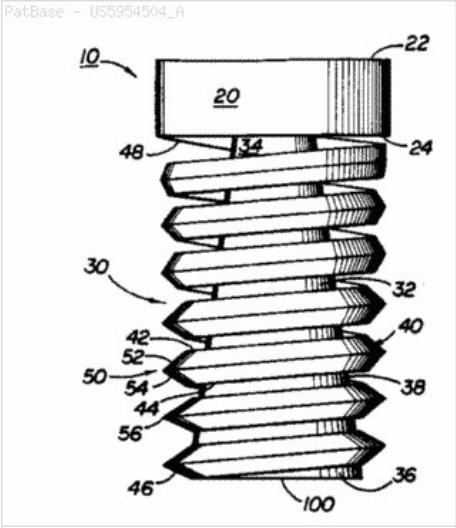
International (IPC 8-9): A61C8/00 (Advanced/Invention);
A61C8/00 (Core/Invention)

International (IPC 1-7): A61C8/00

CPC: A61C8/0018 A61C8/0022

European: A61C8/00F A61C8/00F2

US: 433/173 433/174



Family:

Publication number	Publication date	Application number	Application date
US5954504 A	19990921	US19970828673	19970331

Priority:

US19970828673 19970331

Probable Assignee: BIOHORIZONS IMPLANT SYSTEMS INC

Assignee(s): (std): BIOHORIZONS IMPLANTS SYSTEMS

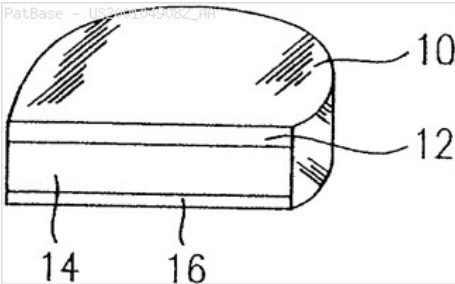
Assignee(s): BIOHORIZONS INC ; BIOLOK INT INC ; EVOLUTION IP HOLDINGS INC ; HENRY SCHEIN INC ; MERRILL LYNCH CAPITAL A DIVISION OF MERRILL LYNCH ; MIDCAP FUNDING I LLC AS SUCCESSOR AGENT ; MIDCAP FINANCIAL LLC AS ADMINISTRATIVE AGENT ; MERRILL LYNCH BUSINESS FINANCIAL ; MIDCAP FUNDING I LLC AS ADMINISTRATIVE AGENT ; MIDCAP FUNDING I LLC ADMINISTRATIVE AGENT AS ; MIDCAP FINANCIAL LLC ADMINISTRATIVE AGENT AS ; MIDCAP FUNDING I LLC SUCCESSOR AGENT AS ; ORTHOGEN CORP ; US BANK NATIONAL ASSOCIATION ; MERRILL LYNCH CAPITAL A DIVISION OF MERRILL LYNCH BUSINESS FINANCIAL SERVICES INC ; BIOHORIZONS IMPLANT SYSTEMS INC

Inventor(s): (std): BIDEZ MARTHA WARREN ; MISCH CARL E ; STRONG J TODD

Title: Shade determination apparatus and method for specifying and determining colors for teeth and dental restorations

Abstract: Source: US2001049082A In a shade determination apparatus for teeth and dental restorations, a set of reference templates for comparing to a patient's tooth is provided, whereby based on the coloration of the reference template the shade of a tooth or of a restoration to be employed can be determined. The reference templates are produced in a layer arrangement, taking into consideration layer thickness and/or material selection, that corresponds to the tooth or the dental restoration to be employed. A storage apparatus stores the coloration of the reference templates, and the layering of the tooth or of the dental restoration can be matched and determined based on partial images from an image of the patient's tooth.

Classifications:
International (IPC 8-9): A61C13/00 A61C19/04 A61C19/10 G01J3/52 (Advanced/Invention);
A61C13/00 A61C19/00 A61C19/04 G01J3/46 (Core/Invention)
International (IPC 1-7): A61C13/00 A61C19/04 A61C19/10 G01J3/52 G01N21/25
CPC: A61C19/10
European: A61C19/10
US: 356/408 433/203.1 433/26 433/26P



Family:

Publication number	Publication date	Application number	Application date
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Priority:
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Probable Assignee: IVOCLAR VIADENT AG

Assignee(s): (std): IVOCLAR VIVADENT AG ; IVOCLAR VIVADENT SCHAAN AG

Assignee(s): KERSCHBAUMER HARALD ; OSPELT ARMIN ; FIRMA IVOCLAR VIVADENT AG ; IVOCLAR VIADENT AG ; IVOCLAR VIVADENT AG FA ; IVOCLAR VIVADENT AG SCHAAN

Inventor(s): (std): KERSCHBAUMER HARALD ; OSPELT ARMIN

Agent(s): FETHERSTONHAUGH AND CO

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

Title: METHODS AND **DEVICES** FOR QUANTITATIVE ANALYSIS OF X-RAY IMAGES

Abstract: Source: US2002067798A The present invention relates to network enabled analysis of x-ray images. Also described are **devices** comprising calibration phantoms; methods of using these **devices**; methods of formulating databases containing information regarding x-ray images; the databases themselves; and methods of manipulating the information and databases.

Classifications:

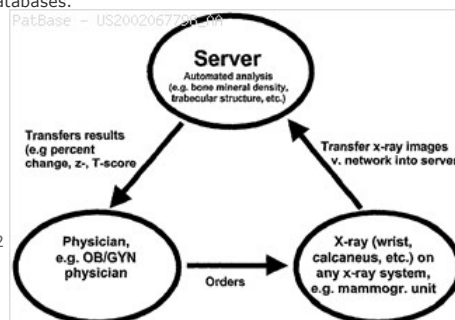
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International (IPC 1-7): A61B6/00 A61B6/14 A61K45/00 A61P19/10 G01B15/02 G01D18/00 G01N23/00 G01N23/05 G01N23/06 G01T1/24 G01T7/00 G06F19/00 G06K9/00 G06T7/00 G06T7/40 G06T7/60 H05G1/28 H05G1/64

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US: 378/165 378/165P 378/168 378/168S 378/18 378/207 378/207P 378/207S 378/38 378/38P 378/54 378/54P 378/54S 378/56 378/56P 378/62 378/62S 382/128 382/132 705/3 705/3P



Family:

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Priority:

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Probable Assignee: IMATX INC

Assignee(s): (std): IMAGING THERAPEUTICS INC ; OSTEONET COM INC ; OSTEONET INC ; LANG PHILIPP ; LIEW SIAU WAY ; STEINES DANIEL ; IMATX INC ; IMAGE THERAPEUTIC INSTR CORP ; IMAGING THERAPEUTICS ; VARGAS VORACEK RENE

Assignee(s): ARNAUD CLAUDE ; LINDER BARRY J ; IMAGE THERAPEUTIC INSTRUMENT CORP ; OSTEONETCOM INC

Inventor(s): (std): LANG PHILIPP ; LANG PHILLIP ; PHILIPP ARNAUD CLAUDE LINDER B ; PHILIPP LANG ; LANG P ; DANIEL STEINES ; CLAUDE ARNAUD ; VORACEK VARGAS RENE ; VARGAS VORACEK RENE ; STEINES DANIEL ; P LANG ; LINDER BARRY J ; LIEW SIAU WAY ; ARNAUD CLAUDE

Inventor(s): LINDER BARRY ; ARNAUD CLAUDE LINDER BARRY J ; ARNAUD CLAUDE LINDER BARRY J STEINES DANIEL LANGPH ; BARRY J LINDER ; SIAU WAY LIEW

Agent(s): PHILLIPS ORMONDE FITZPATRICK; FREEHILLS PATENT AND TRADE MARK ATTORNEYS; FREEHILLS PATENT ATTORNEYS; HERBERT SMITH FREEHILLS; SMART AND BIGGAR; GOWLING LAFLEUR HENDERSON LLP; IMAGING THERAPEUTICS INC; IMAGING THERAPEUTICS INC C O KENYON AND KENYON; IMAGING THERAPEUTICS INC C O KENYON AND KENYON LLP; BROMBERG AND SUNSTEIN LLP; SUNSTEIN KANN MURPHY AND TIMBERS LLP; KENYON AND KENYON; KENYON AND KENYON LLP

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KM KP KR KZ LC LI LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NA NE 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: 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 A61C8/00 A61F2/00 A61F2/28 A61F2/30 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 B29C65/601 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 B29C66/7392 B29C66/9513 B29C66/9517 B29C66/73791 B29K2307/04 B29K2309/08 B29K2023/04 B29K2069/00 B29K2075/00 B29K2027/06 B29K2079/085 B29K2081/06 B29K2033/12

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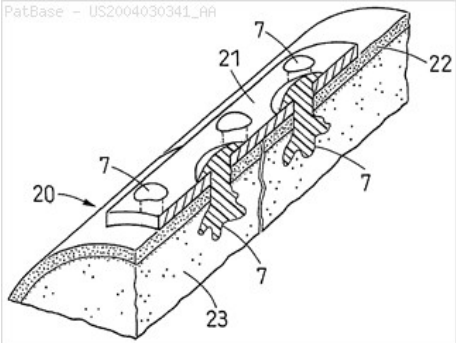
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Family:

Publication number	Publication date	Application number	Application date
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US8323323 BB	20121204	US20070923172	20071024
US8932337 BB	20150113	US20120667098	20121102
US8945192 BB	20150203	US20120667278	20121102
US9216083 BB	20151222	US20140576880	20141219
WO02069817 A1	20020912	WO2002CH00132	20020304
ZA200305876 A	20040730	ZA20030005876	20030730

Priority:

CH20010000387 20010302	WO2002CH00132 20020304	US20070760222 20070608
US20070760238 20070608	US20020415454 20020304	US20030415454 20030827



US20070760224	20070608	US20070760233	20070608	US20120667098	20121102
US20120667278	20121102	US20070923172	20071024	US20140576880	20141219

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): LANCI A ; LANCI ANTONINO ; LANCI M AESCHLIMANN L TORRIANI ; MAYER JOERG ; TORRIANI L ; TORRIANI LAURENT ; LANCI ANTONIO ; TORIIANI LAURENT ; MAYER JORG ; AESCHLIMANN M ; AESCHLIMANN MARCEL

Inventor(s): L TORRIANI ; A LANCI ; MAYER JOERGCH ; MARCEL AESCHLIMANN ; MAJER JORG ; LAURENT TORRIANI ; LANCI ANTONINOCH ; LANCHI ANTONIO ; JORG MAYER ; JOERG MAYER ; ANTONINO LANCI ; AESCHLIMANN MARCELCH ; AEHSSHLIMANN MARSEL' ; TORRIANI LORAN ; TORRIANI LAURENTCH ; M AESCHLIMANN ; M AESCHLIMANN L TORRIANI A LANCI

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: JOINT / TISSUE INFLAMMATION THERAPY AND MONITORING **DEVICE(S)** JITMON **DEVICE**

Abstract: Source: US2003167080A A **device** is provided, in direct skin contact, surrounding an injured area for the treatment, reduction of joint inflammation, edema and excitation of neural and muscular stimulation associated with human and mammal tissues. This therapeutic light source includes a multiplicity of light emitting diodes (LED's) found in the ranges of 350 nm to 1000+ nm and fiber optic connections. A neoprene type material or other non-allergenic material will be used to set the LED's and fiber optics in layers consisting of contact with the skin to few centimeters from the skin tissue. Distance will vary from contact or near contact with **devices** to several millimeters of separation. Each LED array will be independently controlled allowing for optimal modulation of light frequencies and wavelengths. Technology will be integrated allowing for biomedical feedback of tissue temperature and other statistical information. A low voltage, portable power supply, will be integrated into the **device** as well as an analog/digital, input/output connection **device**. The design will be created for continuous wear, flexibility and comfort.

Classifications:

International (IPC 8-9): A61B1/00 A61B18/02 A61B18/08 A61B18/18 A61B18/20 A61B19/00 A61B5/05 A61L2/00 A61L2/08 A61N5/06 B01J23/38 B32B5/02 C09K3/00 C12M1/34 C12Q1/68 C12Q1/70 G01N21/55 G01N21/64 G01N33/53 G01N33/537 G01N33/542 G01N33/543 G01N33/551 G01N33/553 H01M8/04 H01M8/10 (Advanced/Invention); A61B18/20 A61N1/40 C12Q1/68 H01M8/24 (Advanced/Non-invention); A61B1/00 A61B18/00 A61B18/04 A61B18/18 A61B18/20 A61B5/05 A61L2/00 A61L2/08 A61N5/06 B01J23/38 B32B5/02 C09K3/00 C12M1/34 C12Q1/68 C12Q1/70 G01N21/55 G01N21/64 G01N33/53 G01N33/536 G01N33/543 G01N33/551 H01M8/04 H01M8/10 (Core/Invention); A61B18/20 A61N1/40 C12Q1/68 H01M8/24 (Core/Non-invention)

International (IPC 1-7): A61B18/18 A61B18/20 A61L2/08 A61N1/00 A61N1/30 C12M1/34 C12Q1/68 C12Q1/70 G01N33/53 G01N33/537 G01N33/543 H01M8/04

CPC: A61Q9/04 A61B18/203 A61B2018/0047 A61K8/0241 A61K8/72 A61K2800/413 A61K2800/624 A61K2800/81 A61N5/062 A61Q1/145 A61Q19/02 H01M8/04029 H01M8/04156 H01M8/04223 H01M8/241 Y02E60/50 A61L2/082 A61L2/084 A61B18/02 A61B18/08 A61B18/20 A61B2018/0212 B82Y20/00 C12Q1/6834 C12Q1/6837 G01N21/6428 G01N21/6445 G01N21/6456 G01N21/648 G01N33/542 G01N2021/6417 G01N2021/6432 A61L2/0011 A61L2/0088 A61N1/406 A61N5/00 Y10S436/805 C08K9/10 C08K2003/2241 C09D5/084 C09D7/1225 G01N33/54373 A61N5/0613 A61N2005/0627 A61N5/0616 A61N2005/063 A61N2005/0645 A61N2005/0647 A61N2005/0652 A61N2005/0663 A61L2/08 A61L2/14 A61L2/232 B01L3/00 B82Y5/00 B82Y10/00 B82Y30/00 Y10T428/2982 Y10T428/2991 A61B2018/00791

European: A61B18/02 A61B18/08 A61B18/20H A61K8/02N A61K8/72 A61L2/08P2 A61L2/00P4 A61L2/08D A61L2/08F A61L2/14 A61L2/232 A61N5/00 A61N5/06C2 A61N5/06C8 A61Q1/14B A61Q19/02 A61Q9/04 B82Y10/00 B82Y20/00 B82Y30/00 B82Y5/00 G01N21/64H G01N21/64L G01N21/64P4 G01N21/64P8 G01N33/542 G01N33/543K2 H01M8/04C8 K61B18/00F8B K61B18/02C K61B18/20 K61K800/413 K61K800/624 K61K800/81 K61N1/40T2 K61N5/06F K61N5/06S6W K61N5/06S6W2 K61N5/06T2A K61N5/06W6A L01L3/00 M12Q1/68B10 M12Q1/68B10A S01N21/64G S01N21/64H4 T01M8/04B4 T01M8/04C2E2 T01M8/24B2 Y02E60/50

US: 128/898 250/362 250/363.01 250/395 252/182.33 422/22 422/28 428/402 428/403 429/13 429/26 429/414 429/414P 429/429 429/429S 429/442 429/442S 429/465 429/465S 435/287.1 435/287.100S 435/287.2 435/287.200S 435/5 435/5P 435/6 435/6.1 435/6.100S 435/6.11 435/6.110P 435/6.110S 435/6.18 435/6P 435/6S 435/7.1 435/7.100S 436/172 436/518 436/524 436/525 436/805 502/325 600/101 600/407 604/20 604/20P 606/15 606/15S 606/20 606/20P 606/9 606/9P 607/86 607/86S 607/88 607/89 977/773

Family:

Publication number	Publication date	Application number	Application date
DE112004001626 T5	20060713	DE200411001626	20040903
JP2007504623 T2	20070301	JP20060525470T	20040903
US2003167080 AA	20030904	US20030366267	20030214
US2004157237 AA	20040812	US20030656629	20030908
US2004253138 AA	20041216	US20030689965	20031022
US2005053807 AA	20050310	US20030656529	20030905
US2005142605 AA	20050630	US20050065612	20050225
US2005164169 AA	20050728	US20040930608	20040901
US2005177093 AA	20050811	US20050100029	20050406
US2005186565 AA	20050825	US20050117001	20050429
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US2005283145 AA	20051222	US20050186008	20050721
US2009130445 AA	20090521	US20090319362	20090107
US2009326358 AA	20091231	US20050237519	20050929
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US7081128 BB	20060725	US20030366267	20030214
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US7704754 BB	20100427	US20040930608	20040901
US8118032 BB	20120221	US20050186008	20050721
WO05027238 A2	20050324	WO2004US28734	20040903
WO05027238 A3	20050506	WO2004US28734	20040903

Priority:

US20020361161P 20020304	US20030446096P 20030210	US20030366267 20030214
US20030478260P 20030616	US20040539192P 20040127	US20040551389P 20040310
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US20040559059P 20040405	US20050117001 20050429	US20050237519 20050929
US20050065612 20050225	US20040930608 20040901	US20040589883P 20040722
WO2004US28734 20040903	US20050186008 20050721	US20050100029 20050406
US20040916560 20040812	US20040552854P 20040315	US20040551382P 20040310
US20090319362 20090107		

Probable Assignee: AMERICAN ENVIRONMENTAL SYSTEMS INC

Assignee(s): (std): AMERICAN ENVIRONMENTAL SYSTEMS ; BREault RICHARD D ; HAGANS PATRICK L ; HART BARRY M ; AMERICAN ENVIRONMENTAL SYSTEMS INC ; AMERICAL ENVIRONMENTAL SYSTEMS ; AMERICAN ENVIRONMENTAL SYSTEM ; HART BARRY MICHAEL ; UTC FUEL CELLS LLC ; MALAK HENRYK

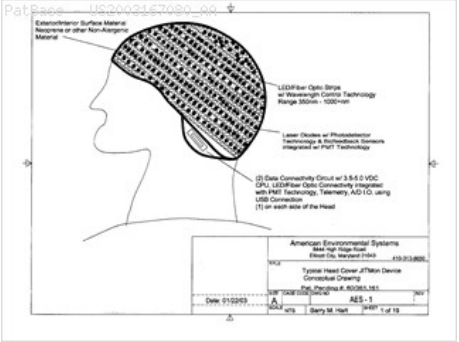
Assignee(s): UNITED TECHNOLOGIES CORP ; UTC POWER CORP ; SPR ADVANCED TECHNOLOGIES INC ; US PATENT AND TRADEMARK OFFICE ; AMERICAN ENVIRONMENTAL SYSTEM INC ; AMERICAL ENVIRONMENTAL SYSTEMS INC ; BARRY HART M ; BALLARD POWER SYSTEMS INC ; AUDI AG

Inventor(s): (std): BARRY HART M ; BREault RICHARD D ; HAGANS PATRICK L ; HART BARRY M ; MALAK HENRYK ; HART BARRY MICHAEL ; BOGDANOV VALERY

Inventor(s): HAGANS PATRICK ; BREault RICHARD ; BARRY HART

Agent(s): STEPHEN E REVIS; HENRYK MALAK; ARMSTRONG KRATZ QUINTOS , HANSON AND BROOKS LLP; ARMSTRONG KRATZ QUINTOS HANSON AND BROOKS LLP; H MALAK; STEPHEN E

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 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: ANTI-INFLAMMATORY COMPOSITIONS AND USES THEREOF

Abstract: Source: US2006241130A Methods of treating medical conditions associated with inflammation employing compounds capable of inhibiting an activity and/or a formation of an oxidant associated with the inflammation, pharmaceutical composition and inhalation **devices** containing such compounds are provided. Further provided are methods of identifying drug candidates for treating inflammation-associated medical conditions by inhibiting an activity and/or a formation of an oxidant associated with the inflammation and methods of diagnosing such medical conditions.

Classifications:

International (IPC 8-9): A61K31/01 A61K31/015 A61K31/035 A61K31/04 A61K31/045 A61K31/122 A61K31/20 A61K31/202 A61K31/33 A61K31/35 A61K31/351 A61K31/352 A61K31/353 A61K31/40 A61K31/404 A61K31/52 A61K31/522 A61K31/7048 A61K6/00 A61P11/06 A61P29/00 A61P31/00 A61P37/02 A61P37/08

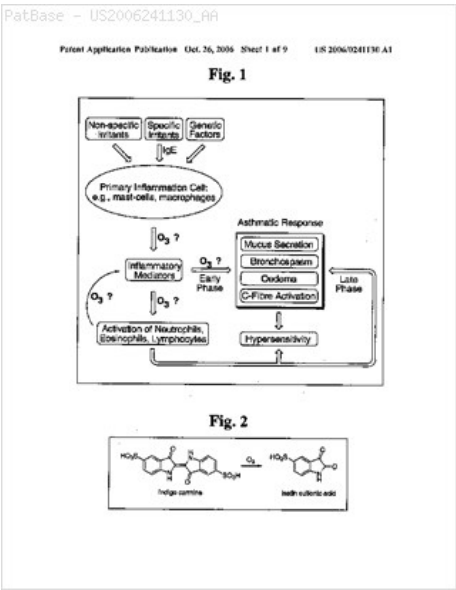
A61P39/06 (Advanced/Invention);
A61K31/04 A61K31/18 A61K31/35 A61K31/40 A61K31/51 (Core/Invention);
A61K (Subclass/Invention)

International (IPC 1-7): A61K A61K31/035 A61K31/122 A61K31/351 A61K31/352 A61K31/353 A61K31/404 A61K31/522 A61K31/7048 A61K6/00 A61P11/06 A61P29/00 A61P31/00 A61P37/02 A61P37/08 A61P39/06

CPC: A61K31/122 A61K31/035 A61K31/01 A61K31/015 A61K31/045 A61K31/202 A61K31/33 A61K31/351 A61K31/352 A61K31/353 A61K31/404 A61K31/522 A61K31/7048

European: A61K31/01 A61K31/015 A61K31/035 A61K31/045 A61K31/122 A61K31/202 A61K31/33 A61K31/351 A61K31/352 A61K31/353 A61K31/404 A61K31/522 A61K31/7048

US: 514/263.31 514/263.310P 514/414 514/414S 514/456 514/456S 514/560 514/560S 514/724 514/724S 514/729 514/729S 514/762 514/762S 514/763 514/763S



Family:

Publication number	Publication date	Application number	Application date
EP1587482 A2	20051026	EP20040707174	20040201
EP1587482 A4	20100825	EP20040707174	20040201
US2006241130 AA	20061026	US20040543590	20040201
WO04066912 A2	20040812	WO2004IL00096	20040201
WO04066912 A3	20051208	WO2004IL00096	20040201

Priority:

US20030443866P 20030131 US20030453213P 20030311 US20040543590 20040201
US20060543590 20060207 WO2004IL00096 20040201

Probable Assignee: TECHNION RESEARCH AND DEVELOPMENT FOUNDATION LTD

Assignee(s): (std): ALT ARON ; KEINAN EHUD ; TECHNION RES AND DEV FOUNDATION

Assignee(s): TECHNION RESEARCH AND DEVELOPMENT FOUNDATION LTD

Inventor(s): (std): ALT ARON ; KEINAN EHUD

Agent(s): MARTIN MOYNIHAN, ANTHONY CASTORINA; MARTIN MOYNIHAN ANTHONY CASTORINA

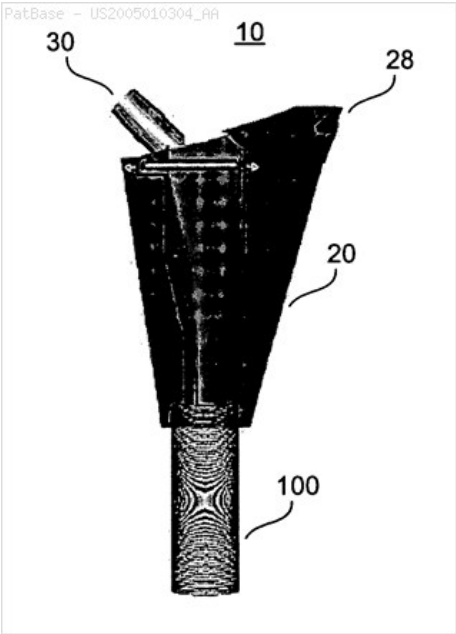
Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NA NE NI NL NO NZ OM PG PH PL PT RO 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: **DEVICE** AND METHOD FOR RECONSTRUCTION OF OSSEOUS **SKELETAL** DEFECTS

Abstract: Source: US2005010304A A **device** for the reconstruction of **skeleta** defects with a flexible member, which is preferably resorbable, attached to a rigid structural prosthesis such as a **dental** implant, an orthopedic prosthetic implant, or an artificial disc implant. The cavity space surrounded by the flexible member is filled with osteoconductive and/or inductive materials which eventually matures into bone. The prosthesis is supported by the bed of graft material surrounding it and is gradually unloaded as the bed matures into solid bone. The fixation of the prosthesis into native bone depends on the specific implant and the anatomic area of its use. The flexible member is secured to the margins of the prosthesis using rails, runners, sutures, or other attachment **devices** that prevent the escape of the bone graft and maintain an initial column of support for the implant.

Classifications:

International (IPC 8-9): A61B17/56 A61C8/00 A61F2/28 A61F2/30 (Advanced/Invention); A61B17/00 A61B17/06 A61F2/00 A61F2/02 A61F2/08 A61F2/34 A61F2/36 A61F2/38 A61F2/40 A61F2/42 (Advanced/Non-invention); A61B17/56 A61C8/00 A61F2/28 A61F2/30 (Core/Invention); A61B17/00 A61B17/06 A61F2/00 A61F2/02 A61F2/08 A61F2/32 A61F2/36 A61F2/38 A61F2/42 (Core/Non-invention); A61F (Subclass/Invention)
International (IPC 1-7): A61C8/00 A61F2/28
CPC: A61F2/38 A61B17/06166 A61B2017/00004 A61F2/0811 A61F2/2803 A61F2/2846 A61F2/30734 A61F2/34 A61F2/36 A61F2/3607 A61F2/3662 A61F2/367 A61F2/3676 A61F2/3804 A61F2/3859 A61F2/389 A61F2/40 A61F2/4202 A61F2002/2817 A61F2002/2835 A61F2002/30062 A61F2002/30133 A61F2002/30153 A61F2002/30224 A61F2002/30331 A61F2002/30383 A61F2002/30387 A61F2002/305 A61F2002/30588 A61F2002/30738 A61F2002/30785 A61F2002/30838 A61F2002/30878 A61F2002/30909 A61F2002/3096 A61F2002/3429 A61F2002/3625 A61F2002/4011 A61F2002/4631 A61F2210/0004 A61F2220/0025 A61F2220/0033 A61F2230/0015 A61F2230/0019 A61F2230/0069 A61F2310/00293 A61L27/56 A61L2430/24 A61C8/0006
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US: 433/201.1 433/201.100S 606/86.00RS 606/86R 623/17.11 623/17.110S 623/18.11 623/18.110S 623/20.16 623/20.160S 623/23.28 623/23.280S 623/23.46 623/23.460P 623/23.52 623/23.54 623/23.58 623/23.580P 623/23.63 623/23.630S 623/23.76



Family:

Publication number	Publication date	Application number	Application date
US2005010304 AA	20050113	US20040867748	20040616
US2010076572 AA	20100325	US20090626505	20091125
US8187336 BB	20120529	US20090626505	20091125
WO04112642 A2	20041229	WO2004US19207	20040616
WO04112642 A3	20050310	WO2004US19207	20040616

Priority:

US20030478465P 20030616 US20040867748 20040616 US20090626505 20091125

Probable Assignee: JAMALI AMIR A

Assignee(s): (std): JAMALI AMIR A ; JAMALI AMIR ALI

Inventor(s): (std): JAMALI AMIR A ; JAMALI AMIR ALI

Inventor(s): JAMALI AMIR

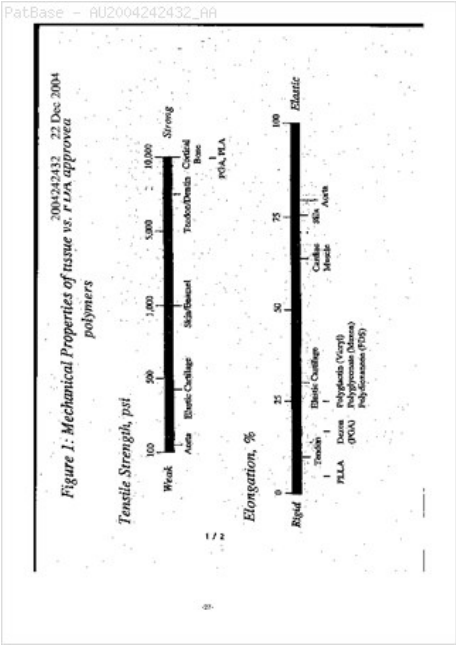
Agent(s): MICHAEL A OBLON SHAW PITTMAN LLP; STAINBROOK AND STAINBROOK LLP; CRAIG M

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC 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: Bioabsorbable, biocompatible polymers for tissue engineering

Abstract: Source: AU2004242432A 0 0 ABSTRACT (1 Bioabsorbable biocompatible polymers which provide a good match between their properties and those of certain tissue structures are provided. The r bioabsorbable biocompatible polymers can be prepared with tensile strengths, elongation to breaks, and/or tensile modulus (Young's modulus) value of the tissues of the cardiovascular, gastrointestinal, kidney and genitourinary, musculoskeletal, and nervous systems, as well as those of the oral, **dental**, periodontal, and skin tissues. Methods for processing the bioabsorbable Sbiocompatible polymers into tissues engineering **devices** are also provided. 2004242432 22 Dec 2004 Figure Mechanical Properties of tissue vs. r approvea polymers Tensile Strength, psi 100 500 1,000 5 percent 000 10,000 Weak U p Strong Aorta Elastic Cartilage Skin/Enamel Tendon/Dentin Cortical -Bone PGA, PLA Elongation., 100 Rigid Elastic Tendd4n 'Ela stic, Cartilage Cardiac Muscle Skin Aorta PLLA Dexon (PGA) Polyglactin (Vicryl) Polyglyconate (Maxon) Polydioxanone (PDS)

Classifications:
International (IPC 8-9): A61L31/06 (Advanced/Invention);
A61L31/04 (Core/Invention)
International (IPC 1-7): A61L31/06



Family:

Publication number	Publication date	Application number	Application date
AU2004242432 AA	20050120	AU20040242432	20041222
AU2004242432 BB	20070705	AU20040242432	20041222

Priority:
AU20000037228 20000303 AU20040242432 20041222

Probable Assignee: TEPHA INC
Assignee(s): (std): TEPHA INC
Inventor(s): (std): WILLIAMS SIMON F
Inventor(s): SIMON F WILLIAMS
Agent(s): FB RICE

Title: EPITOPES

Abstract: Source: US2007072797A Compositions and methods relating to epitopes of sclerostin protein, and sclerostin binding agents, such as antibodies capable of binding to sclerostin, are provided.

Classifications:

International (IPC 8-9): A61K38/00 A61K38/10 A61K38/16 A61K38/17 A61K39/00 A61K39/395 A61K39/44 A61K45/00 A61K45/06 A61P1/02 A61P1/04 A61P1/16 A61P15/00 A61P17/00 A61P19/00 A61P19/02 A61P19/08 A61P19/10 A61P25/00 A61P25/08 A61P25/32 A61P29/00 A61P3/00 A61P3/02 A61P3/04 A61P3/10 A61P37/00 A61P5/14 A61P5/16 A61P5/18 A61P7/00 A61P7/06 C07H21/00 C07H21/04 C07K C07K1/12 C07K1/20 C07K14/00 C07K14/435 C07K14/47 C07K14/475 C07K14/51 C07K14/705 C07K14/76 C07K14/79 C07K16/00 C07K16/18 C07K16/22 C07K16/26 C07K16/28 C07K16/46 C07K19/00 C07K5/00 C07K7/06 C07K7/08 C12N1/15 C12N1/19 C12N1/21 C12N15/02 C12N15/09 C12N15/12 C12N15/13 C12N15/63 C12N15/85 C12N5/02 C12N5/10 C12N5/20 C12P21/00 C12P21/02 C12P21/06 C12P21/08 G01N21/41 G01N33/53 G01N33/567 G01N33/577 G01N33/68 (Advanced/Invention); C07K14/51 C07K16/00 C07K16/18 C07K16/26 C07K16/28 C07K16/46 C12N15/02 C12N15/09 C12P21/08 G01N33/53 (Advanced/Non-invention); A61K38/00 A61K38/10 A61K38/17 A61K39/00 A61K39/395 A61K39/44 A61K45/00 A61P1/00 A61P19/00 A61P25/00 A61P3/00 A61P5/00 A61P7/00 C07H21/00 C07K1/00 C07K14/00 C07K14/435 C07K16/00 C07K16/18 C07K19/00 C07K7/00 C12N1/15 C12N1/19 C12N1/21 C12N15/09 C12N15/63 C12N15/85 C12N5/10 C12P21/02 C12P21/06 C12P21/08 G01N33/567 (Core/Invention); G01N33/53 (Core/Non-invention); A61K A61P C07K (Subclass/Invention)

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CPC: A61K39/3955 A61K45/06 C07K16/18 C07K14/51 C07K16/22 A61K39/395 A61K2039/505 C07K2317/24 C07K2317/76 C07K2317/92

European: C07K14/51 C07K16/22 K61K39/505 M07K316/960 M07K317/240 M07K317/920

US: 424/133.1 424/139.1 424/139.100P 424/141.1 424/142.1 424/145.1 424/145.100 424/172.1 424/172.100P 424/185.1 424/185.100P 424/198.1 435/252.33 435/254.2 435/254.21 435/254.23 435/320.1 435/320.100S 435/325 435/325S 435/328 435/331 435/412 435/414 435/415 435/419 435/68.1 435/69.1 435/69.100S 435/69.6 435/69.600S 435/7.2 435/7.200 435/70.21 435/70.210S 514/1.1 514/12 514/16.9 514/16.900S 514/21.3 514/21.4 530/300 530/324 530/326 530/326S 530/327 530/327S 530/328 530/328S 530/329 530/329S 530/330 530/330S 530/350 530/350S 530/362 530/362S 530/387.1 530/387.100S 530/387.3 530/387.300S 530/387.9 530/387.900S 530/388.1 530/388.15 530/388.22 530/388.220S 530/388.23 530/388.24 530/388.25 530/388.250 530/389.1 530/389.100S 530/391.7 530/391.700S 530/394 530/394S 536/23.5 536/23.500S 536/23.53 536/23.530S

Family:

Publication number	Publication date	Application number	Application date
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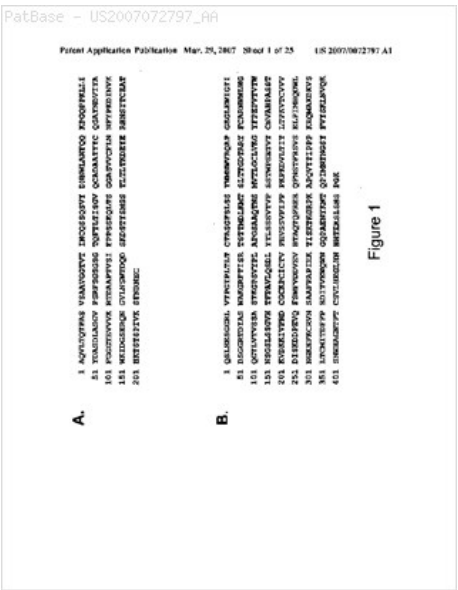


Figure 1

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Priority:

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

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US20150660136	20150317	US20150753160	20150629	US20150846137	20150904

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Inventor(s): PETER S STAATS ; PASTENA JAMES ; JOSEPH P ERRICO ; BRUCE SIMON ; JAMES R PASTENA ; JOHN T RAFFLE

Agent(s): PAPPAS IP; SPRUSON AND FERGUSON; KOZLOWSKI AND CO; KIRBY EADES GALE BAKER; DENTONS CANADA LLP; RICHARDT MARKUS ALBERT; RICHARDT PATENTANWAELTE GBR; JAPPY JOHN WILLIAM GRAHAM; RICHARDT PATENTANWAELTE PARTG MBB; KAPLAN GILMAN GIBSON AND DERNIER LLP; GIBSON AND DERNIER LLP; ELECTROCORE INC; ELECTROCORE INC 51 GILBRALTER DRIVE; JOHN T; JOSPEH P; DENTONS US LLP; DERNIER MATTHEW B; RAFFLE JOHN T; RAFFLE JOHN; ERRICO JOSEPH P; BOCK JOEL N

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

Title: ALPHA-AMYLASE VARIANTS WITH ALTERED PROPERTIES

Abstract: Source: US2009117642A Disclosed are compositions comprising variants of a parent G. stearothermophilus alpha-amylase that have alpha-amylase activity and which exhibit altered properties relative to a parent AmyS-like alpha-amylase from which they are derived. The compositions comprise an additional enzyme such as a phytase. Also disclosed are methods of using the compositions, and kits related thereto.

Classifications:
International (IPC 8-9): A21D2/00 A21D2/16 A21D2/26 A21D8/04 A23C17/00 A23G3/00 A23K1/165 A23K1/18 A23L1/03 A23L1/09 A23L1/202 A23L1/28 A61K38/46 C07H21/00 C07H21/04 C07K1/00 C07K14/32 C07K14/43 C07K14/435 C07K17/00 C08B30/12 C11D17/06 C11D17/08 C11D3/02 C11D3/37 C11D3/386 C11D3/395 C11D3/40 C11D3/48 C11D3/50 C11D3/60 C11D7/42 C12C11/00 C12D3/00 C12D3/386 C12G3/00 C12N1/00 C12N1/15 C12N1/19 C12N1/20 C12N1/21 C12N15/00 C12N15/09 C12N15/11 C12N15/56 C12N15/63 C12N15/75 C12N5/10 C12N9/00 C12N9/02 C12N9/14 C12N9/16 C12N9/18 C12N9/20 C12N9/24 C12N9/26 C12N9/28 C12N9/96 C12P19/14 C12P19/34 C12P21/06 C12P7/06 C12P7/10 C12S11/00 C12S9/00 D06L1/00 D06L3/11 D06M15/00 D06M16/00 (Advanced/Invention); C11D3/386 C12N15/09 C12N15/56 C12N15/75 C12N9/14 C12N9/28 (Advanced/Non-invention); A21D2/00 A21D8/02 A23G3/00 A23L1/09 A23L1/202 A61K38/43 C07H21/00 C07K14/415 C07K14/435 C11D3/38 C11D7/22 C12C11/00 C12N1/15 C12N1/19 C12N1/21 C12N15/00 C12N15/11 C12N15/56 C12N15/63 C12N15/74 C12N9/26 C12P7/02 C12S11/00 D06M16/00 (Core/Invention); C11D C12N (Subclass/Invention)
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CPC: C11D3/38609 C11D3/38618 Y02E50/16 C11D3/38681 C11D3/386 C12N9/2417 D06M16/003 A21D8/042 A23K1/1653 A23K1/1826 A23L1/034 Y02E50/17
European: A21D8/04B A23K1/165B A23K1/18L2 A23L1/03E C11D3/386 C11D3/386A C11D3/386B C11D3/386N C12N9/24A2B1A2 D06M16/00B Y02E50/16 Y02E50/17
US: 424/94.6 426/11 426/11P 426/42 426/48 426/56 426/64 426/64P 426/653 426/653S 426/658 426/658S 435/165 435/165S 435/183 435/188 435/188P 435/189 435/189S 435/195 435/196 435/197 435/197S 435/198 435/198S 435/200 435/201 435/201S 435/202 435/202P 435/202S 435/252.3 435/252.300S 435/252.31 435/252.310S 435/252.33 435/252.330S 435/252.34 435/252.340S 435/252.35 435/252.350S 435/252.5 435/252.500S 435/252.8 435/252.800S 435/253.3 435/253.300S 435/253.5 435/253.500S 435/254.11 435/254.110S 435/254.2 435/254.21 435/254.3 435/263 435/263P 435/263S 435/264 435/264S 435/275 435/275S 435/320.1 435/320.100S 435/325 435/348 435/69.1 435/91.1 435/99 510/218 510/218S 510/226 510/235 510/236 510/236S 510/300 510/300S 510/320 510/320S 510/392 510/392S 510/530 510/530S 530/350 536/22.1 536/22.100S 536/23.1 536/23.2 536/23.200S 536/23.7

PatBase - US2009117642A Activity Profile
(15% starch, 70-85C ramp)

Variant	4 min	10 min	20 min
Liq SC	0	0	0
Xtra	~15	~15	~-45
S242Q	~15	~25	~25
S242A	~15	~30	~30

Family:

Publication number	Publication date	Application number	Application date
AR069167 AA	20100106	AR2008P104805	20081103
AR069168 AA	20100106	AR2008P104806	20081103
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Assignee(s): (std): DANISCO US INC GENENCOR DIV ; DANISCO US INC ; DANISKO JUEHS INK ; GRAYCAR THOMAS P ; HUANG VICTORIA E ; POWER SCOTT D ; SHAW ANDREW ; RAMER SANDRA W ; LEEFLANG CHRIS ; KOLKMAN MARC ; VROEMAN CASPER ; JONES BRIAN E ; RAMER SANDRA ; KRAHG KARSTEN M ; KELLIS JAMES T ; SHETTY JAYARAMA K ; PAULSON BRADLEY ; SHARMA VIVEK ; JONES BRIAN ; KRAHG KARSTEN MATTHIAS ; PEREIRA LUIS GUSTAVO CASCAO ; VROEMEN CASPER ; KELLIS JAMES T JR ; KOKLMAN MARC ; KELLIS JR JAMES T ; KRAUGH KARSTEN ; KOLKMAM MARC ; JONES BRAIN E ; PAULSON BRADLEY A ; WEYLER WALTER ; WARD DONALD ; YOON MEE YOUNG ; VROEMEN CASPER WILLEM ; WARD DONALD E ; CASCAO PEREIRA LUIS ; CASCAO PEREIRA LUIS G ; CHANG CLAUDINE ; CHANG CLAUDINE Y ; CHOY CLEMENT ; DANISCO ; ESTABROOK MELODIE ; HUANG VICTORIA ; GRAYCAR THOMAS ; GOYAL MANSI

Assignee(s): DANISCO A S ; DANISCO US INC GENENCOR DIVISION

Inventor(s): (std): CASCAO PEREIRA LUIS ; CASCAO PEREIRA LUIS G ; CASCAOPEREIRA LUIS ; CASPER VROEMAN ; CASPER VROEMEN ; CHANG CLAUDINE ; CHANG CLAUDINE Y ; CHANG KLODIN ; CHOJ KLEMENT ; CHOY CLEMENT ; CHRIS LEEFLANG ; CLAUDINE CHANG ; CLEMENT CHOY ; DONALD WARD ; DZHOUNZ BRAJAN EH ; ESTABROOK MELODIE ; GOYAL MANSI ; GRAYCAR THOMAS ; GRAYCAR THOMAS P ; HUANG VICTORIA ; HUANG VICTORIA E ; ISTABRUK MELODI ; JONES BRAIN E ; JONES BRIAN ; JONES BRIAN E ; JOON MI JANG ; JR ; ANDREW SHAW ; BRADLEY PAULSON ; KASKAO PEREJRA LUIS ; KELLIS DZHEJMS T ML ; KELLIS JAMES T ; KELLIS JAMES T JR ; KELLIS JR JAMES T ; KOKLMAN MARC ; KOLKMAM MARC ; KOLKMAM MARC ; KOLKMAM MARK ; KRAHG KARSTEN M ; KRAHG KARSTEN MATTHIAS ; KRAUGH KARSTEN ; LEEFLANG CHRIS ; LEFLANG KRIS ; LUIS CASCAO PEREIRA ; PAULSON BRADLEY ; PAULSON BRADLEY A ; PEREIRA LUIS GUSTAVO CASCAO ; POLSON BREDLI ; POWER SCOTT D ; RAMER SANDRA ; RAMER SANDRA W ; SANDRA RAMER ; MANSI GOYAL ; MARC KOLKMAN ; MEE YOUNG YOON ; MELODIE ESTABROOK ; PAUEHR SKOTT D ; SHARMA VIVEK ; SHAW ANDREW ; SHETTY DZHAJARAMA K ; VICTORIA HUANG ; VIVEK SHARMA ; VROEMAN CASPER ; VROEMEN CASPER ; VROEMEN CASPER WILLEM ; VRUMEN KASPER ; WALTER WEYLER ; WARD DONALD ; WARD DONALD E ; WEYLER WALTER ; YOON MEE YOUNG ; SHETTY JAYARAMA K ; SHO EHNDRIJ ; THOMAS GRAYCAR ; UEHJLER UOLTER ; UORD DONAL D

Inventor(s): UORD DONAL'D ; SCOTT D POWER ; LUIS G CASCAO PEREIRA ; KELLIS DZHEJMS T ; BRIAN E JONES ; KARSTEN M KRAHG ; JAMES T KELLIS ; JAMES T KELLIS JR ; JAYARAMA K SHETTY

Agent(s): HOULIHAN2; HOULIHAN2; KREMER SIMON MARK; YAMASAKI YUKUZO; AKAMATSU TOSHIAKI; GENENCOR INT INC ATTENTION LEGAL DEPARTMENT; DANISCO US INC ATTENTION LEGAL DEPARTMENT; STEVEN G BACSI DANISCO US INC GENENCOR DIVISION; DRINKER BIDDLE AND REATH (DC); DRINKER BIDDLE AND REATH; DRINKER BIDDLE AND REATH LLP; DANISCO US INC; MEYER MERCEDES K; BACSI STEVEN G ET AL; INSPICOS A S; TODD STEPHEN

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: COMPUTER-AIDED SYSTEM OF ORTHOPEDIC SURGERY

Abstract: Source: US7909610B A computer aided system of orthopedic surgery is disclosed and omnidirectional osteogenesis is provided as an example thereof. To perform this surgery a craniofacial anatomic surgical simulator (CASS) is described, in which simulator a stereolithographic medical model is mounted. The medical model hereof is modified for this purpose so that pre-operative intra-oral **devices**, including custom-fitted fixation plates, can be crafted. An occlusal splint formed on the stereolithographic model acts as an armature for a docking bar which is, during the surgical operation, rigidly affixed to the fixation plate(s). The CASS, in one embodiment hereof, includes an indexing means for alignment of the stereolithographic model. The CASS also simulates the temporomandibular joint and fixedly mounts segments of the model in a post-operative condition.

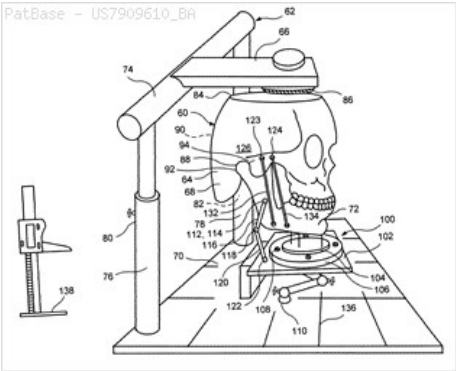
Classifications:

International (IPC 8-9): A61B17/00 A61B17/58 A61C3/00 G09B23/28 (Advanced/Invention)

CPC: G09B23/32 A61B17/663 A61B2019/505

European: G09B23/32

US: 433/18 434/270 434/274 606/105 606/57



Family:

Publication number	Publication date	Application number	Application date
US7909610 BA	20110322	US20070004542	20071220
US8282635 BA	20121009	US20080009503	20080118
US8535063 BA	20130917	US20110025540	20110211

Priority:

US20060871441P 20061221	US20070885570P 20070118	US20070899441P 20070206
US20070004542 20071220	US20080009503 20080118	US20110025540 20110211

Probable Assignee: AMATO CRANIOFACIAL ENGINEERING LLC

Assignee(s): (std): AMATO CRANIOFACIAL ENGINEERING LLC ; AMATO CYRUS J

Inventor(s): (std): AMATO CYRUS J

Agent(s): SIEGMAR; WILLIAM; CARELLA BYRNE ET AL; G GLENNON; SIEGMAR SILBER ESQ

Title: **DEVICE** AND METHOD FOR **MEASURING** THE SKELETAL **DENTAL** RELATIONSHIPS

Abstract: Source: US2012079732A A **device** for **measuring** the skeletodental relationship of a human skull directly from a cephalometric radiograph or from a hand tracing of the craniofacial structures includes a flat transparent plate-like structure. The plate-like structure has a generally rectangular shape with a zero point and two protractors spaced one below the other and superimposed on a zero point. The protractors include radial lines from 0 degrees to 90 degrees for a first of the protractors and from 90 degrees to 0 degrees for a second of the protractors. Further, the 0 degrees line in the first protractor is parallel with the 90 degrees line in the second protractor. The 0 degrees line in the second is parallel with the 90 degrees line in the first. Further, three vertical scales are provided on the right hand edge and top of the **device** with two of the scales on the right hand edge, but ascending in different directions.

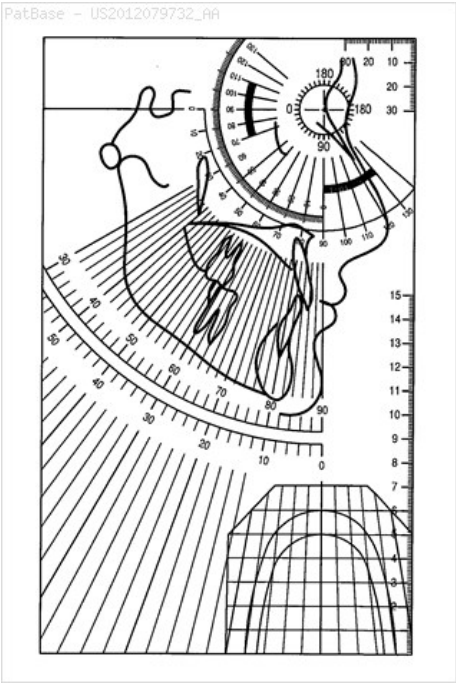
Classifications:

International (IPC 8-9): A61B6/14 A61C19/045 B43L13/20 G01B1/00 G01B11/28 (Advanced/Invention)

CPC: A61B5/1075 A61B6/14 G01B3/04 G01B3/563

European: A61B5/107H A61B6/14 G01B3/04 G01B3/56B

US: 33/513 33/513P 33/563



Family:

Publication number	Publication date	Application number	Application date
US2012079732 AA	20120405	US20100896963	20101004
US8209876 BB	20120703	US20100896963	20101004

Priority:

US20100896963 20101004

Probable Assignee: KING SAUD UNIV

Assignee(s): (std): BUKHARY MOHAMMED TAHER ; KING SAUD UNIVERSITY ; UNIV KING SAUD

Assignee(s): KING SAUD UNIV

Inventor(s): (std): BUKHARY MOHAMMED TAHER

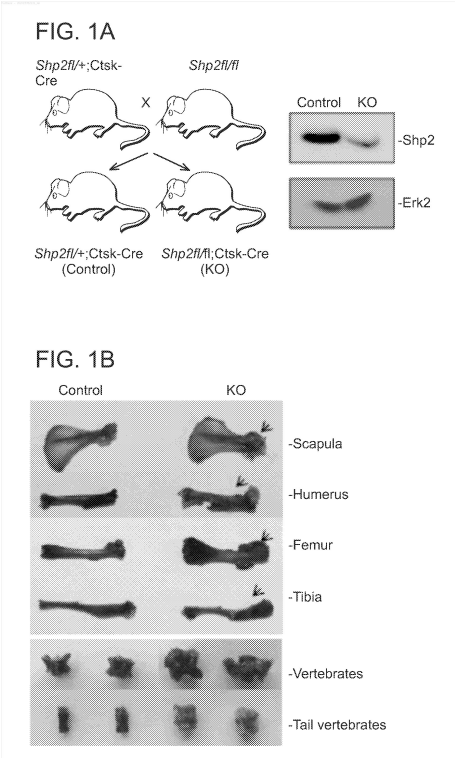
Agent(s): LOWE HAUPTMAN HAM AND BERNER LLP

Title: COMPOSITIONS AND METHODS FOR THE PREVENTION AND TREATMENT OF OSTEOLYSIS AND OSTEOPOROSIS

Abstract: Source: US2015352131A This application discloses compositions, **devices**, and methods for the prevention and treatment of osteolysis and osteoporosis. Treatment or prevention of osteolysis or osteoporosis is carried out by targeting the enzyme, Shp2 (a Src homology 2 (SH2) domain containing non-transmembrane Protein Tyrosine Phosphatase (PTP)), or proteins involved in the Shp2 signaling pathway by administering a Shp2 pathway inhibitor that inhibits fusion of pre-osteoclasts.

Classifications:

International (IPC 8-9): A61K31/192 A61K31/225 A61K31/404 A61K31/4152 A61K31/655 A61K31/663 A61L26/00 A61L27/28 A61L27/54 C12N9/99 G01N33/50 G01N33/573 (Advanced/Invention)
CPC: A61K31/194 A61K31/201 A61K31/341 A61K31/47 A61K31/655 A61K31/663 A61L27/54 A61L27/28 A61L26/0066 A61K31/225 G01N33/573 G01N33/5044 A61L2430/24 A61L2430/02 A61L2420/00 A61L2300/606 A61L2300/434 A61L2300/412 G01N2500/10 G01N2333/916 A61K31/192 A61K31/404 A61K31/4152 A61K31/7028



Family:

Publication number	Publication date	Application number	Application date
US2015352131 AA	20151210	US20140760413	20140116
WO14113584 A1	20140724	WO2014US11883	20140116

Priority:
US20130753218P 20130116 US20130849031P 20130116 WO2014US11883 20140116
US20140760413 20140116

Probable Assignee: RHODE ISLAND HOSPITAL

Assignee(s): (std): RHODE ISLAND HOSPITAL

Inventor(s): (std): EHRLICH MICHAEL G ; MOORE DOUGLAS ; YANG WENTIAN ; ZHOU YI

Agent(s): BEATTIE INGRID A ET AL

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

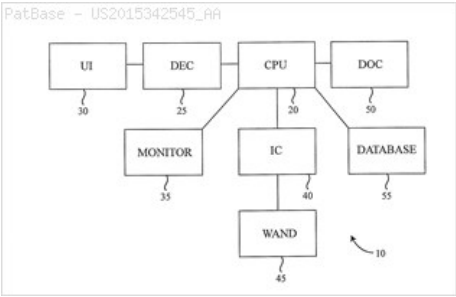
Title: SYSTEM AND METHOD FOR DETERMINING AN ORTHODONTIC DIAGNOSTIC ANALYSIS OF A PATIENT

Abstract: Source: US2015342545A A system and a method for determining an orthodontic diagnostic analysis of a patient at various **dental** maturity stages **predicts** future conditions and/or treatment recommendations. The system and the method locate points in a mouth of a patient using an imaging **device** wherein the imaging **device** generates imaging data. The imaging data is transferred to a central processing unit wherein the central processing unit has access to a database having information associated with orthodontic conditions stored therein. The central processing unit obtains measurements associated with selected points and dentition in the mouth of the patient and predicts orthodontic conditions of the patient based upon the measurements and the information in the database. The central processing unit recommends treatments to the patient based upon the predicted orthodontic conditions.

Classifications:

International (IPC 8-9): A61B6/14 A61C19/00 A61C19/04 A61C3/00 A61C7/00 A61C9/00 G06F19/00 (Advanced/Invention)

CPC: A61B6/14 A61C7/002 A61C19/04 A61C9/0046



Family:

Publication number	Publication date	Application number	Application date
AU2015202831 AA	20151217	AU20150202831	20150526
CA2892486 AA	20151203	CA20152892486	20150526
CN105232163 A	20160113	CN201510423660	20150527
EP2952152 A1	20151209	EP20150170212	20150602
JP2015229112 A2	20151221	JP20150112676	20150602
KR20150139465 A	20151211	KR20150078438	20150603
US2015342545 AA	20151203	US20140294404	20140603

Priority:

US20140294404 20140603

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Assignee(s): BERGERSEN EARL O

Inventor(s): (std): BERGERSEN EARL O

Agent(s): PETER MAXWELL AND ASSOCIATES; CASSAN MACLEAN; BECK GREENER

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