

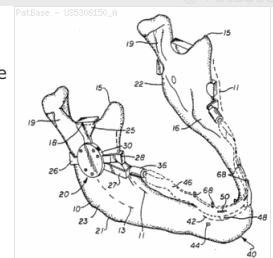
1) Family number: 11500198 (US5306150A)

DENTAL RAMUS IMPLANT

Abstract: Source: US5306150A A dental ramus implant consisting of a clamping device which can be used with little or no bone surgery in both a unilateral or bilateral fashion to secure either a fixed or removable prosthesis. The ramus clamp is semi-adjustable and attaches to an intermediate member or meso structure supported by two anterior endosseous fixtures. The overlying teeth are secured by conventional prosthodontic means. A method of designing this implant for several types of applications and a surgical method of use are outlined.

Probable Assignee: GITTLEMAN NEAL B

Earliest Publication Date: 19940426



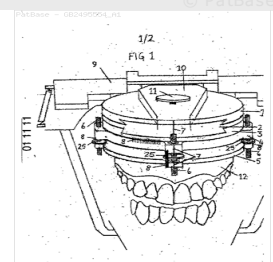
2) Family number: 50281206 (GB2495554A)

DENTAL MODEL REPOSITIONING ARTICULATOR ATTACHMENT FOR USE IN PRODUCTION OF ORTHOGNATHIC WAFERS

Abstract: Source: GB2495554A The device has five movable plates 1 5 and is an attachment for a dental articulator 9. It is situated between the articulator arm 10 and a cast dental model 12 for use in the production of intermediate and final wafers for orthognathic surgery. The top plate 1 is fixed to the articulator and has an interlocking engagement with plate 2 permitting relative motion along the anterior posterior axis. Plate 2 similarly interlocks with plate 3 but provides left and right lateral movements. Plate 3 provides left and right rotational movements which are measured on a scale 8. Plate 4 is connected to plate 5 using three equidistant screws 6. The screws vary the spacing between plates 4 and 5 for impaction and distraction movements. All five plates can be secured in place by tightening a lock washer (14, figure 2) on a locking bolt (13) which extends through the centre of the plates.

Probable Assignee: OSWIN TERRY A

Earliest Publication Date: 20130417



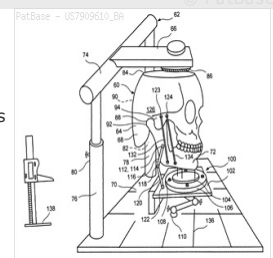
3) Family number: 48467396 (US7909610B)

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.

Probable Assignee: AMATO CRANIOFACIAL ENGINEERING LLC

Earliest Publication Date: 20110322



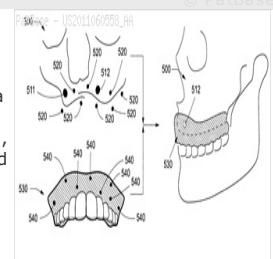
4) Family number: 43758471 (US2011060558A)

REPOSITIONING OF COMPONENTS RELATED TO CRANIAL SURGICAL PROCEDURES IN A PATIENT

Abstract: Source: US2011060558A Methods, systems, and computer-readable media are disclosed herein for virtually planning a cranial guided surgery in a subject. These include, in some embodiments, generating a first data set based on input data obtained of a reference structure having a defined fixed relation to a bone structure of said subject and generating a second data set based on input data obtained of a master structure for a surgical template, where the master structure has a defined relation to said reference structure. Further, in some embodiments, a third data set for production of said surgical can be generated based on the first data set and the second data set, wherein the relation of said reference structure to said master structure is preserved.

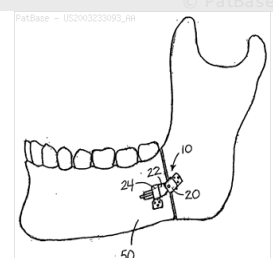
Probable Assignee: NOBEL BIOCARE SERVICES AG

Earliest Publication Date: 20090923



5) Family number: 29909494 (US2003233093A)

OSTEOGENIC DISTRACTION DEVICE



Abstract: Source: US2003233093A The invention involves an osteogenic mandibular distraction device. The device is particularly suited for buccal installation. The device comprises a thoracic member having a fore end and an aft end; a tail member slidably engaged to the thoracic member at the aft end thereof, thereby defining a longitudinal axis between the thoracic member and the tail member, and having a tail member fastening feature for attachment with respect to a first boney structure; an axial extender rotatably attached with respect to the thoracic member, extending therefrom in an aft direction, and engaged with respect to the tail member, whereby a distance between the thoracic member and the tail member may be variably established; a head member; and a rotator attached with respect to the fore end of the thoracic member allowing specific and fixable rotational positioning transverse to the longitudinal axis of the head member with respect to the thoracic member. The head member has a rear portion pivotably attached with respect to the fore end of the thoracic member, and a forward portion with a forward fastening feature for attachment with respect to a second boney structure.

Probable Assignee: MOLES RANDALL

Earliest Publication Date: 20031218

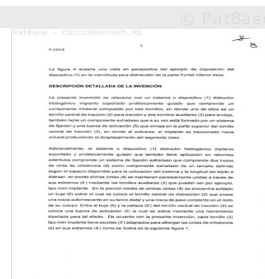
6) Family number: 70604578 (CO20180000065A)

DISTRACTOR HISTIOGENICO IMPLANTO SOPORTADO Y PROTESICAMENTE GUIADO PROTESICAMENTE HISTIOGENICO DISTRACTOR IMPLANTED SUPPORTED AND GUIDED (MACHINE TRANSLATION)

Abstract: Source: CO20180000065A La presente invencion esta dirigida a un sistema o dispositivo (1) distractor histiogenico implanto soportado protesicamente guiado para el desplazamiento de segmento oseo caracterizado porque comprende un componente intraoral compuesto por tres tornillos: un tornillo central de traccion (2) y dos tornillos auxiliares (3) y un sistema de fijacion extraoseo o componente extraoseo y una tuerca de activacion (5) que encaja en la parte superior del tornillo central de traccion (2) y en donde el sistema de fijacion extraoseo o componente extraoseo comprende dos trozos de cinta de ortodoncia (4) en donde dichas cintas (4) se mantienen paralelamente unidas a traves de sus extremos (4') que encajan a los costados de los tornillos auxiliares (3) que tienen escotes (3'). The present invention is directed to a system or device (1) for guiding the displacement of protesicamente histiogenico distractor supported implanted bone segment comprising an intraoral component composed of three screws: a central screw (2) and two screws (3) and a fastening system or component and a nut activation extraosseous extraosseous (5) that fits into the upper part of the central screw (2) and wherein the extraosseous fixation system or component comprises two pieces of orthodontics extraosseous (4) where said belts (4) are maintained at the same time joined through their ends (4') which fit on the sides of the screws (3) having recesses (3').

Probable Assignee: UNIV DEL VALLE

Earliest Publication Date: 20180710



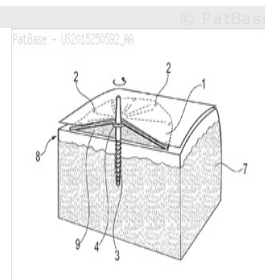
7) Family number: 56547716 (US2015250592A)

METHODS AND DEVICES FOR REGENERATING A BONE

Abstract: Source: US2015250592A Devices for regenerating a bone are provided. The devices include a non-dimensionally stable membrane that is stretchable and that has at least one edge or frame, at least three bone fixing elements provided at the at least one edge or frame, and a hole at a central area of the membrane with a strengthened edge. In addition, methods are provided for regenerating a bone by distraction, or by forwarding and transferring biomechanical impulses into a bone defect.

Probable Assignee: CELGEN AG

Earliest Publication Date: 20140530



8) Family number: 63453991 (EP3064167B1)

DISTRAKTIONSSSET, UMFASSEND EINE VORRICHTUNG ZUR DISTRAKTION BZW. DEHNUNG VON KNOCHENSEGMENTEN DISTRACTION SET, COMPRISING A DEVICE FOR DISTRACTION OR ELONGATION OF BONE SEGMENTS

Abstract: Source: EP3064167A1 Die Erfindung betrifft ein Distraktionsset, umfassend eine Vorrichtung zur Distraction von wenigstens zwei Knochensegmenten im Kiefer-, Gesichts- und Schaedelbereich mit einem Fuehrungselement (15; 55), das einen Mittelsteg (16; 56) und auf jeder Seite des Mittelstegs (16, 56) wenigstens einen sich rechtwinklig erstreckenden Seitensteg (17, 17', 18, 18'; 57, 57') aufweist, mit einer ersten (20; 58) und einer zweiten (21; 59) Gewindestange, wobei eine jede Gewindestange (20, 21; 58, 59) zwei gegenlaeufige Gewindegaenge (23, 23') aufweist, und mit wenigstens vier Retentionskoerpern (25, 25', 26, 26'), wobei jeder Retentionskoerper (25, 25', 26, 26') eine Bohrung (31) mit einem Innengewinde (32) zur Aufnahme eines Schraubgewindes (23, 23') einer Gewindestange (20, 21) aufweist und jeder Retentionskoerper (25, 25', 26, 26') eine weitere Bohrung (30) aufweist, durch die sich ein Seitensteg (17, 17', 18, 18'; 57, 57') des Fuehrungselements (15, 55) erstreckt, und wobei durch Drehung der Gewindestangen (20, 21) jeweils die mit der Gewindestange (20, 21) verbundenen Retentionskoerper (27, 27', 28, 28') seitlich nach aussen spreizbar sind. The invention relates to a Distraction set comprising a device for the distraction of at least two bone segments in the jaw, face and skulls area with a Fuehrungselement (15; 55) having a central web (16; 56) and on each side of the central web (16, 56) at least one perpendicularly extending side web (17, 17', 18, 18'; 57, 57'), comprising a first (20; 58) and a second (21; 59) threaded rod, wherein each threaded rod (20, 21; 58, 59) two opposing Gewindegaenge (23, 23'), and having at least four Retentionskoerpern (25, 25', 26, 26'), each Retentionskoerper (25, 25', 26, 26') has a bore (31) with an internal thread (32) for receiving a screw thread (23, 23') a threaded rod (20, 21) and each Retentionskoerper (25, 25', 26, 26'), a further bore (30), through which a side web (17, 17', 18, 18'; 57, 57') of the Fuehrungselements (15, 55), and wherein by rotation of the threaded rods (20, 21) each connected to the threaded rod (20, 21) connected Retentionskoerper (27, 27', 28, 28') are outwardly spread apart laterally.

Probable Assignee: MEDICON EG CHIRURGIEMECHANIKER GENOSSENSCHAFT

Earliest Publication Date: 20160907

