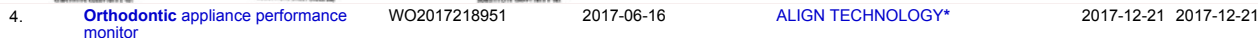
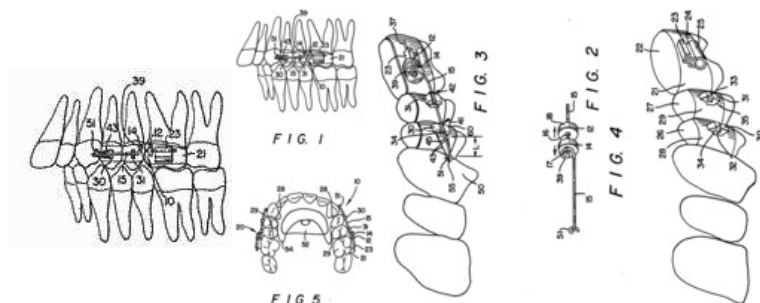
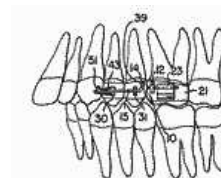


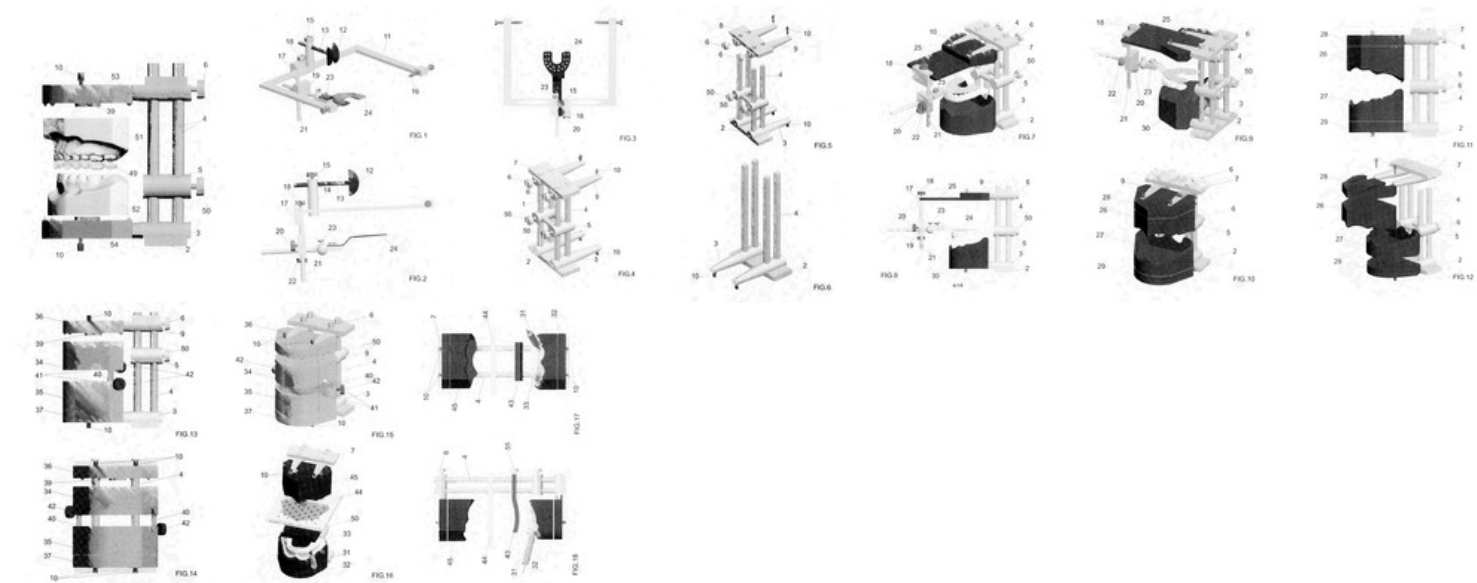
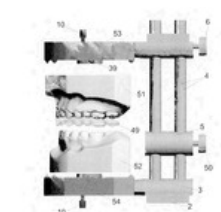
$\frac{1}{6}$



An **orthodontic** appliance for intraorally distalizing teeth without patient compliance, comprising a pair of small complementary permanent magnetic elements slidably mounted on a single common sectional wire in an arrangement to repel one another, and means for maximally reengaging the magnetic elements along the sectional wire. This arrangement avoids undesirable eccentric magnetic movement and maximizes control of the repelling horizontal magnetic forces.



The Modular system for the realization of **orthodontic** Gipsoteca models with the faithful tilting of the individual occlusal plane and mobile and fixed prostheses and other **orthodontic** aids such as bites or splints, comprises a first module consisting of a supporting device (1) and additional aids, such as bases, muffles, little frames, curved and flat plates, a base for the transfer of static relationships between the dental arches, the individual face bow and the injection piston, suitable to make up, in combination with the device (1), additional modules. The present invention allows to facilitate different dental, processing techniques and reduce processing times and possible errors caused by the realization and the squaring of the artifact.



7.

Orthodontic bracket bonding robot

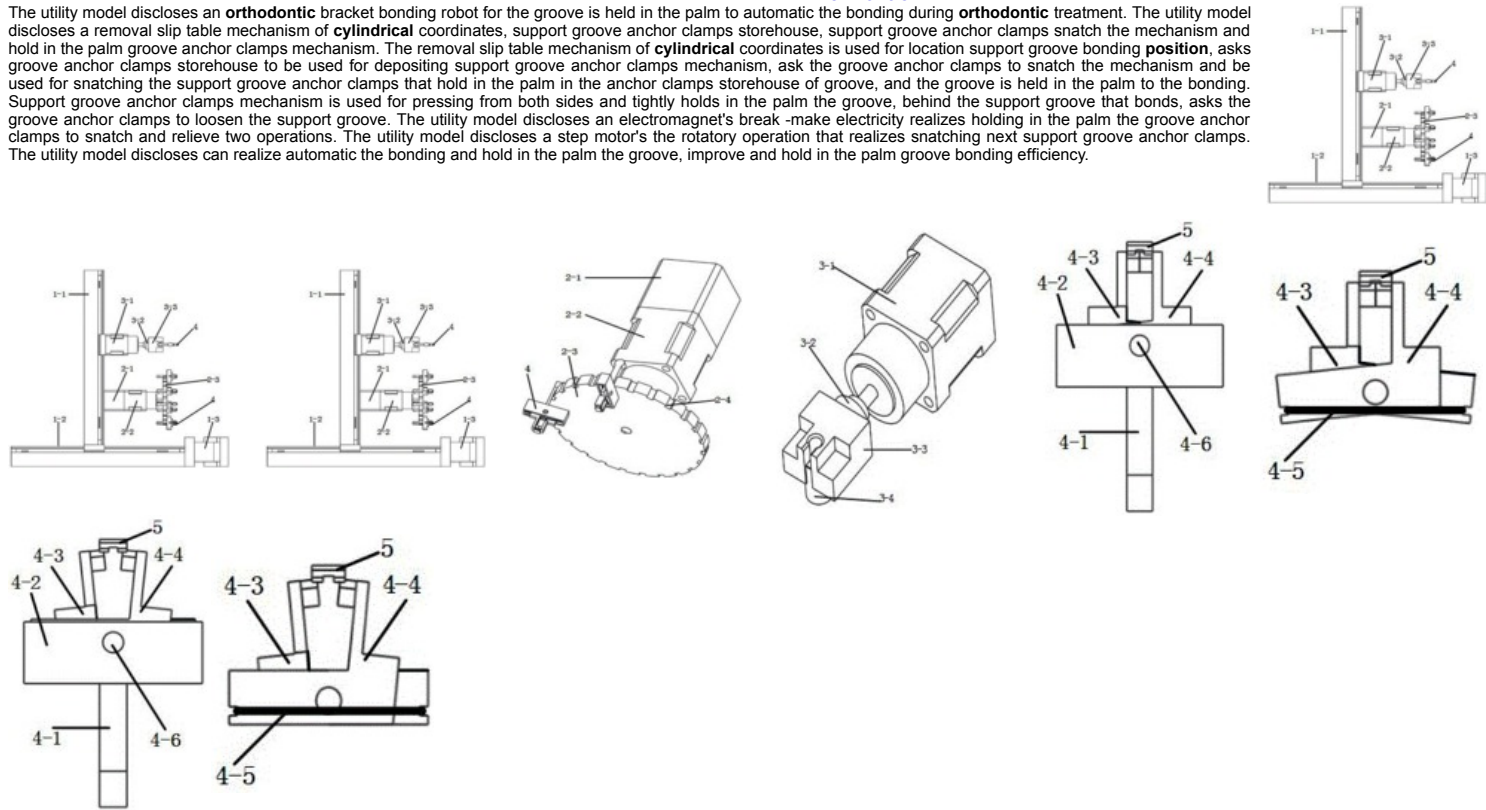
CN205672090

2016-04-29

HARBIN UNIVERSITY OF SCIENCE & TECHNOLOGY*

2016-11-09 2016-11-09

The utility model discloses an **orthodontic bracket bonding robot** for the groove is held in the palm to automatic the bonding during **orthodontic** treatment. The utility model discloses a removal slip table mechanism of **cylindrical** coordinates, support groove anchor clamps storehouse, support groove anchor clamps snatch the mechanism and hold in the palm groove anchor clamps mechanism. The removal slip table mechanism of **cylindrical** coordinates is used for location support groove bonding **position**, asks groove anchor clamps storehouse to be used for depositing support groove anchor clamps mechanism, ask the groove anchor clamps to snatch the mechanism and be used for snatching the support groove anchor clamps that hold in the palm in the anchor clamps storehouse of groove, and the groove is held in the palm to the bonding. Support groove anchor clamps mechanism is used for pressing from both sides and tightly holds in the palm the groove, behind the support groove that bonds, asks the groove anchor clamps to loosen the support groove. The utility model discloses an electromagnet's break -make electricity realizes holding in the palm the groove anchor clamps to snatch and relieve two operations. The utility model discloses a step motor's the rotatory operation that realizes snatching next support groove anchor clamps. The utility model discloses can realize automatic the bonding and hold in the palm the groove, improve and hold in the palm groove bonding efficiency.



8.

Orthodontic medical appliance

JP2002102257

2000-10-04

HITACHI METALS*

2002-04-09 2002-04-09

PROBLEM TO BE SOLVED: To provide an **orthodontic** medical appliance having no hygienic problem in mouth, capable of applying sufficient repulsion in spite of having a small size, hardly damaging teeth, and capable of performing accurate **orthodontic** therapy. SOLUTION: This medical appliance comprises a pair of **magnet** structures inclosing permanent magnets; a holder having a shape allowing movement of the **magnet** structures only along nearly one axis; and fixing members for fixing the medical appliance in a mouth, fixed to the respective **magnet** structures. The pair of **magnet** structures are disposed in the holder such that the **magnet** structures magnetically repel each other.



9.

Palatal retention device

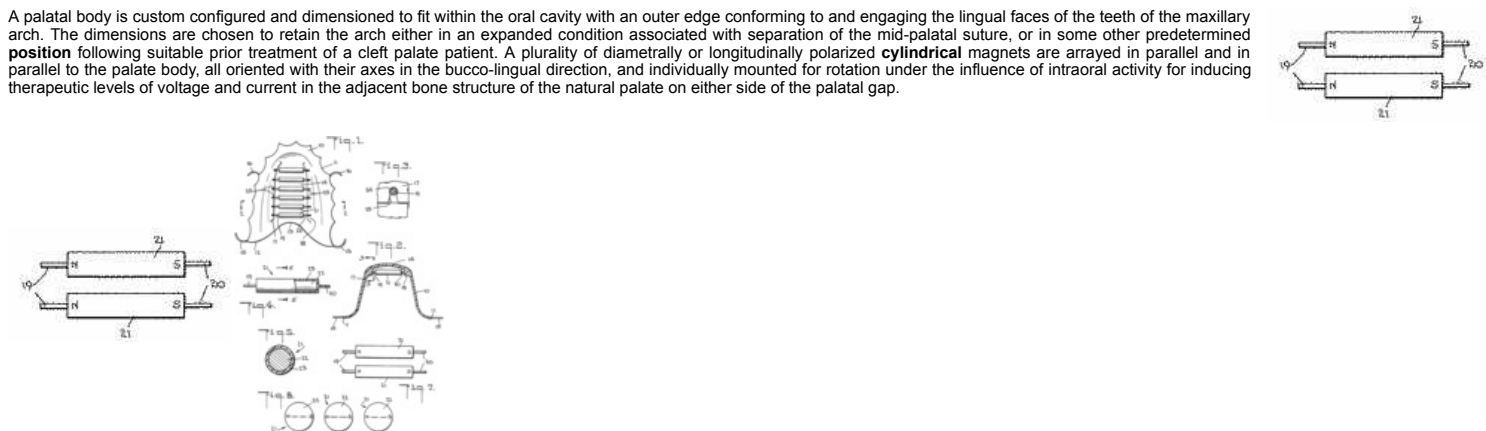
US4526539

1984-02-29

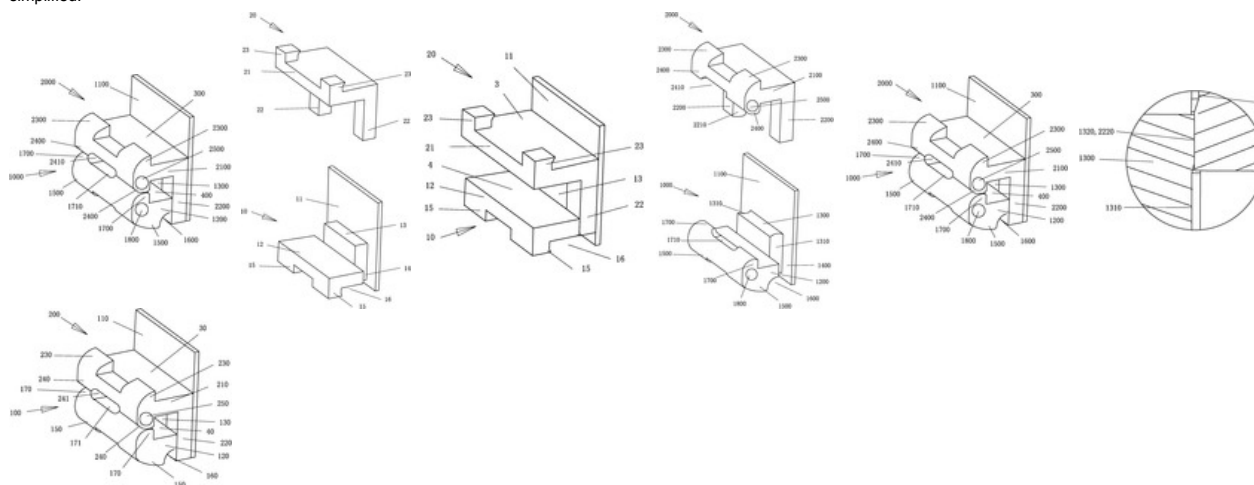
MEDICAL MAGNETICS*

1985-07-02 1985-07-02

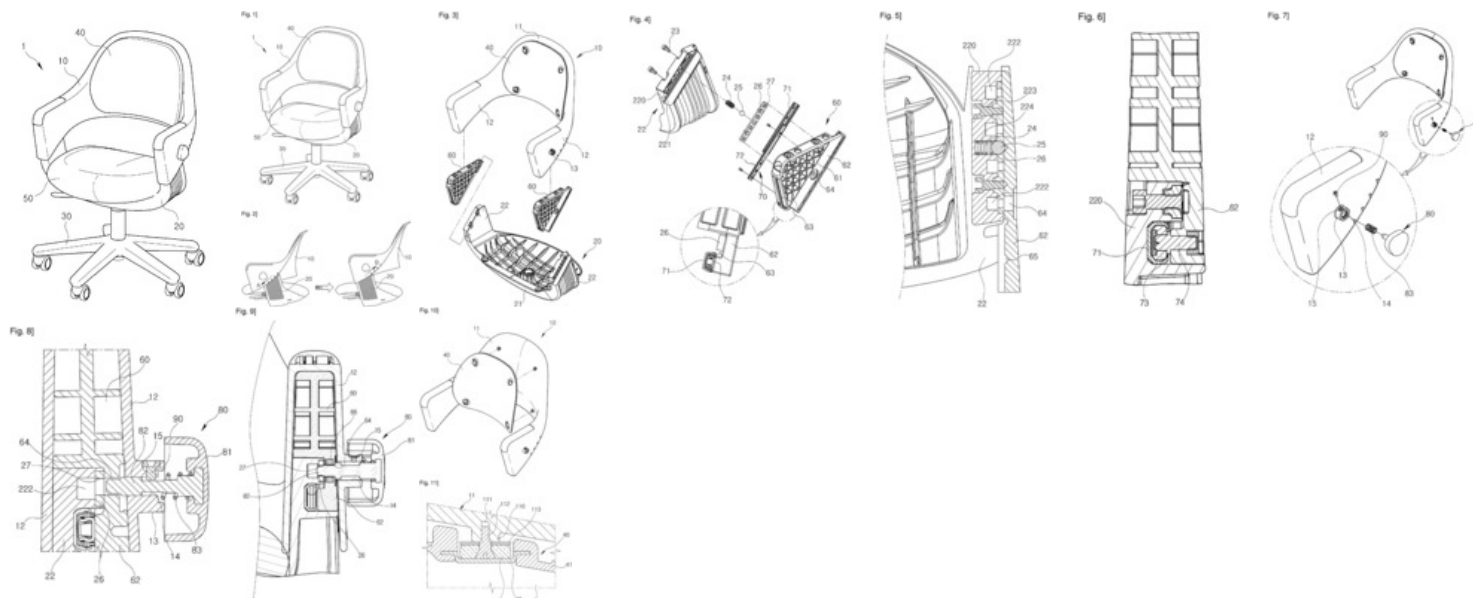
A palatal body is custom configured and dimensioned to fit within the oral cavity with an outer edge conforming to and engaging the lingual faces of the teeth of the maxillary arch. The dimensions are chosen to retain the arch either in an expanded condition associated with separation of the mid-palatal suture, or in some other predetermined **position** following suitable prior treatment of a cleft palate patient. A plurality of diametrically or longitudinally polarized **cylindrical** magnets are arrayed in parallel and in parallel to the palate body, all oriented with their axes in the bucco-lingual direction, and individually mounted for rotation under the influence of intraoral activity for inducing therapeutic levels of voltage and current in the adjacent bone structure of the natural palate on either side of the palatal gap.



2015-03-11 2015-03-11



2013-01-31 2013-01-31



Apparatus for the alleviation of sleep apnoea in which dentition engagement units or dental overlays shaped to engage the maxillary and mandibular dentition of a subject each having a laterally located pair of flanges the ends of which almost abut, magnets embedded in said flanges with their like poles adjacent or sinusoidally-shaped extension elements made from shape-memory material having a transition temperature equal to or slightly less than normal body temperature and accommodated in cavities in said flanges provide, respectively, a magnetic repulsion force or expansive force when warmed by body heat sufficient, during sleep-induced relaxation, to displace said mandibular dentition engagement unit or dental overlay forwardly in relation to said maxillary dentition engagement unit, displacing the mandible of the subject and thereby effecting a displacement of the temporomandibular joint.

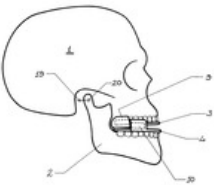


Fig 1

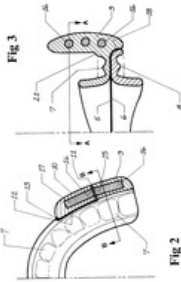


Fig 2

