

(12) 按照专利合作条约所公布的国际申请

(19) 世界知识产权组织
国际局

(43) 国际公布日
2012 年 12 月 27 日 (27.12.2012)



(10) 国际公布号
WO 2012/174954 A1

- (51) 国际专利分类号:
A61F 2/20 (2006.01) A61L 27/06 (2006.01)
A61F 5/56 (2006.01) A61L 27/50 (2006.01)
- (21) 国际申请号: PCT/CN2012/075238
- (22) 国际申请日: 2012 年 5 月 9 日 (09.05.2012)
- (25) 申请语言: 中文
- (26) 公布语言: 中文
- (30) 优先权:
201110169918.5 2011 年 6 月 22 日 (22.06.2011) CN
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本国际公布:

- 包括国际检索报告(条约第 21 条(3))。

(54) Title: SOFT PALATE SUPPORT HAVING LAYERED STRUCTURE AND IMPLANTING METHOD

(54) 发明名称: 层状结构的软腭支撑体及植入方法

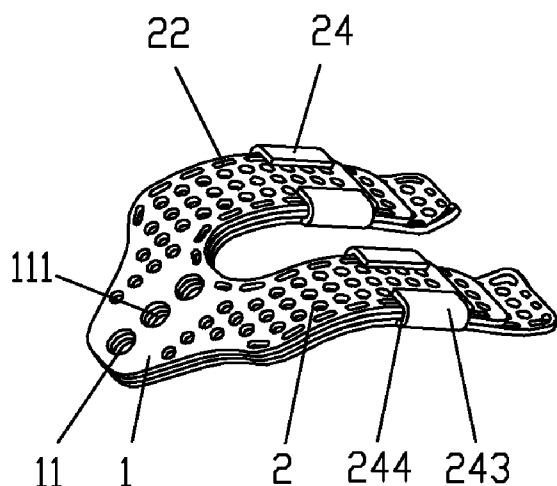


图 14 / Fig. 14

(57) Abstract: A soft palate support having a layered structure (3) for treating sleep apnea syndrome or snoring and an implanting method. The soft palate support having a layered structure (3) is a flat implant made of a material capable of being implanted into a human body for a long time, and comprises a hard palate connecting end (1) and a supporting body (2). The supporting body (2) is a layered structure capable of being inserted into a soft palate (7) and is formed from two or more than two layers of supporting boards (21) superposed. The supporting body (2) is fixed to the hard palate connecting end (1) removably or non-removably. A connecting structure (11) connected with the hard palate (6) is disposed on the hard palate connecting end (1). The hard palate connecting end (1) is fixed to the hard palate (6) by the connecting structure (11). The supporting body (2) is implanted into muscular layers of the soft palate (7), the supporting body (2) being inserted into the soft palate (7) by a length equal to 1/5 to 4/5 of the total length of the soft palate (7). The layered structure formed by the superposed supporting boards (21) ensures the supporting force, enhances the compliance of the supporting body (2), and substantially improves the fatigue life of the supporting body (2).

(57) 摘要:

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一种治疗睡眠呼吸暂停综合症或鼾症的层状结构的软腭支撑体（3）及植入方法，所述层状结构的软腭支撑体（3）是用可以在人体中长期植入的材料制成的扁平状植入物，含有硬腭连接端（1）和支撑体（2），支撑体（2）是能插入软腭（7）中的由2层或2层以上的支撑板（21）叠加后形成的层状结构，该支撑体（2）可拆卸地或不可拆卸地固定于硬腭连接端（1）；硬腭连接端（1）上设有与硬腭（6）相连接的结构（11）；硬腭连接端（1）通过该结构（11）固定于硬腭（6）上，支撑体（2）植入软腭（7）的肌层内，其插入软腭（7）的长度在软腭（7）总长度的1/5至4/5之间。支撑板（21）叠加后形成的层状结构，在保证支撑力的同时，不仅提高了支撑体（2）的顺应性，也大幅度提高了支撑体（2）的疲劳寿命。