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## Study on the Crystal Heat Treatment Schedule of Plat-II Castable Ceramic

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### Abstract

**Objective:** To establish the crystal heating schedule of Plat-II castable ceramic materials. **Methods:** This study first identified the thermal limits of Plat-II castable ceramic crystallization basing on DTA exotherm analysis, then the crystal density of various heating schedule was observed by scanning electron microscope. **Results:** The efficient crystal heating schedule of Plat-II castable ceramic was established: The temperature was increased from the room temperature to 620 °C with the speed of 10 °C/min, kept 20min, then was increased continually to 670 °C with the speed of 5 °C/min, and kept 30min. **Conclusion:** The establishment of the crystal heat treatment schedule of Plat-II castable ceramic will become the basis for the further study.

**Key words:** castable-ceramic crystallization crystal

### · 方法介绍 ·

## 简易机械固位式 架的研制与临床应用

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架是制作全口义齿和复杂局部活动义齿的必需器械之一。架种类较多,但均采用调拌石膏固定模型。笔者经多年研制,成功地用不锈钢制造出一种不用石膏固位的简易机械固位式 架。现介绍如下。

该简易机械固位式 架由上颌夹模盘、下颌夹模盘、连接体和可定向、定位固定模型的辅助装置构成(图 1)。  
架可作开合运动。上下颌石膏模型分别夹在上下颌夹模盘上。夹模盘直径 90 mm,厚 4 mm。盘的周边有 3 个等距离向心性固位螺钉,调节螺钉,可使模型按要求固定在夹模盘上。上颌夹模盘中央有与之垂直的中轴,由一球形关节与上颌夹模盘连接;旋动中轴,可使上颌夹模盘上下移动,容纳不同厚度的石膏模型。利用球形关节可能上颌夹模盘随模型底的平面作前后左右倾斜。中轴周围另有 3 个垂直向下的螺钉,调节 3 个螺钉同时与夹模盘接触,可固定夹模盘在所需的位置。将上下颌模型连同颌位记录一起放在下颌夹模盘上,旋紧 3 个固位钉,固定下颌模型,再按模型的厚度和上颌模型底平面斜度,调节中轴和上颌夹模盘固位钉,可使上颌夹模盘与模型底平面接触,再旋紧 3 个模型固位钉,上架即告完成。

作者应用该 架已为 156 例患者(男 82 例,女 74 例)

制作 286 件义齿,其中全口义齿 200 件,局部复杂义齿 86 件。戴义齿时均保持了上架时的咬合关系。

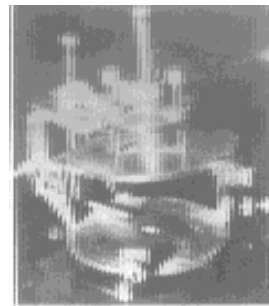


图 1 简易机械固位式 架

简易机械固位式 架采用机械固位,结构简单、合理,装卸模型简便、快捷、省时、省力,安全、卫生,能提高工效 5~ 10 倍。

(此 架已申请专利,专利号: 96233517. 7)

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