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202221064303.6 2022 年 5 月 6 日 (06.05.2022) CN
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- (81) 指定国(除另有指明, 要求每一种可提供的国家保护): AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG,

(54) Title: CULTURE VESSEL ACTIVE OSCILLATION-TYPE SLIDING TABLE MECHANISM AND SHAKER INCUBATOR

(54) 发明名称: 培养器皿主动震荡式滑台机构及摇床培养箱

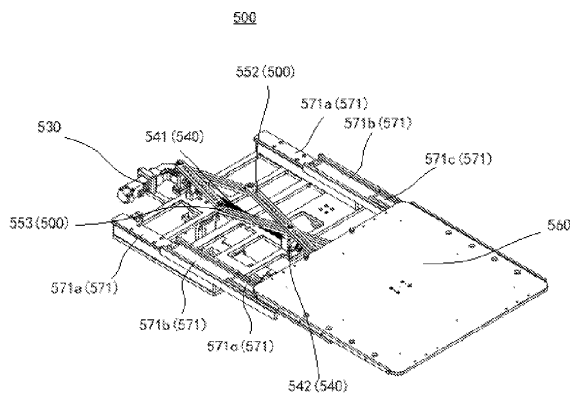


图 7

(57) Abstract: The present application provides a culture vessel active oscillation-type sliding table mechanism and a shaker incubator, which can ensure that the culture vessel in the shaker incubator is completely extended while improving the overall rigidity and smoothness of the sliding table mechanism, avoiding the generation of a side bending moment, and at the same time simplifying the assembling complexity of a stroke amplification mechanism and thus reducing the number of parts. The culture vessel active oscillation-type sliding table mechanism comprises a sliding table power transmission apparatus, a sliding table stroke amplification mechanism, and a sliding table mounting plate. The sliding table power transmission apparatus converts the rotary motion of an output shaft of a sliding table driving motor into a linear displacement in the width direction. The sliding table stroke amplification mechanism amplifies the stroke of the linear displacement of the sliding table power transmission apparatus in the width direction. Multiple stages of rigid tracks are mounted on both sides, located in the length direction of an incubator main body, of the sliding table mounting plate. The multiple

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IR, IS, IT, JM, JO, JP, KE, KG, KH, KN, KP, KR, KW, KZ,
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- (84) 指定国(除另有指明，要求每一种可提供的地区
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stages of rigid tracks partially slide out relative to each other by means of each stage of track for supporting a carrier mounting plate of the completely extended culture vessel after the stroke is amplified.

(57) 摘要: 本申请提供一种培养器皿主动震荡式滑台机构及摇床培养箱，能确保使摇床培养箱中的培养器皿的完全伸出的同时，提升滑台机构整体的刚度和平稳性，避免侧弯矩的产生，同时能简化行程放大机构的装配复杂程度，减少零件数量。所述培养器皿主动震荡式滑台机构包括滑台动力传动装置、滑台行程放大机构和滑台安装板。滑台动力传动装置能将滑台驱动电机的输出轴的旋转运动转换为宽度方向上的直线位移。滑台行程放大机构将滑台动力传动装置在宽度方向上的直线位移的行程放大。在滑台安装板的、位于培养箱主体的长度方向上的两侧安装有刚性的多级轨道。多级轨道通过各级轨道相对于彼此部分地滑出，用以对行程被放大后的完全伸出的培养器皿载架安装板进行支承。