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(54) Title: DETECTION SYSTEM

(54) 发明名称: 检查系统

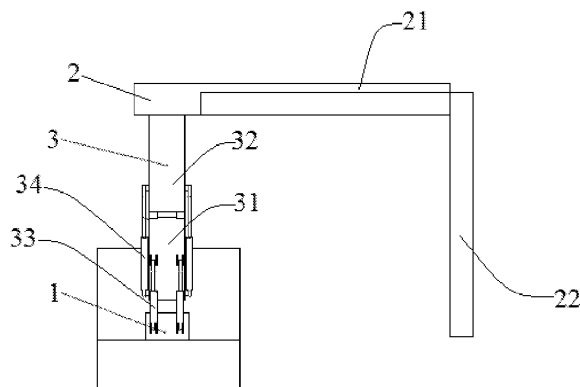


图 3

(57) Abstract: A detection system. The detection system comprises a base (1), an arm bracket lifting mechanism (3) which is arranged on the base (1) and an arm bracket (2) which is installed with a detector. The arm bracket lifting mechanism (3) comprises at least two support arms which are arranged in sequence. The at least two support arms comprise a base arm (31) at the lowest bottom end and a tail arm (32) at the extreme end. The base arm (31) is connected to the base (1) while the arm bracket (2) is installed on the tail arm (32). The detection system is provided with a scanning state and a transportation state; two adjacent support arms of the at least two support arms are rotatably connected such that the arm bracket (2) is at different heights when in the scanning state and the transportation state. The arm bracket lifting mechanism (3) of the detection system lifts and lowers the arm bracket (2) by means of the two adjacent support arms being rotatably connected. Compared with the existing technology in which the arm bracket (2) is lifted directly in a vertical direction, driving force is smaller in the present invention, and thus the weight of a driving mechanism which is used for driving the lifting of the arm bracket (2) is relatively small, thereby reducing the dead weight of the detection system.

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**本国际公布:**

— 包括国际检索报告 (条约第21条(3))。

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**(57) 摘要:** 一种检查系统。检查系统包括底座(1)、设置于底座(1)上的臂架升降机构(3)和安装探测器的臂架(2)。臂架升降机构(3)包括依次设置的至少两个支撑臂。至少两个支撑臂包括处于最底端的基本臂(31)和处于最末端的末节臂(32)。基本臂(31)与底座(1)连接, 臂架(2)安装于末节臂(32)上, 检查系统具有扫描状态和运输状态, 至少两个支撑臂中相邻的两个支撑臂可转动地连接以使得臂架(2)在扫描状态和运输状态时处于不同的高度。检查系统的臂架升降机构(3)通过使相邻的两个支撑臂可转动地连接而将臂架(2)进行升降, 与现有技术中的直接在竖直方向上对臂架(2)进行提升相比, 所需驱动力较小, 因此用来驱动臂架(2)提升的驱动机构的重量较小, 从而减轻检查系统的自重。