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(54) Title: ROTATING ARC SENSOR

(54) 发明名称: 一种旋转电弧传感器

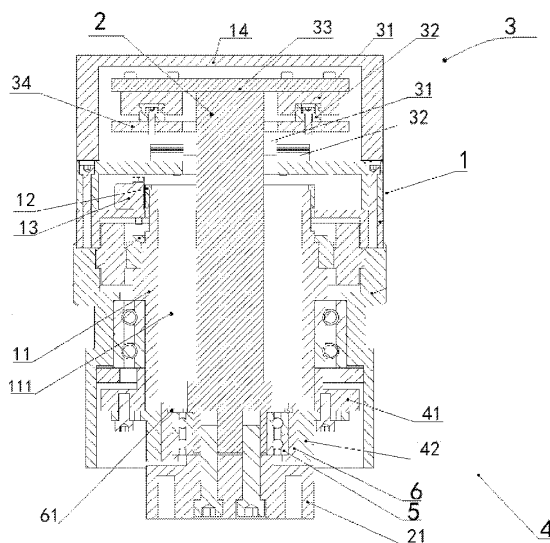


图 1

(57) Abstract: Disclosed is a rotating arc sensor. The rotating arc sensor comprises an electric motor (1), a connecting rod (2) used for driving a welding gun (7) to move annularly, a sliding assembly (3) used for supporting the weight of the connecting rod (2) and supporting one end of the connecting rod (2) to move freely, and an eccentric swinging part (4) used for driving the other end of the connecting rod (2) to move annularly, wherein a hollow cavity (111) capable of communicating two ends of the electric motor (1) is arranged in the center of a rotating shaft (11) of the electric motor (1); the sliding assembly (3) is arranged on a top end of the electric motor (1); one end of the connecting rod (2) passes through the hollow cavity (111) to extend out of the top end of the electric motor (1);

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(1) and to be connected to the sliding assembly (3); the eccentric swinging part (4) comprises a first flange (41) and a second flange (42); and the other end of the connecting rod (2) extends into the second flange (42) and is connected to an inner wall of the second flange (42) through a bearing assembly. According to the present application, the welding gun (7) is detachably arranged outside the arc sensor on the basis that the accuracy of the motion trajectory of the welding gun (7) is ensured, such that the effect of conveniently and quickly maintaining and replacing the welding gun (7) is achieved.

(57) 摘要: 一种旋转电弧传感器, 所述旋转电弧传感器包括电机 (1)、用于带动焊枪 (7) 环形运动的连接杆 (2)、用于支撑连接杆 (2) 的重量并支持连接杆 (2) 的一端自由运动的滑动组件 (3)、用于带动连接杆 (2) 的另一端环形运动的偏心摆动件 (4), 电机 (1) 的转轴 (11) 的中心设有能够连通电机 (1) 两端的空心腔 (111), 滑动组件 (3) 设置在电机 (1) 的顶端, 连接杆 (2) 的一端通过所述空心腔 (111) 伸出电机 (1) 的顶端并和滑动组件 (3) 连接, 偏心摆动件 (4) 包括第一法兰 (41) 和第二法兰 (42), 连接杆 (2) 的另一端伸入第二法兰 (42) 内并通过轴承组件和第二法兰 (42) 内壁连接。本申请在能够确保焊枪 (7) 运动轨迹精确的基础上, 将焊枪 (7) 可拆卸地设置在电弧传感器的外部, 实现了对焊枪 (7) 维修、更换便捷的效果。