ABSTRACT

ANTI-DROP DEVICE AND OVERHEAD HOIST VEHICLE INCLUDING THE SAME

An anti-drop device and an overhead hoist vehicle applied in the technical field of automatic control are provided according to the present application. The anti-drop device includes a mounting plate (3), an electrical motor (4), a first support seat, a second support seat, a ball screw (5), a slider connecting seat (8), and a quadrilateral linkage mechanism. The quadrilateral linkage mechanism includes a quadrilateral linkage structure including a first connecting arm (15), a second connecting arm (16), a third connecting arm (17) and the fourth connecting arm (18). The electrical motor (4), the first support seat, and the second support seat are installed on the mounting plate (3), and the second connecting arm (16) and the fourth connecting arm (18) are respectively installed on the mounting plate (3) through corresponding bearing seat (13). The ball screw (5) passes through the slider connecting seat (8) and is supported between the first support seat and the second support seat. The slider connecting seat (8) is connected to the first connecting arm (15), and an output shaft of the electrical motor (4) is connected to the ball screw (5).

Figure 1