

TITLE OF INVENTION: STACKER

ABSTRACT

A stacker includes a traveling device, which includes a traveling box (100), a friction transmission mechanism (200) mounted in the traveling box (100), and a horizontal positioning assembly (101) for positioning a traveling position. The friction transmission mechanism (200) includes a friction drive wheel (201) in friction fit with a friction track (901) and a traveling power mechanism (202). The stacker further includes a lifting device, which includes a lifting frame (300) mounted at the top of the traveling box (100), a robotic arm carrier assembly (400) mounted on the lifting frame (300), a lifting transmission assembly for driving the robotic arm carrier assembly (400) to be lifted or lowered, a lifting power mechanism (501) for driving the lifting drive assembly, and a vertical positioning assembly (401) for positioning a lifting position of the robotic arm carrier assembly (400). The stacker further includes a control device (600), which is configured to control the traveling power mechanism (202) to drive the traveling device to travel to a target traveling position according to the traveling position fed back by the horizontal positioning assembly (101), and further configured to control the lifting power mechanism (501) to drive the robotic arm carrier assembly (400) to be lifted to a target lifting position according to the lifting position fed back by the vertical positioning assembly (401). The stacker can realize accurate positioning in a traveling direction and a lifting direction.

FIG. 1