

TITLE OF INVENTION: ROBOT SYSTEM

ABSTRACT

The present disclosure provides a robot system, including: a vehicle main body; a grasping mechanism, disposed on the vehicle main body and configured to grasp and convey objects; and a material tray, disposed on the vehicle main body and including a fixed material tray fixedly disposed on the vehicle main body and a sliding material tray slidably disposed on the vehicle main body in a first direction, both the fixed material tray and the sliding material tray are provided with loading stations, the vehicle main body is provided with an initial position located directly below the fixed material tray and a feeding position located on one side of the fixed material tray in the first direction, and the sliding material tray is configured to move between the initial position and the feeding position. While the grasping mechanism grasps the object, the sliding material tray moves from the initial position to the feeding position, and the grasping mechanism places the grasped object on the loading station of the sliding material tray located at the feeding position. The robot system introduces a slidable material tray, which effectively solves the problem of low transportation efficiency and safety caused by the traditional material tray structure.

FIG. 2