SLIDING RAIL, ROBOT, CONVEYING MECHANISM, AND ROBOT LOAD DOCKING SYSTEM

ABSTRACT

The present disclosure discloses a sliding rail and a robot; the sliding rail includes a sliding rail body, the sliding rail body is provided thereon with a self-locking mechanism, at least one power supply module, and a driving mechanism; the robot includes a chassis, a housing mounted on the chassis, and a plurality of interchangeable functional modules; the functional modules are put in the housing through the sliding rail, and get electric energy and power through the power supply module and the driving mechanism on the sliding rail. The present invention further discloses a conveying mechanism and a robot load docking system including the conveying mechanism and the above robot, the conveying mechanism is mounted on the sliding rail and configured to connect the robot with other apparatuses so as to realize transferring of the functional modules. Advantageous effect of the present invention is that: the sliding rail enables assembly of the functional modules to achieve standardization and universality, and enables the robot to become a multi-functional platform.

Fig. 1