

ABSTRACT

A robot and a robot-based container storage and removal method. The robot comprises: a master control processing unit (110), a pick-and-place mechanism (120) and a marker
5 detection unit (130), wherein according to target storage and removal position information of a target inventory container, the master control processing unit (110) controls a robot body to move to a first horizontal position and controls the pick-and-place mechanism (120) to move to a first height position; when the robot body and the pick-and-place mechanism (120) stop
10 moving, the marker detection unit (130) determines a target pick-and-place marker from a target inventory support to which the target inventory container belongs; and the master control processing unit (110) also calibrates the position of the pick-and-place mechanism (120) according to the position of the target pick-and-place marker, so as to control the calibrated pick-and-place mechanism (120) to perform a storage operation or a removal
15 operation on the target inventory container. By means of the solution, a pick-and-place position of a pick-and-place mechanism (120) of the robot can be precisely positioned and moved, such that the pick-and-place mechanism (120) can quickly and accurately store or remove a target inventory container.