GOODS CONTAINER TRANSFER ROBOT AND METHOD USING SAME

ABSTRACT

A goods container transfer robot includes a robot carrier and a gantry arranged on the robot carrier, and further includes a picking mechanism. The picking mechanism includes a body slidably connected to the gantry and a pair of clamping forks slidably connected to the body, and each clamping fork includes an intermediate assembly slidably connected to the body and a distal arm slidably connected to the intermediate assembly and configured to pull a goods container. The intermediate assembly includes a plurality of detachable independent arms, and the plurality of independent arms are configured to slide relative to each other. The body includes a driving mechanism configured to drive each clamping fork, and each independent arm includes a linkage mechanism linked with the driving mechanism.

Fig. 3