

TITLE OF INVENTION: IN-WAREHOUSE PICKING SYSTEM AND CONVEYING SYSTEM

ABSTRACT

An in-warehouse picking system and a conveying system, relating to the technical field of warehousing picking. A stereoscopic warehouse comprises a plurality of goods shelves (10), each goods shelf having a multi-layer storage space, goods boxes being placed at storage sites of the storage spaces, and a goods picking apparatus (1) being installed on each goods shelf. According to a current order: each goods picking apparatus drives a first task module to place goods into a docking assembly or a docking box of a goods-carrying robot (105) running at the bottom of each goods shelf, or to retrieve same from the docking assembly or the docking box (4) and put same into the goods boxes (104); each first task module (2) at least comprises a first moving member (13) and a picking mechanism (20); a partition plate (102) having one or more storage sites on the bottommost goods shelf layer is removed from each goods shelf, so as to provide a passage for the goods-carrying robots on the ground; or one or more goods shelf layers (106) are removed from each goods shelf, so as to provide a matching height for supporting the operation of the goods-carrying robots on the ground. The present application mitigates the technical problems of low utilization rate of warehousing spaces, slow goods inflow and outflow speeds, and low sorting efficiency of existing in-warehouse picking systems in the prior art.

FIG. 3