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(54) Title: IN-WAREHOUSE PICKING SYSTEM AND CONVEYING SYSTEM

(54) 发明名称: 在库拣选系统和传输系统

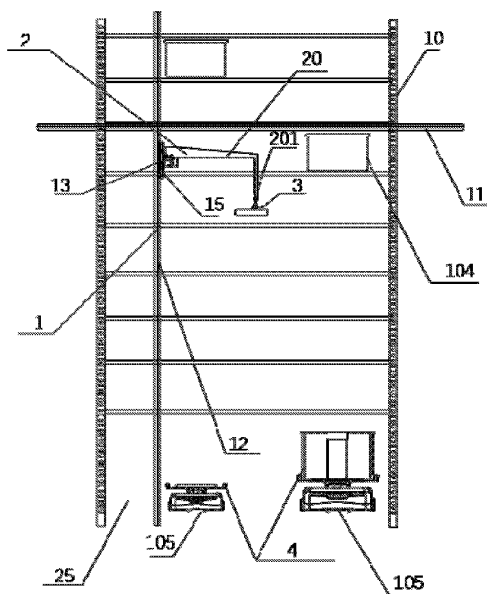


图 3

(57) 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

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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.

(57) 摘要: 一种在库拣选系统和传输系统, 涉及仓储拣选的技术领域, 立体仓库包括多个货架(10), 货架设置有多层存储空间, 并在存储空间的储位放置货箱, 在货架上安装货物拣选设备(1), 根据当前订单: 货物拣选设备带动第一任务模块将货物放入运行在货架底部的货运机器人(105)的接驳组件或接驳箱, 或从接驳组件或接驳箱(4)取出放入货箱(104)内; 第一任务模块(2)至少包括: 第一活动件(13)和拣选机构(20); 货架取下最底层货架层的一个或多个储位的隔板(102), 提供地面货运机器人作为通道; 或者, 货架取下一个或多个货架层(106), 以提供匹配高度, 支持货运机器人在地面运行。其缓解了现有技术中存在的在库拣选系统的仓储空间利用率较低, 货物进出速度较慢, 以及分拣效率较低的技术问题。