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(54) 发明名称: 拣货调度系统、方法及装置

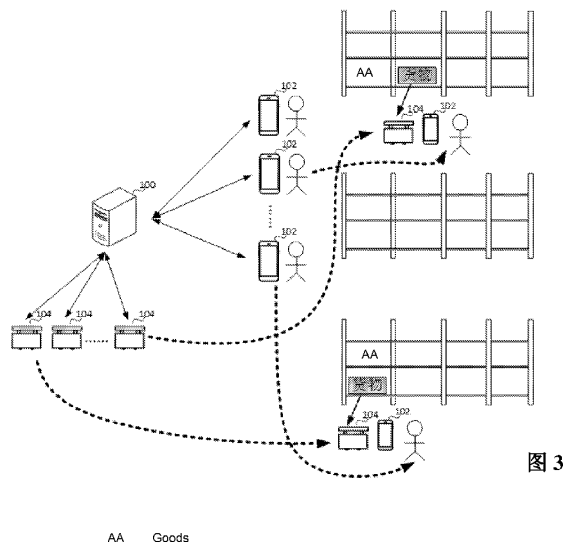


图 3

(57) Abstract: Disclosed in the present description are a picking scheduling system, method and apparatus, the method comprising: for each piece of goods to be picked, planning a path for a user and a carrying device to reach the location of the goods according to the location of the goods to be picked, an initial position of each user bearing terminal and an initial position of each carrying device; then according to each determined path plan and allocated orders to be picked, matching the user and the carrying device to determine a plurality of tasks to be selected, and determining the moment for picking for each task to be selected; and then determining a target task

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according to the sequence of moments for picking for each task to be selected, and sending the target task to the user and the carrying device, such that the user and the carrying device cooperative for picking. By respectively planning the paths of a carrying device and a user, goods to be picked having the shortest time consumption may be searched for from among goods to be picked so as to carry out picking, and moving time consumption during picking is reduced under the condition that a conventional warehouse is not modified, achieving an improvement in picking efficiency.

(57) 摘要: 本说明书公开了一种拣货调度系统、方法及装置, 针对每个待拣货物, 根据待拣货物所在货位位置、各用户携带终端的起始位置、各搬运设备的起始位置, 对用户以及搬运设备到达该货位的路径进行规划, 之后根据确定出的各路径规划以及已经分配的待拣货订单, 进行用户与搬运设备的匹配确定若干待选任务, 并确定各待选任务进行拣货的时刻, 然后根据各待选任务拣货的时刻先后顺序确定目标任务, 并向用户以及搬运设备发送该目标任务, 使用户和搬运设备协作进行拣货。通过分别规划搬运设备和用户的路径, 使得可以从待拣货物中寻找耗时最小的待拣货物进行拣货, 在不对传统仓库进行改造的前提下, 减少拣货时的移动耗时, 实现拣货效率的提升。