

Abstract

Method of order fulfilling by making storage units available from a storage facility in a desired sequence at a picking station

Method of fulfilling orders comprising: storage of items needed to fulfill orders from a queue of a plurality of orders in an automated storage facility and storage of items of the same kind in receptacles containing several same items; wherein the automated storage facility comprises a three dimensional racking for storage of receptacles with automatic storage and retrieval devices, preferably shuttles, servicing each aisle and possibly each level, when all of the items to complete an order are available or stored in the automated storage facility, retrieval and transport of the receptacles containing items for fulfillment of said certain order to one of a plurality of picking stations of the automated storage facility for specific item retrieval for fulfilling said certain order; packing retrieved items with other retrieved items of an order at said picking station for order fulfillment; wherein each aisle is directly connected to one of said plurality of picking stations and receptacles containing items for orders to be fulfilled at such connected picking station are stored within the connected aisle; wherein at the time of retrieval of the specific receptacle containing an item for the certain order it is checked according to predetermined criteria whether the same item is needed for fulfillment of further orders and if this is the case items from the receptacle are placed into separate receptacles for dedicated storage in different aisles according to picking station assignment for said further orders.

Fig. 1