

ABSTRACT

A warehousing-based conveying system and an intelligent three-dimensional warehousing system, which are applied to a three-dimensional warehouse. A plurality of columns of multi-tier warehousing racks (10) are provided in the three-dimensional warehouse, each warehousing rack (10) is provided with a plurality of tiers of reservation units (101), cargo containers (104) are placed in warehousing locations (103) of the reservation units (101), and a track conveying apparatus is mounted on the warehousing racks (10). The apparatus comprises a transverse track (11), a first stand column (12), a first movable member (13) and a connection mechanism (15) for a task module (14), wherein the transverse track (11) is arranged on the racks (10); the first stand column (12) is vertically arranged on the transverse track (11) and can transversely slide; the first movable member (13) is arranged on the first stand column (12) and can slide along the first stand column (12); the connection mechanism (15) for the task module (14) is arranged on the first movable member (13); and the task module (14) is driven by the first movable member (13) to perform storage and retrieval on a cargo container (104) and/or cargo (3), and put or take the cargo container and/or the cargo into or out of a docking component of a transport robot (105) operating at the bottom and/or the top of the warehousing rack (10).