

IDENTIFICATION AND PLANNING SYSTEM AND METHOD FOR FULFILLMENT OF ORDERS

ABSTRACT

A identification and planning system includes a scanner assembly, a robotic manipulator, and control server. The control server detects a first plurality of inventory items in a first inventory storage system and determines a first set of position parameters for a first inventory item from the detected first plurality of inventory items, with respect to a position of one or more image sensors in the scanner assembly. The control server generates a plurality of pick-path plans for the first inventory item, where each pick-path plan corresponds to a transformation of the determined first set of position parameters to a second set of position parameters with respect to the robotic manipulator. The control server further selects a first pick-path plan from the plurality of pick-path plans and controls the robotic manipulator to pick the first inventory item from the first inventory storage system, based on the first pick-path plan.

(FIG. 1)