

HANDLING ROBOT AND METHOD FOR RETRIEVING INVENTORY ITEM BASED ON HANDLING ROBOT

ABSTRACT

5 A method for retrieving an inventory item based on a handling robot, where the
handling robot includes: a storage frame; and a material handling device installed on
the storage frame, and including a telescopic arm and a manipulator installed to the
telescopic arm; and the method for retrieving an inventory item includes: driving, by
the telescopic arm, the manipulator to extend to a preset position of warehouse shelf
10 along a preset horizontal reference line; loading, by the manipulator that is remained on
the reference line, the inventory item located in the preset position; driving, by the
telescopic arm, the manipulator loaded with the inventory item to move to the storage
frame along the reference line; and unloading, by the manipulator that is remained on
the reference line, the inventory item to the storage frame.

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Figure 11