

ABSTRACT

**GOODS RETRIEVAL AND PLACEMENT DEVICE FOR HIGH-BAY RACK, AND
HIGH-BAY RACK**

The present disclosure relates to the technical field of warehousing and logistics. A goods
5 retrieval and placement device for high-bay rack and a high-bay rack are provided. The goods
retrieval and placement device includes a lifting assembly, a traveling assembly arranged on the
traveling rail in a movable manner and at least two floating assemblies arranged at intervals
along the height direction of the lifting assembly. The floating assembly includes a rigid support
and an elastic assembly. The lifting assembly is arranged on the rigid support, and the elastic
10 assembly is arranged between the rigid support and the traveling assembly. According to the
technical solution of the present disclosure, when multiple traveling assemblies at different
heights are not in the same vertical line, the adaptive change of the distance between the rigid
support and the traveling assembly in the vertical direction is realized by the elastic assembly,
thereby avoiding the tilt state of the lifting assembly as much as possible and jamming
15 phenomenon between the traveling assembly and the traveling rail. While ensuring that the
traveling assembly runs smoothly on the traveling rail, the load capacity of the goods retrieval
and placement device is increased.

(FIG 4)