ABSTRACT

TRAVELLING TRACK FOR OVERHEAD HOIST VEHICLE AND AUTOMATIC MATERIAL HANDLING SYSTEM

The present disclosure provides a travelling track for an overhead hoist vehicle and an automatic material handling system. The travelling track includes a plurality of straight sections, one or more fork sections and at least one guide track arranged over the one or more fork sections. Each straight section of the plurality of straight sections includes two straight tracks parallel to each other and configured for supporting the overhead hoist vehicle, and the plurality of straight sections and the at least one guide track are mounted overhead. Each respective fork section of the one or more fork sections includes at least one plate-shaped first bending member arranged on an inner side of a travelling direction of the overhead hoist vehicle through the each respective fork section. A first end of each respective first bending member of the at least one first bending member is connected to a first straight track of one respective straight section of the plurality of straight sections, and a second end of the each respective first bending member of the at least one first bending member is connected to a second straight track of another respective straight section of the plurality of straight sections. The at least one first bending member is configured to support the overhead hoist vehicle at the each respective fork section of the one or more fork sections. By arranging the at least one plate-shaped first bending member at each respective fork section of the travelling track, and supporting the overhead hoist vehicle by the at least one first bending member during travelling on the one or more fork sections, the wear of the overhead hoist vehicle can be reduced, and the steadiness of the overhead hoist vehicle during travelling through bends can be ensured.

Figure 1