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(81) 指定国(除另有指明, 要求每一种可提供的国家保护): AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BN, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CV, CZ, DE, DJ, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IQ, IR, IS, IT, JM, JO, JP, KE, KG, KH, KN, KP, KR, KW, KZ, LA, LC, LK, LR, LS, LU, LY, MA, MD, MG, MK, MN, MU, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PA, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, SA, SC, SD, SE, SG, SK, SL, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, WS, ZA, ZM, ZW。

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(54) **Title:** GOODS HANDLING DEVICE FOR HIGH-LEVEL RACK AND HIGH-LEVEL RACK

(54) 发明名称: 一种高位货架的货物取放装置及高位货架

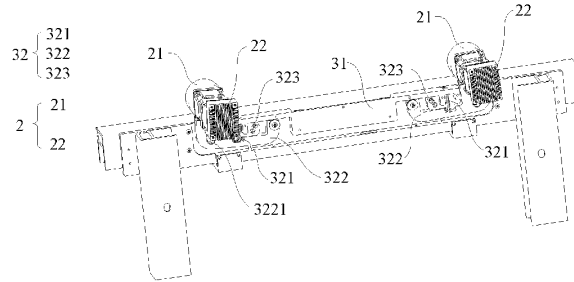


图 4

(57) **Abstract:** The present application relates to the technical field of warehouse logistics; and provides a goods handling device for a high-position rack, and a high-position rack. The goods handling device comprises a lifting assembly, traveling assemblies, and at least two floating assemblies, wherein the traveling assemblies are movably arranged on traveling rails, and the at least two floating assemblies are spaced apart from each other in the direction of height of the lifting assembly; and each of the floating assemblies comprises a rigid support and elastic assemblies, the lifting assembly is arranged on the rigid supports, and the elastic assemblies are arranged between the rigid support and the traveling assemblies. In the technical solution of the present application, when a plurality of traveling assemblies at different heights are not located in the same vertical line, the vertical distance between the rigid support and the traveling assemblies is adaptively changed by means of the elastic assemblies, thereby preventing the lifting assembly from tilting as much as possible, avoiding jamming between the traveling assemblies and the traveling rails, and thus increasing the load-carrying capacity of the goods handling device while ensuring smooth running of the traveling assemblies on the traveling rails.

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本国际公布：
— 包括国际检索报告(条约第21条(3))。

(57) 摘要: 本申请涉及仓储物流技术领域，提供一种高位货架的货物取放装置及高位货架，货物取放装置包括升降组件、行走组件和至少两个浮动组件，行走组件可行走的设置在行走轨道上，至少两个浮动组件沿升降组件的高度方向间隔设置；浮动组件包括刚性支架和弹性组件，升降组件设置在刚性支架上，弹性组件设置在刚性支架和行走组件之间。本申请技术方案，在不同高度的多个行走组件未处于同一竖直线时，通过弹性组件实现刚性支架与行走组件之间在竖直方向上的距离的适应性变化，从而尽可能的避免升降组件出现倾斜状态，避免行走组件与行走轨道出现卡阻现象，进而保证行走组件在行走轨道上顺畅运行的情况下，增大货物取放装置的货物承载重量。