

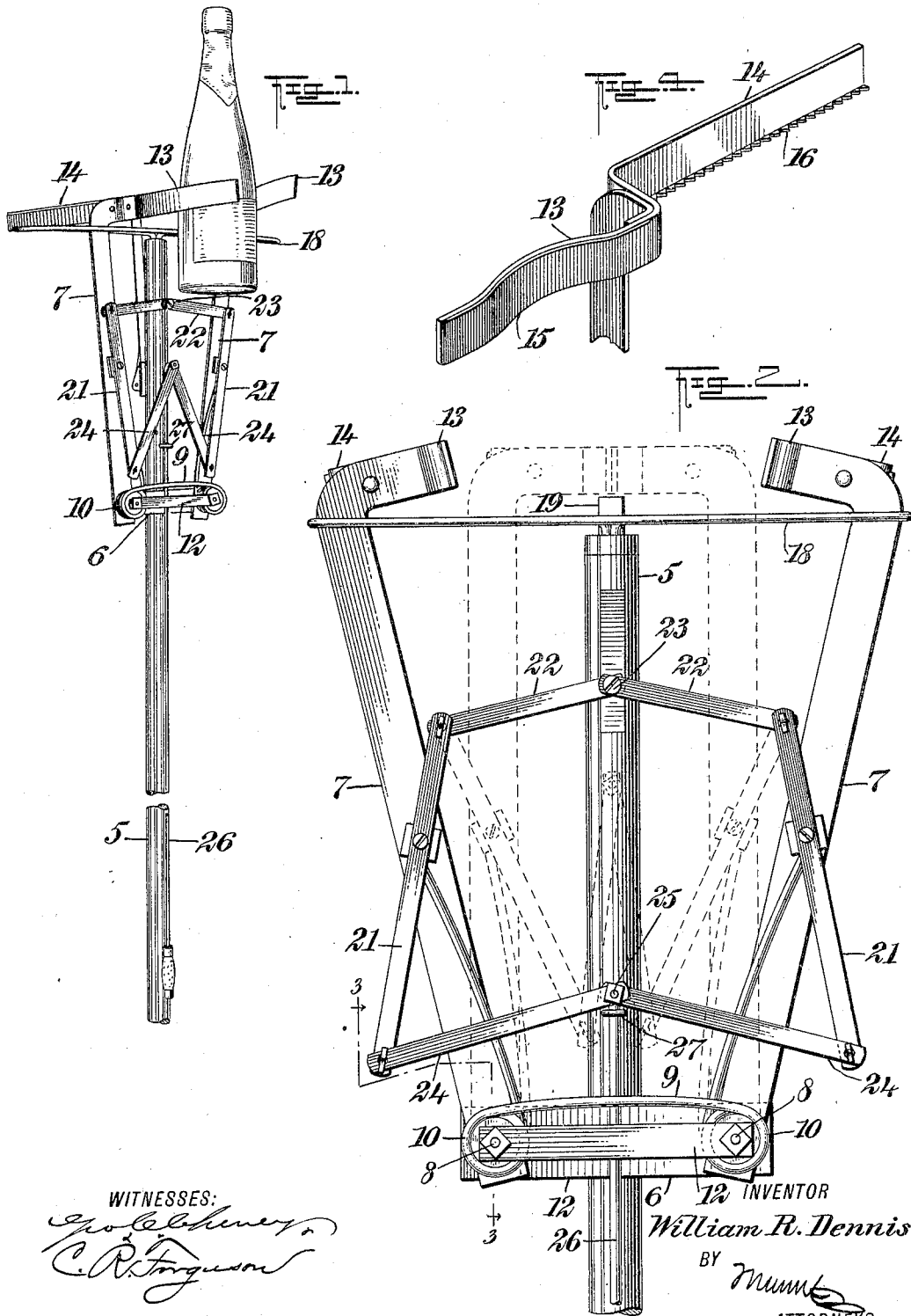
No. 793,512.

PATENTED JUNE 27, 1905.

W. R. DENNIS.  
PACKAGE HANDLING DEVICE.

APPLICATION FILED JUNE 15, 1904.

2 SHEETS—SHEET 1.



WITNESSES:  
*G. P. Schuyler*  
*C. P. Ferguson*

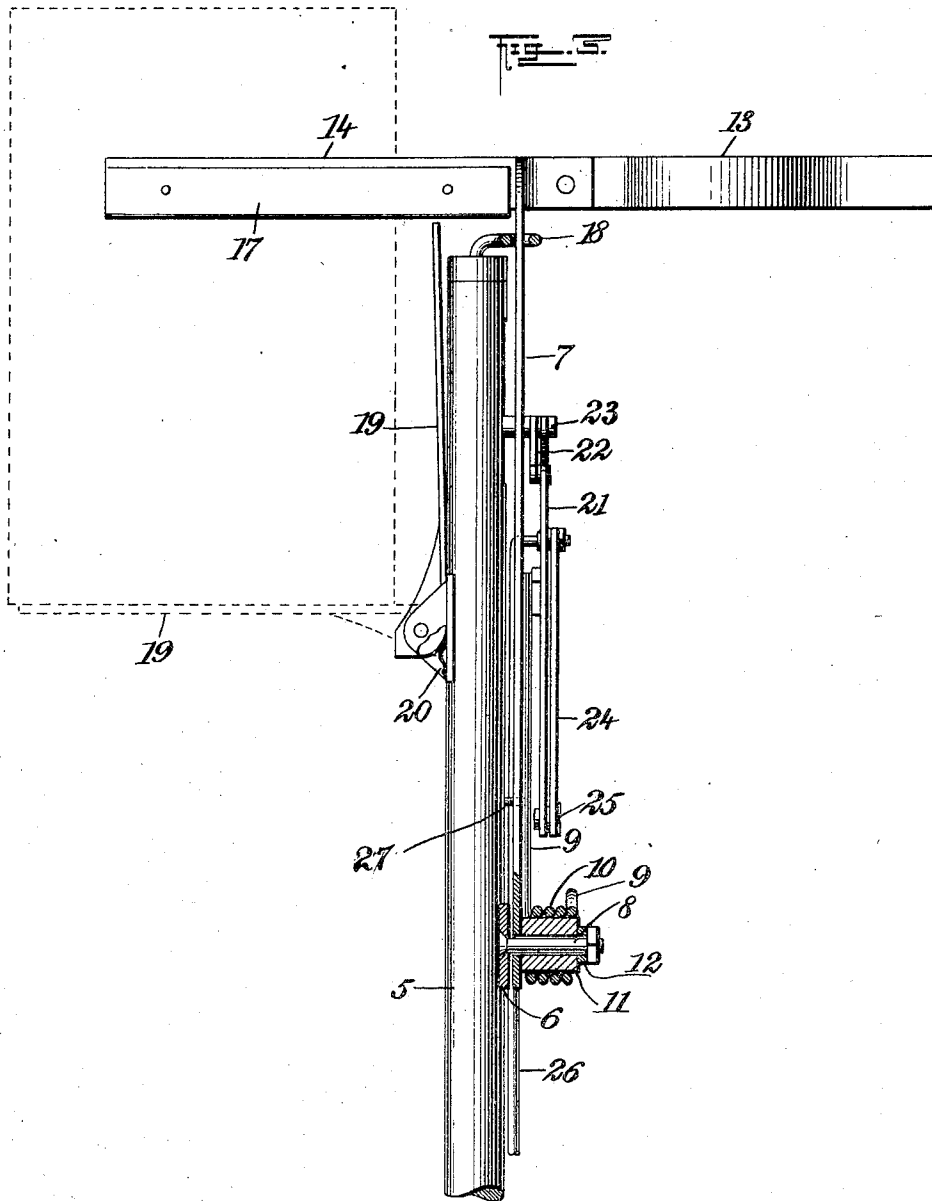
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# UNITED STATES PATENT OFFICE.

WILLIAM R. DENNIS, OF DENVER, COLORADO.

## PACKAGE-HANDLING DEVICE.

SPECIFICATION forming part of Letters Patent No. 793,512, dated June 27, 1905.

Application filed June 15, 1904. Serial No. 212,643.

*To all whom it may concern:*

Be it known that I, WILLIAM R. DENNIS, a citizen of the United States, and a resident of Denver, in the county of Denver and State of Colorado, have invented a new and Improved Package-Handling Device, of which the following is a full, clear, and exact description.

This invention relates to improvements in devices for handling shelf goods of all descriptions usually sold in stores, the object being to provide a novel and simple device by means of which packages may be readily removed from the shelves or the like or placed thereon without danger of breaking or otherwise damaging the packages.

I will describe a package-handling device embodying my invention and then point out the novel features in the appended claims.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar characters of reference indicate corresponding parts in all the figures.

Figure 1 is a perspective view of a package-handling device embodying my invention. Fig. 2 is a front view thereof, drawn on a larger scale than Fig. 1. Fig. 3 is a section on the line 3-3 of Fig. 2, and Fig. 4 is a detail perspective view illustrating the construction of the jaws.

Referring to the drawings, 5 designates a staff or handle of any suitable length, and attached to the handle at a short distance below its upper end is a cross-plate 6, to which upwardly-extended arms 7 are pivoted. These arms 7 swing on bolts 8, extended from the plate 6, and the upper ends of the arms are moved toward each other, carrying the jaws, to be hereinafter described, by means of a spring-rod 9, having portions 10 coiled around blocks 11 on the bolts 8, and the ends of this spring-rod extend upward and have sliding connection with the arms 7. A stay-plate 12 connects with the bolts 8 at the outer sides of the stay-blocks 11. On the upper ends of the arms 7 are forwardly-extended jaws 13 and rearwardly-extended jaws 14. The jaws 13 are longitudinally curved to form depressions for receiving bottles or the like, and to prevent a possible slipping of the package between the jaws the said jaws are provided with

a lining 15, of rubber or the like. The jaws 14 are designed for engaging with larger packages, and the said jaws 14 may be provided with inwardly-extended teeth 16. As shown in Fig. 3, these teeth are formed on plates 17, 55 removably attached to the jaws 14.

The arms 7 are guided in their outward and inward movements by means of a loop 18, attached to the upper end of the staff 5 and extended laterally in opposite directions. On the rear side of the staff or below the jaws a bracket-arm 19 has swinging connection with the staff. With very heavy packages this bracket 19 may be lowered, as indicated in dotted lines in Fig. 3, so as to engage against the under side of the package. When not desired for use, however, the bracket-arm is to be swung upward and held yieldingly in place by means of a spring 20.

Pivotally connected to the arms 7 are levers 21, the upper ends of which have link connections 22 with a pivot pin or screw 23 on the staff, and pivotally connected to the lower ends of these levers 21 are lower links 24, pivotally connected together, as at 25, and this pivot 25 is connected to an operating-rod 26, which extends downward along the staff 5 and is guided in eyes 27, attached to the staff.

In the operation when the rod 26 is drawn downward the link-and-lever mechanism will cause the spreading apart of the jaws, and during the movements of the jaws they will be at all times practically in parallelism, the movements of course being transverse to the length of the staff. Upon receiving a package between the pair of jaws the rod 26 may be released, and then the spring 9 will cause the jaws to clamp sufficiently tight against the package to securely hold it, so it may be removed from a shelf or placed thereon.

Having thus described my invention, I claim as new and desire to secure by Letters Patent—

1. A package-handling device comprising a staff, arms mounted to swing on the staff, jaws extended forward from said arms, jaws extending rearward from the arms a spring for moving the arms toward each other, and means for moving the jaws from each other.

2. A package-handling device comprising a staff, a pair of arms mounted to swing there-

on, jaws carried by the arms, levers pivoted to the arms, link connections between the upper ends of the levers and the staff, an operating-rod movable along the staff, and link connections between the lower ends of said levers and said rod.

3. A package-handling device comprising a staff, a cross-plate thereon, upwardly-extended arms pivoted to said plate, jaws carried by the arms, levers mounted to swing on the arms, link connections between the upper ends of the levers and the staff, a rod movable along the staff, link connections between the said rod and the lower ends of the levers, and a spring for moving the arms toward each other.

4. A package-handling device comprising a staff, arms mounted to swing thereon, forwardly-extended jaws on the upper ends of the arms, rearwardly-extended jaws on the upper ends of the arms, and means for moving the arms and jaws toward each other.

5. A package-handling device comprising a staff, arms having swinging connection therewith, forwardly and rearwardly extended jaws on the arms, a guide for said arms, the said guide being connected to the staff, and means for moving the arms and jaws laterally with relation to the staff.

6. A package-handling device comprising a staff, arms having swinging connection with

the staff, jaws extended outward from said arms and having teeth, jaws extended from the arms in an opposite direction from the first-named arms, levers mounted to swing on the arms, link connections between the upper ends of said levers and the staff, a rod movable along the staff, link connections between the lower ends of said levers and said rod, and a spring for moving the arms toward each other.

7. A package-handling device comprising a staff, a cross-plate attached thereto, arms having pivotal connection with said plate and extended upward, jaws carried by the arms, a spring-rod, blocks on the pivots of the arms around which coiled portions of the spring-rod engage, the ends of said spring-rod being connected with the arms, a guide-loop for the arms, levers pivoted to the arms, link connections between the upper ends of the levers and the staff a rod movable along the staff, and link connections between said rod and the lower ends of the levers.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

WILLIAM R. DENNIS.

Witnesses:

FRANCIS M. HENDRICKS,  
Mrs. R. A. HENDRICKS.