No. 693,200. Patented Feb. 11, 1902.

F. P. WILKIN.

STORE GOODS LIFTER.

(Application filed July 6, 1901.)

(No Model.)

Fig. 2.

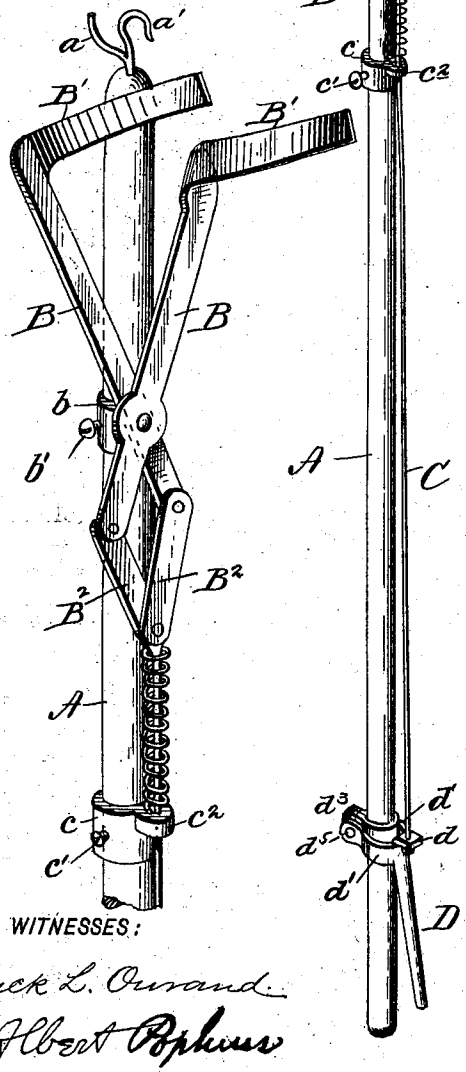


Fig. 1

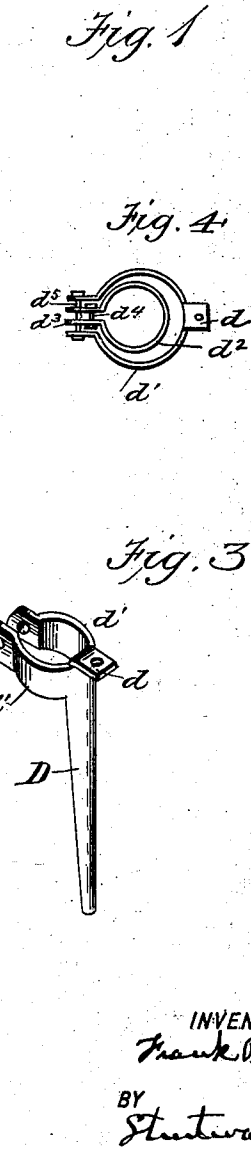


Fig. 4.

Fig. 3.

WITNESSES:

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FRANK P. WILKIN, OF SALT LAKE CITY, UTAH.

STORE-GOODS LIFTER.

SPECIFICATION forming part of Letters Patent No. 693,200, dated February 11, 1902.

Application filed July 6, 1901. Serial No. 67,272. (No model.)

To all whom it may concern:

Be it known that I, FRANK P. WILKIN, a citizen of the United States, residing at Salt Lake City, in the county of Salt Lake, State of Utah, have invented certain new and useful Improvements in Store-Goods Lifters, of which the following is a description, reference being had to the accompanying drawings and to the letters of reference marked thereon.

My invention relates to that class of lifters for use in stores to handle shelf or suspended goods.

The object of the invention is to provide a simple and efficient store-goods lifter by means of which goods may be lifted from any elevated support and lowered, to provide the upper end of the lifter-pole with curved jaws operative from a hand-lever on the lower end of the pole and capable of grasping curved or cylindrical objects—such as jars, vases, cans, or the like—and to provide means for properly adjusting the various elements of the lifter into proper relation on the pole. These objects I accomplish by the mechanism illustrated in the accompanying drawings, in which—

Figure 1 is an elevation of my improved store-goods lifter with the grasping-jaws shown in perspective in their closed position. Fig. 2 is an enlarged perspective of the upper portion of the lifter. Fig. 3 is a perspective of the hand-lever, and Fig. 4 is a plan of the hand-lever and the collar to which it is pivoted.

A designates the pole, having the usual reversely-curved hook $a\,a'$ on its upper end.

B B designate two crossed arms pivoted at their point of crossing to the collar b, secured in proper position on the pole by means of the set-screw b', the upper ends of these arms being provided with outwardly-projecting curved jaws B′ B′, capable of grasping a cylindrical or like object between them. To the lower ends of these arms or levers B B are pivoted the upper ends of two links B^2 B^2, the lower overlapping ends of which are pivoted to the upper end of an operating-rod C. The rod C passes near its upper end through an apertured ear c^2, projecting outwardly from a collar c, secured on the pole by a set-screw c', and the lower end of the rod is secured to an apertured ear d, projecting outwardly from the upper end of the operating-lever D. This lever D is provided with arms d' d', which straddle the pole and are pivoted at their free apertured ends to the ears d^3, projecting from the collar d^2. The collar d^2 is clamped on the pole by means of the bolt d^4, while the lever D is pivoted to the said ears d^3 by the outer bolt or pin d^5.

E is the spring surrounding the rod C between the ear c^2 and the lower ends of the links B^2 B^2 and by expansion forces jaws B′ open or apart, as shown in Fig. 2.

When it is desired to grasp an object, the open jaws are passed around it, and then the operator forces lever D toward the pole by tightening his grasp, and the lug or ear d will then pull down on the rod, and the rod in turn will pull down on the links, which with the levers B B constitute a toggle-lever, and so the jaws will be brought into the position shown in Fig. 1.

It will be seen that the various parts may be properly positioned on the pole by means of the three adjustable collars b c d^2.

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

1. A store-goods lifter, comprising a pole having upper, lower, and intermediate collars, the latter having an apertured lug or ear, crossed levers pivoted at their point of crossing to the upper collar, and provided at their upper ends with grasping-jaws, an operating-rod passed through said apertured ear, links connecting the upper end of the rod with the lower ends of said crossed levers, a spring on the rod between said apertured ear and links to force the rod upwardly and hold the jaws open, and a hand-lever pivoted to the lower collar and connected to the lower end of the rod; substantially as described.

2. A store-goods lifter, comprising a pole, levers mounted on the upper portion of the pole, and provided with grasping-jaws, an op-

erating-rod operatively connected at its upper end to said jaws, a collar mounted on the lower end of the pole, and provided with a lug or ear on its side opposite to the said grasping-jaws, a hand-lever provided with arms straddling the pole and pivoted to the said lug or ear, the said lever being provided on its upper end with a lug or ear connected to the lower end of the rod; substantially as described.

In testimony whereof I affix my signature in presence of two witnesses.

F. P. WILKIN.

Witnesses:
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