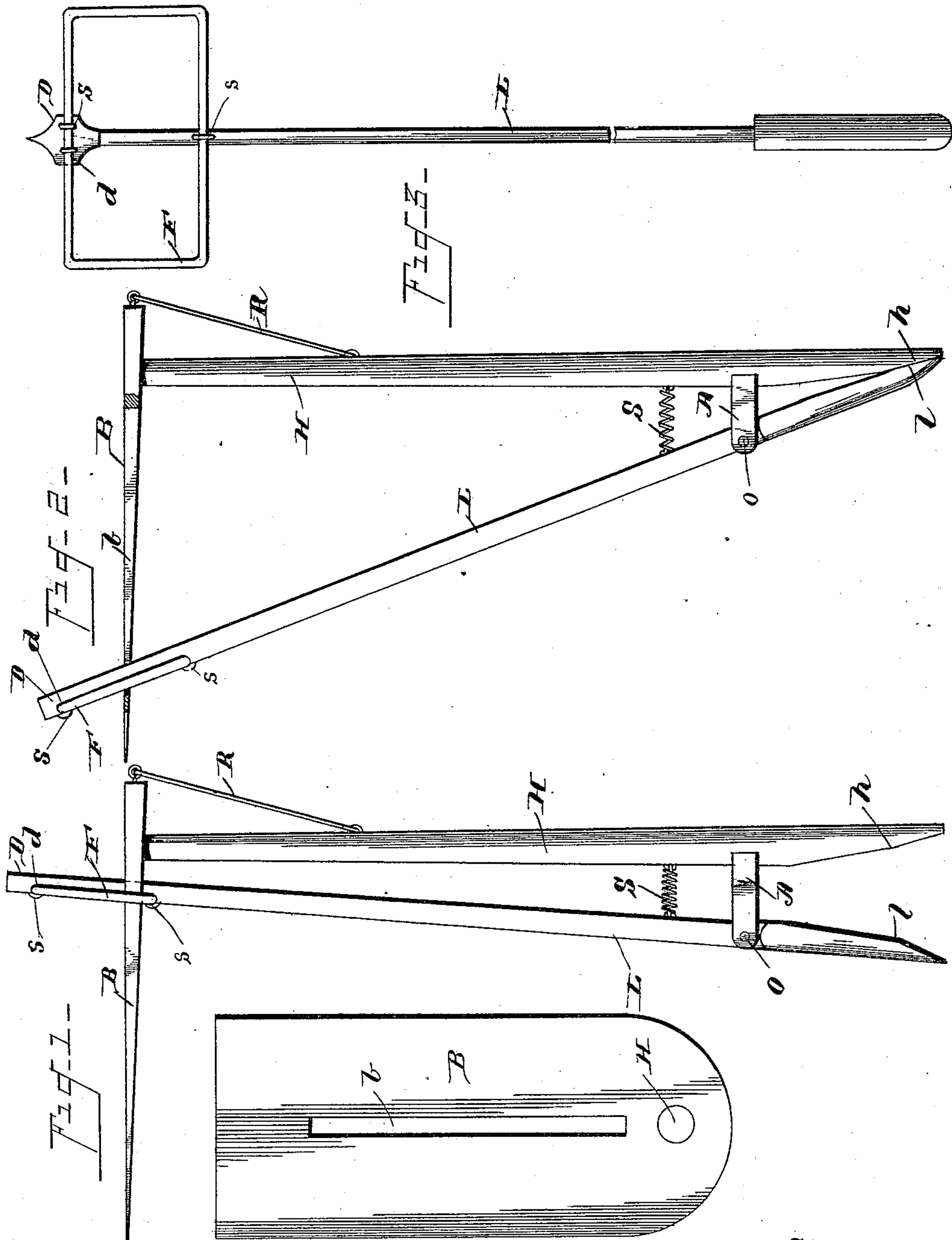


(No Model.)

J. C. LOURY, Jr. & J. H. DOYLE.
PARCEL HANDLER.

No. 426,830.

Patented Apr. 29, 1890.



Witnesses

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UNITED STATES PATENT OFFICE.

JOSIAH C. LOURY, JR., AND JAMES H. DOYLE, OF HUNTERSVILLE, WEST VIRGINIA.

PARCEL-HANDLER.

SPECIFICATION forming part of Letters Patent No. 426,830, dated April 29, 1890.

Application filed January 6, 1890. Serial No. 335,959. (No model.)

To all whom it may concern:

Be it known that we, JOSIAH C. LOURY, Jr., and JAMES H. DOYLE, citizens of the United States, residing at Huntersville, in the county of Pocahontas and State of West Virginia, have invented a new and useful Parcel-Handler, of which the following is a specification.

This invention relates to store-service apparatus for handling light merchandise, more particularly of that class which is adapted to operate upon parcels of light weight and of moderate size which may have been placed or are to be placed upon an upper or high shelf.

The invention consists of an upright handle, a supporting-plate secured to the upper end thereof and having a thin front edge, and an expelling device moving outwardly along said plate and operated by a lever which is carried down by and pivoted to the handle at its lower end, all as will be hereinafter more fully described.

In the accompanying drawings, Figure 1 is a side elevation of our improved parcel-handler in its normal position. Fig. 2 is a similar view showing it as it is used in the operation of placing the parcel upon a high shelf. Fig. 3 is a detached front elevation of the lever and frame. Fig. 4 is a plan view of the blade.

Referring by letter to the said drawings, H represents a handle, and B a blade secured to the upper end thereof and projecting forwardly therefrom, the front end of said blade being approximately a straight edge which is very thin. The rear end of said blade projects slightly by its point of connection with the upper end of the handle, (which may be by means of a dovetail or any other suitable device,) and at its rear end the blade is preferably connected with the handle by an inclined brace-rod R, as shown in the drawings, whereby a downward pressure upon the projecting part of the blade will cause an upward movement of the rear end of the blade, and this latter movement will be resisted by the brace.

At a point suitably near the lower end of the handle an arm A projects forwardly therefrom and is bifurcated or vertically slotted at its front end, and pivoted in this slot on a bolt O is a lever L, which follows the handle

H and passes through a longitudinal slot *b* in the blade B. This lever is held normally in the position shown in Fig. 1 by a spring S, located, preferably, where shown, and which exerts a gentle force to draw the upper arm of the lever inwardly. The lower end of the handle is cut away, as at *h*, and the lower end of the lever, as at *l*, whereby when these two respective lower ends are brought together the handle will be thrown in its extreme outward position to a point just short of the outer end of the slot *b*, whereby the shock of operating the lever and the force applied thereto will not cause a destruction of the parts of the device.

The upper end of the lever L is provided with a head D, having a horizontal slot *d* across its face, as shown in Fig. 1, and a frame F, composed of stiff wire bent, preferably, into a rectangular form, as shown in Fig. 3, is secured to the lever by being seated in said slot *b* and in a similar slot in the front edge of the handle by staples *s*, or by any other suitable means. The lower member of the frame is so placed that when the lever is in its normal position, as shown in Fig. 1, this member will stand just below the lower face of the plate at the inner end of the slot *b*, and when the lever moves outwardly around the pivot O of course this lower member will be carried downwardly from the plate and the upper member of the frame, which is secured in the head D, is sufficiently high above the plate so that it will not be brought into contact therewith at any time, while the two side arms or members of this frame pass loosely by the edge of the plate and connect the upper and lower members, whereby the frame F incloses the blade B. The head D is preferably of considerable size, as shown in the drawings.

In operation, when it is desired to remove a parcel—such as a small box or package—from a high or an upper shelf, this device is taken from a hook upon which it may be hung, raised by its handle, and its sharp edge slid over the shelf and under the parcel, the tendency of the latter to slide back upon the shelf being resisted by its coming in contact with the wall or the rear edge of the shelf. The device is then raised a trifle and, if need

be, tipped backwardly, so that the parcel will slide down against the frame, and then the device and with it the parcel are lowered to within convenient reach of the operator.

5 The reversal of this operation is effected by placing the parcel to be put on a high shelf upon the plate and in contact with the frame, then elevating the whole device and resting the lower front edge of the plate upon the
10 shelf at the desired point, and then imparting a pressure to the lever L below its pivotal point. This pressure will throw the frame F and head D quickly forward and force the
15 parcel to slide along the plate and move off of its front end onto the shelf. In both operations, and while the device with the parcel is being raised and lowered, it is inclined from its point of support backwardly from the shelves, so that the weight of the parcel will
20 be almost exactly in a vertical line over such point when it rests against the front face of the frame.

Our improved parcel-handler is preferably constructed of some light and strong material—such, for instance, as hard wood—and
25 is preferably manufactured in three sizes and with varying length of handle.

A considerable departure in the details of construction can be made from the description above without affecting the principles
30 of this invention, and, without limiting ourselves, therefore, to the precise arrangement and shape of the several parts, what we claim is—

35 1. In a parcel-handler, the combination, with the upright handle and the sharp-edged blade rigidly secured at right angles thereto, of a frame inclosing said blade, and means, substantially as described, for moving said
40 frame outwardly along said blade, as and for the purpose set forth.

2. In a parcel-handler, the combination,

with the upright handle and the sharp-edged blade secured to the upper end thereof and projecting forwardly therefrom, said blade
45 having a longitudinal slot, of the lever pivoted near its lower end to a projection from the handle, passing near its upper end through said slot, and provided with a head, the lower inner faces of said handle and lever being
50 beveled, so that the upper end of the handle will not strike the outer end of the slot, and a spring for holding the lever normally in retracted position, as and for the purpose set forth.

3. In a parcel-handler, the combination, with the upright handle and the blade secured to the upper end thereof and projecting forwardly therefrom, said blade having a longitudinal slot, of the lever pivoted to the handle, a spring for holding said lever normally in retracted position, and a frame secured to the upper end of said lever and inclosing said blade, as and for the purpose set forth.

4. In a parcel-handler, the combination, with the upright handle and the sharp-edged blade secured to the upper end thereof and projecting forwardly therefrom, said blade having a longitudinal slot, of the lever pivoted near its lower end to a projecting arm of
70 the handle, a spring for holding said lever normally in a retracted position, and a frame secured to the upper end of said lever and inclosing the body of said blade, as and for the purpose set forth.

In testimony that we claim the foregoing as our own we have hereto affixed our signatures in presence of two witnesses.

JOSIAH C. LOURY, JR.
JAMES H. DOYLE.

Witnesses:

WILLIAM CURRY,
AMOS BURLOW.