

No. 658,458.

Patented Sept. 25, 1900.

G. NEVENZEL.
BOX LIFTER.

(Application filed Feb. 12, 1900.)

(No Model.)

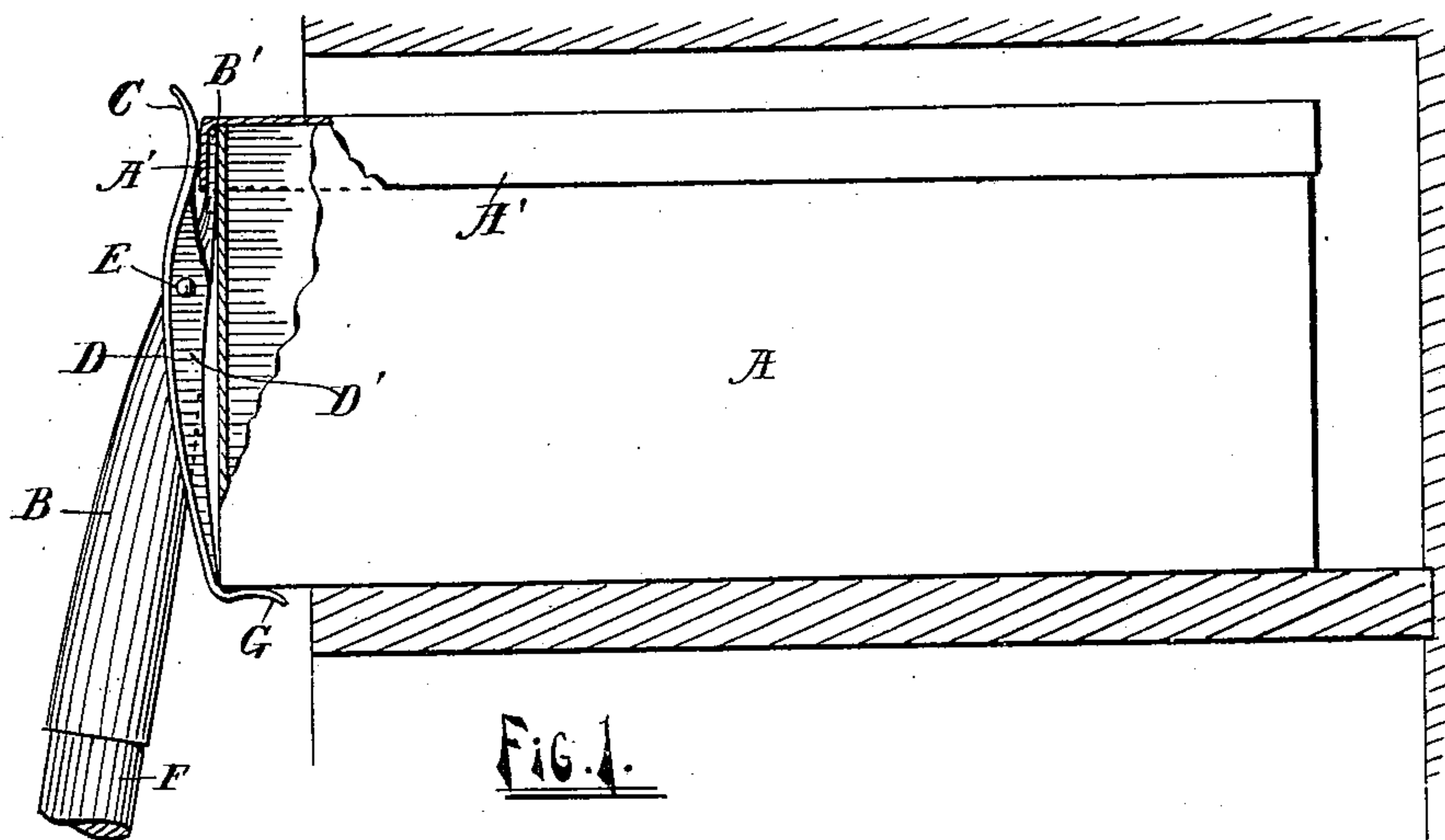


FIG. 1.

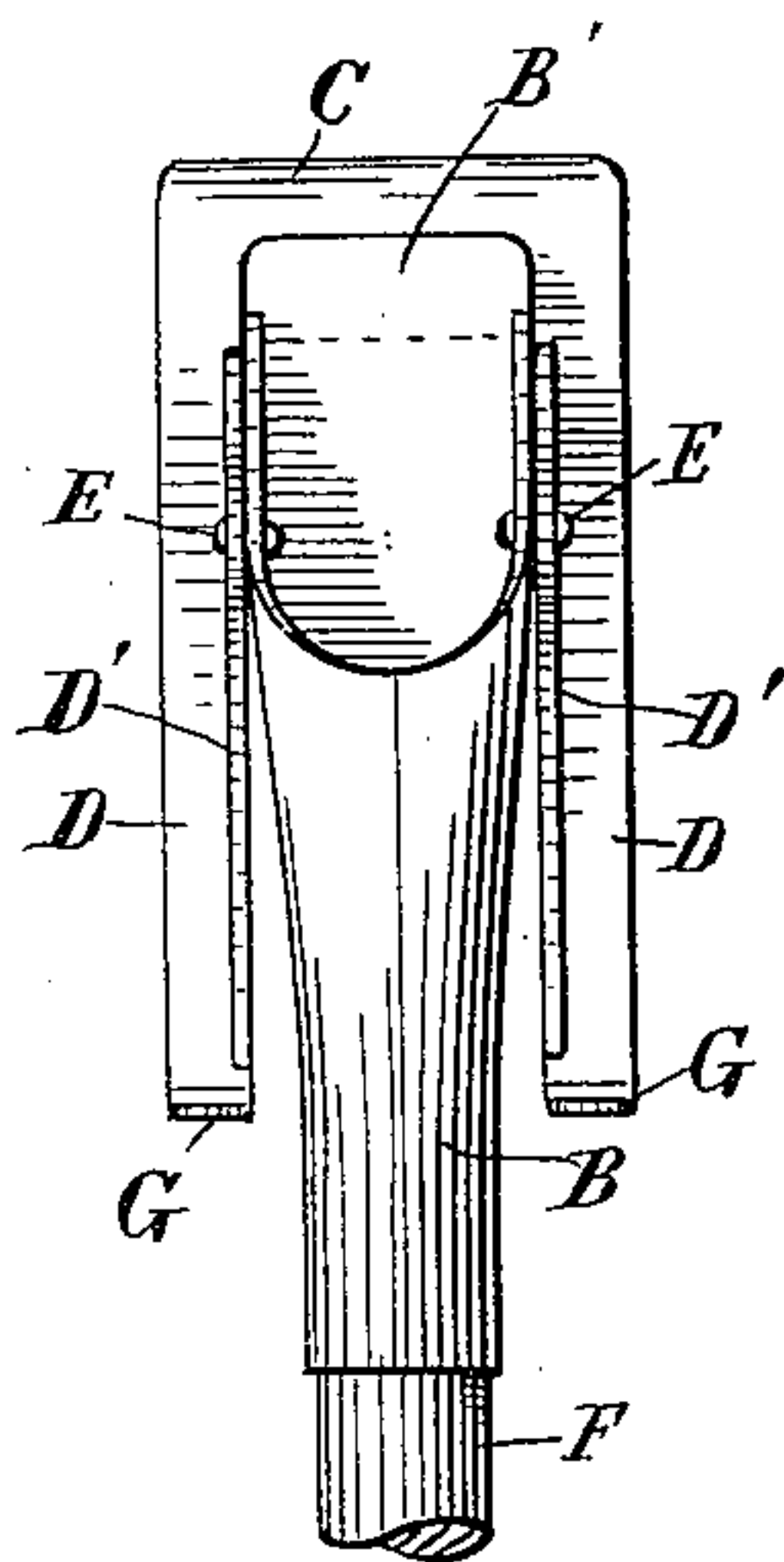


FIG. 2.

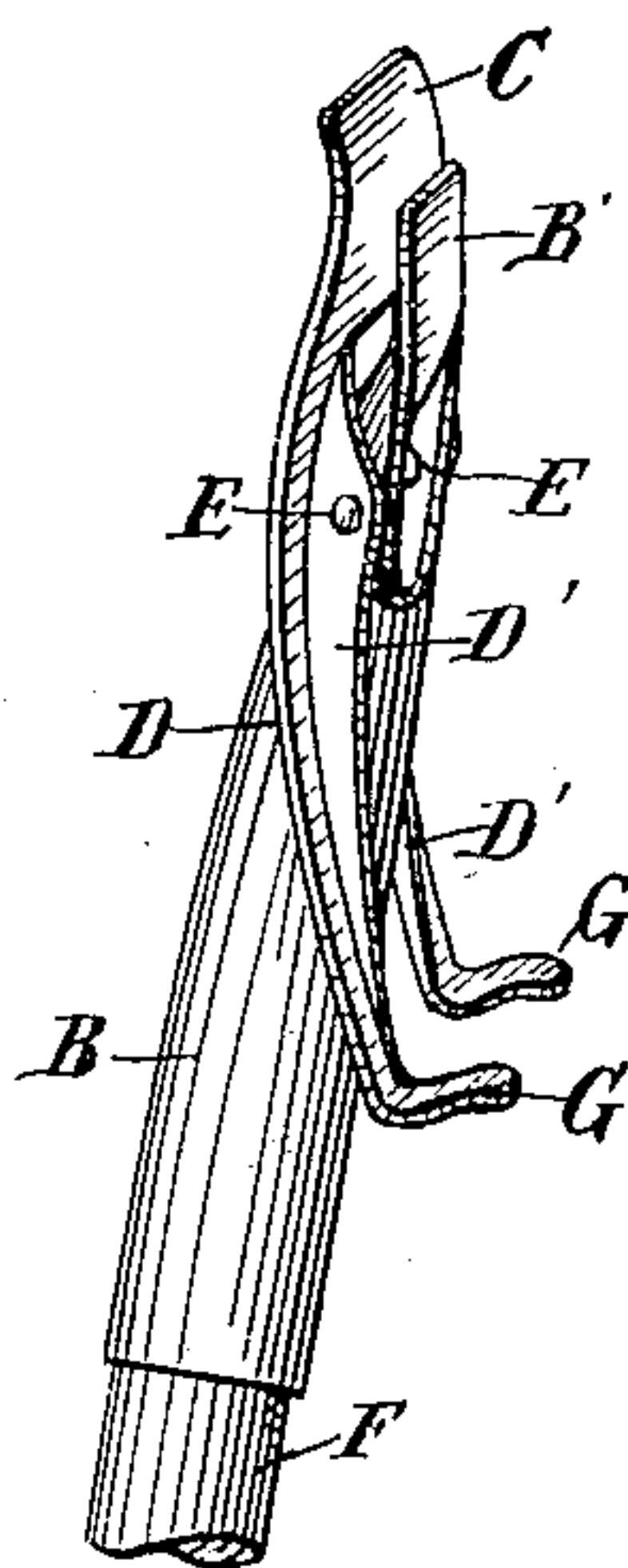


FIG. 3.

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UNITED STATES PATENT OFFICE.

GERRIT NEVENZEL, OF GRAND RAPIDS, MICHIGAN.

BOX-LIFTER.

SPECIFICATION forming part of Letters Patent No. 658,458, dated September 25, 1900.

Application filed February 12, 1900. Serial No. 4,885. (No model.)

To all whom it may concern:

Be it known that I, GERRIT NEVENZEL, a citizen of the United States, residing at Grand Rapids, in the county of Kent and State of Michigan, have invented certain new and useful Improvements in Box-Lifters; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to improvements in box-lifters, and more especially to devices for removing shoe-boxes from the shelves and replacing the same; and its object is to provide the same with means whereby the box will be securely gripped and held by the device and to provide the said device with certain new and useful features hereinafter more fully described.

My invention consists, essentially, of a suitable handle terminating in a flattened end adapted to pass between the flange of the cover of the box and the end of the box and a pivoted jaw attached to the handle and adapted to engage the outer side of the flange of the cover and extending downward and forward to engage the lower front angle of the box and support the same, as hereinafter more fully described, and particularly pointed out in the claims, reference being had to the accompanying drawings, in which—

Figure 1 is a side elevation of my device applied to a box; Fig. 2, a rear elevation of my device, and Fig. 3 a perspective of the same.

Like letters refer to like parts in all of the figures.

A represents an ordinary shoe-box having portions broken away, and A' represents the downward-projecting flange of the cover of the box, which is engaged at its respective sides by the respective jaws B' and C of my device.

B represents a suitable socket formed of sheet metal and attached to a handle F of any convenient length, the said socket being flattened at its upper end and terminating in a flat plate B', adapted to pass between the flange A' of the cover of the box and the end of the box proper.

C is a transverse outwardly-curved plate forming an opposing gripping-jaw adapted to pass outside the flange A' opposite the jaw B' and to engage the outer side of the said flange. Extending downward from the jaw

C and at each side of the socket B are forwardly-curved arms D, having stiffening-flanges D', through which flanges pass rivets E, which pivotally connect the arms to the respective sides of the socket B near its upper end. At the lower ends of the arms D are forwardly-projecting hooks G to engage the lower side of the box A, the lower ends of the arms D being projected sufficiently forward of the socket B so that the box will rest in the angle formed by the forwardly-turned hooks G and by its weight will press the arms D rearward and firmly close the jaw C against the outer side of the flange of the cover, thus firmly holding the cover between the plates B' and C.

From the foregoing description the operation of my device is obvious and needs no further description.

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

1. The combination of a suitable handle terminating at its upper end in a flat plate, an opposing plate pivotally connected to the handle and having a downwardly-projecting arm terminating in a forwardly-projecting hook, substantially as described.

2. The combination of a socket terminating in a flat plate at its upper end, a transverse plate opposite the flat end of the socket, downwardly-extended arms on the plate and embracing the socket and pivoted to the sides of the same, and forwardly-extended hooks at the lower ends of the arms, substantially as described.

3. The combination of a socket having a tubular lower end adapted to receive a handle, and a flattened upper end adapted to pass between the flange of the box-cover and the end of the box, a transverse plate adapted to engage the outer side of the said flange, arms extending downward and in a curve forward at each side of the socket, flanges on the arms pivoted to the socket, and forwardly-extended hooks at the lower end of the arms to engage the bottom of the box, substantially as described.

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

GERRIT NEVENZEL.

Witnesses:

LUTHER V. MOULTON,
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