FIG. 6.

FIG. 7.

FIG. 8.

FIG. 9.


Witnesses

G.A. Joy, by Cathrown & Co.

Attorneys
To all whom it may concern:

Be it known that I, GEORGE A. JOY, a citizen of the United States, residing at Bar Harbor, in the county of Hancock and State of Maine, have invented a new and useful Blacking-Box Holder, of which the following is a specification.

My invention relates to improvements in holders for blacking-boxes; and the object that I have in view is to provide an improved holder in which the box may be closed in practically an air-tight manner and the box-closing means adapted when opened to serve as a shield for the purpose of preventing the blacking from spattering over the hand of the user.

A further object of the invention is to provide an improved construction of the box-holder, which may be adjusted to accommodate itself to blacking-boxes of different sizes, and the extensible holder has its parts coupled to remain firmly in their proper operative relation to each other.

A further object of the invention is to simplify the construction with a view to promoting the convenience of the device and to cheapen the cost of manufacture.

With these ends in view my invention consists of a box-holder provided with a spring-actuated lid adapted to close firmly upon the open end of the box and to close the same in practically an air-tight manner.

The invention further consists of a box-holder comprising a handle, a spring-controlled cover, and an extensible box-clamp carried by the handle and adjustable thereon toward or from the pivotal of the cover.

The invention further consists in the construction and arrangement of parts, which will be hereinafter fully described and claimed.

To enable others to understand the invention, I have illustrated the preferred embodiment thereof in the accompanying drawings, forming a part of this specification, and in which—

Figure 1 is a perspective view of the improved box-holder with the cover in its raised position. Fig. 2 is a vertical sectional elevation with the cover closed and showing the blacking-box by dotted lines. Fig. 3 is a detail perspective view of the two parts detached from each other, forming the extensible box-clamp. Fig. 4 is a detail cross-sectional view through the two parts of the box-clamp to show the slideable connection between said extensible parts. Fig. 5 is an elevation of a modified construction of the holder in which the box is attached to the handle and the spring-actuated lid is hung on the handle to close the open upper end of the box. Fig. 6 is a perspective view of a further modified form of the device, showing the box-cover raised. Fig. 7 is a longitudinal vertical section of the modified device as shown by Fig. 6. Fig. 8 is a horizontal sectional view of a portion of the box as shown by Fig. 6. Fig. 9 is a detail perspective view of a portion of the handle as included in Figs. 6 and 7.

Like numerals of reference denote like and corresponding parts in each of the several figures of the drawings.

The handle 1 of my improved holder for blacking-boxes is constructed with a depending end piece 2 at one extremity of said handle. The handle and its end piece may be made of sheet metal, which is struck up in blank form and bent to the contour illustrated by the drawings; but, if desired, this handle and its end piece may be of cast metal, or it may be made of wood or any other preferred material. In the depending end piece 2 of the handle is provided a vertical slot 3, through which is adapted to pass the adjusting and clamping bolt by which the extensible box-clamp may be adjusted and attached firmly to the end piece of the handle. This end piece is shown in the drawings as provided with a guide-plate 4, which is applied to the external exposed face of the end piece, and said guide-plate is slotted, as at 4a, coincidently with the slot 3 in the end piece.

5 designates the carrier-plate, forming one member of the extensible box-clamp. This carrier-plate is made in a single piece of metal in the substantially T form shown more clearly by Fig. 3 of the drawings, and the head of this T-shaped carrier-plate is provided at its side edges with the bent or doubled flanges 6, which are fitted to the edges of the guide-plate 4 to slidably embrace the same, whereby the carrier-plate is attached to the guide-plate of the handle to be
adjusted thereon toward or from the pintle of the hinged cover, as will presently appear. In the horizontal part of this carrier-plate is formed a longitudinal guide-slot 7, the edges of which are recessed or rabbed to form the guideways 8, and in this slot of the carrier-plate is fitted an extensible clamping-plate 9. The clamping-plate is made of a single piece in metal with a shank 10, the edges of which are rabbed to correspond to the guideways 8 of the carrier-plate, and the rabbed edges of the carrier-plate and the shank of the extensible clamping-plate are snugly fitted together to insure correct position of the carrier and clamping plates to each other and enable the plates to be extended or contracted for the purpose of adjusting the clamp formed by the two plates to blacking-boxes of different diameters. The clamping-plate 9 of the two-part box-clamp is provided with a central holding-spool 11, which is preferably formed integral with the plate 9 and is bent upwardly, so as to overhang the plate and bear against the outside of a blacking-box, which may be fitted on the two-part clamp to assume a position between the head of the carrier-plate and the spur of the clamping-plate. The clamping-plate 9 is furthermore provided near its ends with depending pins 12, which extend a suitable distance below the plate to terminate on the horizontal plane of the lower edge of the T-shaped head on the carrier-plate 5, and these pins are adapted to serve as feet to assist in holding the device in a horizontal position when it is placed on a table, chair, or other surface. At or near the inner end of the shank 10, forming a part of the slid-able clamping-plate 9, is formed or secured a block 13, which is rigid with said shank and is provided with an axial female threaded opening, thus forming a nut which is adapted to travel on the clamping-plate 9, and in this nut is fitted an adjusting-screw 14, which is arranged in a horizontal position beneath the clamping and carrier plates. This adjust-ing-screw passes through an opening formed in the T-shaped head of the carrier-plate and through the coincident slots in the guide-plate 4 and end piece 2 of the handle, and at its exposed end said screw is formed with a head 15 and provided with a loose washer 16, the washer being interposed between the slotted end piece 2 and the screw-head 15.

The box-clamp having its members constructed as described and operatively combined with the adjusting and clamping screw 14 in the manner specified is adapted to be extended to accommodate itself to boxes of different sizes to be adjusted on the handle to different positions and enable boxes of varying depths to be used in proper relation to the hinged cover, and the single screw 14 serves as the means for adjusting the two parts of the box-clamp and for holding the clamp in its entirety firmly in position on the end piece 2, to which said clamp may be ad-
justed. When the cover is raised to the position shown by Fig. 1, the blacking-box may be readily placed on the carrier and clamping plates. The carrier-plate may be moved to the desired position on the guide-plate 4, according to the depth of the box, and the screw 14 may then be adjusted to draw the clamping-plate 9 inwardly toward the box for its spur 11 to engage therewith, and thus confine the box firmly in place between the head of the carrier-plate and the spur of the clamping-plate. The operation of tightening the screw 14 serves to clamp the carrier-plate firmly upon the guide-plate of the end piece 2, and thus all the parts of the extensible and adjustable box-clamp, as well as the box itself, are held or bound firmly together by a single screw.

The cover of my box-holder forms an integral part of the implement or device as distinguished from the ordinary box-covers, and in my improved device this cover is constructed of a size sufficient for use in connection with large and small boxes which may be adjusted to the holder. The cover 19 consists of a flat or disk-shaped plate which is rigidly attached to or made integral with an arm 18, one end of which is extended or prolonged beyond the edge of the cover. This extended end of the arm 18 is fitted in a recess or slot 20, provided in the handle at the line where the end piece 2 joins with said handle, and through the slotted part of the handle 100 and the extended end of the arm 18 is passed a pivot-pin 17, which serves as the hinged connection between the cover-carrying arm and the handle. This pivot-pin 17 passes through the extended end of the cover-arm 105 at a point within the extremity of said arm, thus leaving a short end 18° on the opposite side of the pivot from the arm, and against this extended short end 18° of the cover-arm bears a pressure-spring 21. The handle 110 is preferably constructed with side flanges, which form a reess on the lower side or face of the handle and adapted to serve as a holding for the spring 21, which is arranged longitudinally within the handle. In the preferred embodiment of my invention I prefer to employ a spring of the variety known to the art as a "leaf-spring," and one end of this spring is rigidly fastened to the handle by a transverse rivet 22. The free end of the spring is bent or offset, as at 23, and it is arranged to bear directly against the extended short end 18° of the cover-carrying arm. The tension of this spring is always exerted against the arm and cover to hold the latter 125 in either of its adjusted positions. When the cover is turned down to its substantially hori-zontal position over the upper open end of the box to close the latter, the spring bears against the under or lower edge of the end 130 18° of the cover-arm, but when the cover is raised to an upright position away from the box to expose the contents thereof,
as shown by Fig. 1, the end 23 of the spring bears against the end face of the cover-arm, thereby holding the cover firmly in its raised position. The opening or upward movement of the cover-arm is limited by the back edge of the arm 18 abutting against the end face formed by the recess or slot in the handle.

One of the important advantages attending the service of my improved box-holder is that the cover when turned to its raised position, as shown by Fig. 1 of the drawings, serves as a guard in preventing the spattering of the blacking when the dauber is thrust into the blacking-box, thus preventing the blacking from flying over the hands and the sleeve or cuff of the apparel. This hinged cover or lid is adapted to close tightly over the blacking-box to keep the blacking in a softened condition and prevent it from drying up, and to obtain this end the best advantage I provide a gasket 30 on the lower edge or face of said cover or lid. The gasket may consist of any suitable material, soft rubber being preferred, and said gasket may be of any suitable form.

While I have shown and described my invention as embodied in a device having a vertically adjustable and extensible box-clamp attached to the handle which sustains the hinged box-cover, I do not strictly confine myself to the employment of such extensible and adjustable clamp. In Fig. 5 of the drawings the holder is shown as having a box 25 attached thereto rigidly in any suitable way, or said holder may be employed to receive a box which may be readily removed when emptied and replaced by a fresh box. The handle 26 in this embodiment of the invention shown by Fig. 5 is attached to the box to extend outwardly and rearwardly therefrom, and said handle is formed with a slot or recess 27, in which is fitted the protruding short end 28 of the cover-carrying arm 25. This arm is attached to the cover or made integral therewith in the manner described in connection with the construction shown by Figs. 1 and 2, and the arm 25 is attached to the slotted or recessed end of the handle by a pivot-pin 29, which is firmly secured to the handle.

The spring 30 lies within the handle to have one end of said spring fastened to said handle, and the free end of the spring bears against the protruding end of the pivoted cover-carrying arm to normally force the cover firmly upon the box, said cover having the gasket on its lower face to make a tight joint between the box and the cover.

In Figs. 6, 7, 8, and 9 a further modification is shown and comprises a box 31 for holding the blacking, having an upper outwardly-projected downwardly-bent peripheral flange 32, as clearly shown by Fig. 7, and also provided with a clip-plate 33, secured to the side thereof, the ends of the said plate being bent over, as 34, to form guides which are vertically disposed. A handle 35 is provided for this modified form of the device, which is alike in the main features of construction to the handles 1 and 26, heretofore described, and is also supplied with a flat spring 36, similar to the springs 21 and 30, and having a forward-depending free extremity 37. In a front slot 38 in the upper portion of the front extremity of the handle the rear end of a cover-carrying arm 39 is pivotally mounted, the latter having a projecting end 39', which is rounded or curved to contact with and easily ride over the free extremity 37 of the spring 36. The said arm is firmly secured to a metallic lid or cover 40, which has on one side a seat-groove 41, conforming in contour to and adapted to closely fit over the flange 32 of the box 31 to form a tight joint with the latter. By the formation of the slot 38 the handle is provided with two depending arms 42 at its front extremity, which terminate in slide-members 43, standing in vertical planes and at outward angles of obliquity to give them a frictional binding action in the bent-over ends 34 of the clip-plate 33, with which they are adapted to adjustably engage. The lower ends 44 of the slide members 43 are bent upwardly to form hooks to engage the lower rim of the adjacent portion of the box, as shown by Figs. 6 and 7, to firmly support the box against downward pressure while removing the blacking therefrom with a dauber or like device. These boxes 31, with the clip-plates, can be easily constructed at a minimum cost, and one may be applied to the handle in place of another at will. The cover automatically closes through the action of the spring when thrown over past the center of its fulcrum, as in the previously-described devices, and in this form of the device the handle arches more and stands higher at its front extremity than the handles 1 and 26 in relation to the box. The said handles 1 and 26 may be likewise constructed without material change. The last-described form of the device is very much simplified as compared to the others and will efficiently serve in its capacity as a holder.

Having thus described the invention, what I claim is—

1. A box-holder comprising a slotted handle, a cover hinged thereto and adapted to serve as a guard when raised, and a spring supported by the handle and operatively connected with the cover to maintain the latter in its lowered or raised positions, the end wall of the handle-forming a stop for limiting the opening movement of the cover, substantially as described.

2. A box-holder comprising a handle, a cover-carrying arm attached at a point intermediate of its length to said handle by a hinged joint, a cover or lid carried by said arm, and a leaf-spring attached to the handle and acting against the short end of said cover arm, for the purpose described, substantially as set forth.

3. A box-holder comprising a slotted handle, an extensible box-clamp carried thereby, a cover-carrying arm pivoted to said handle...
at a point intermediate of its length, a cover carried by said arm, and a spring carried by the handle and operatively connected with said arm to maintain the cover in its lowered or raised position, the end wall of the handleslot forming a stop for limiting the opening movement of the cover, substantially as specified.

4. The combination with a handle and a cover supported thereby, of a box-clamp attached to the handle for adjustment thereon toward or from the cover, substantially as described.

5. In a box-holder, the combination with a handle and a cover, of an extensible box-clamp adjustably fitted to the handle to be moved thereon toward or from the cover whereby the clamp may be adjusted to accommodate boxes which may vary in diameter and depth, substantially as described.

6. In a box-holder, the combination with a handle and a cover, of a two-part box-clamp having its members extensibly fitted together and with one member fitted adjustably to the handle, and a single clamping device by which the box-clamp may be firmly held in its adjusted position on the handle and its members extended or contracted as desired, substantially as described.

7. In a box-holder, the combination with a handle and a cover, of a two-part box-clamp having one member adjustably fitted to the handle, and a clamp for holding the box-clamp in its adjusted position on the handle, substantially as described.

8. In a box-holder, a box-clamp consisting of a T-shaped carrier-plate provided with a guideway and a clamping-plate slidably fitted in the guideway and provided with a box-engaging face, in combination with a handle to which the T-shaped carrier-plate of the box-clamp is fitted, and a clamping-screw connected to the handle and having an adjustable connection with the clamping-plate, substantially as described.

9. In a box-holder, the combination with a handle, of a hinged cover, and a box-clamp fitted to the handle for adjustment thereon toward or from the hinge of said cover, and means for firmly holding the box-clamp in its adjusted position on the handle, substantially as described.

10. In a box-holder, the combination of a handle provided with a slotted end piece, a two-part box-clamp having its members extensibly fitted together, and with one member slidably fitted to said end piece, a single screw fitted to the handle and adjustably connected with the extensible member of the box-clamp, and a cover pivoted to the handle above the limit of adjustment of the box-clamp thereon, substantially as described.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in the presence of two witnesses.

GEORGE A. JOY.

Witnesses:

E. N. BENSON,

CHARLES F. ALLEN.