

No. 849,358.

PATENTED APR. 9, 1907.

N. L. BARMORE.
BOX HANDLE.

APPLICATION FILED JUNE 11, 1906.

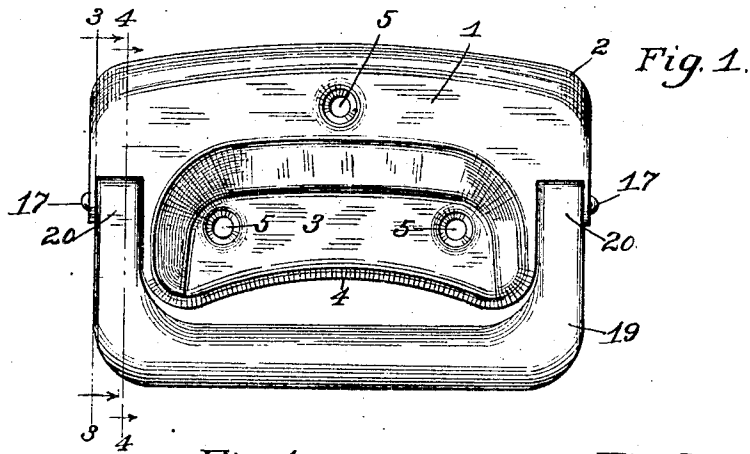


Fig. 3.

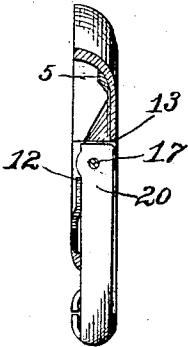


Fig. 4.

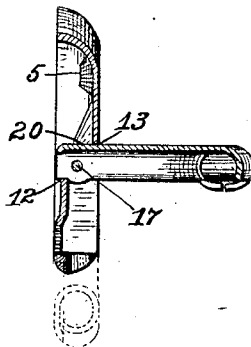


Fig. 5.

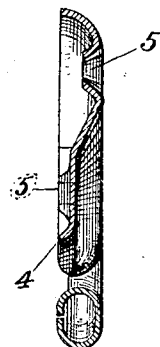


Fig. 6.

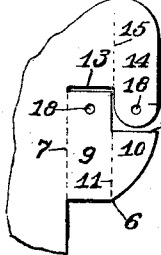


Fig. 2.

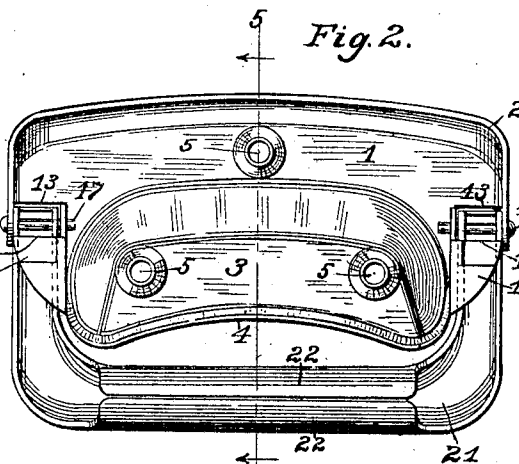
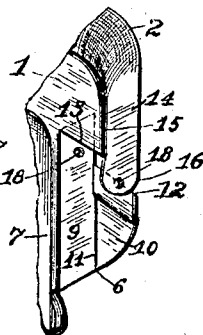


Fig. 7.



Witnesses:-

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UNITED STATES PATENT OFFICE.

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BOX-HANDLE.

No. 849,358.

Specification of Letters Patent.

Patented April 9, 1907.

Application filed June 11, 1906. Serial No. 321,290.

To all whom it may concern:

Be it known that I, NATHANIEL L. BARMORE, a citizen of the United States of America, residing at Chicago, county of Cook, and State of Illinois, have invented certain new and useful Improvements in Box-Handles and the Like, of which the following is a description.

My device belongs to that class of handles designed for attachment upon boxes, chests, tanks, and the like for convenience in handling them, and has for its object the construction of such a handle as an article of manufacture which shall be cheap and economical in construction and durable and convenient in use.

To this end my invention consists in the novel construction, arrangement, and combination of parts herein shown and described, and more particularly pointed out in the claims.

In the drawings, wherein like reference characters indicate like or corresponding parts, Figure 1 is a front view of my improved device with the handle closed. Fig. 2 is a rear view of the same. Fig. 3 is a section on line 3 3 of Fig. 1. Fig. 4 is a section on line 4 4 of Fig. 1. Fig. 5 is a section on line 5 5 of Fig. 2. Fig. 6 is a fragmentary view of the base-blank before it is formed up, and Fig. 7 is a perspective view of the same after it is formed up.

In the drawings, 1 indicates a base, preferably of sheet metal, with the upper portion swelled out to provide room for the working of the handle ends and to permit of a marginal rim 2 upon its top and ends, which seat upon the supporting structure. The lower part 3 is depressed or set back with the lower margin 4 arranged in the plane of the upper margin 2, so that the base will have a firm seat upon the supporting structure. This depression in addition to the function stated also gives the base an artistic appearance and adds greatly to the convenience in operating the handle proper. The base is also provided with suitable screw or rivet holes 5 for convenience in attaching the base in position. When the device is of the preferred material—that is to say, sheet metal—the blank at the ends of the base is substantially in the form shown in Fig. 6, in which an extension 6 is cut substantially as shown and first folded backward, bringing

the part 9 substantially at right angles to the face of the base. The part 10 is then bent outward substantially on the line 11, so as to lie parallel to the face of the base. The edge 12 thus forms a stop for the lower surface of the extending end of the handle when it is in position, while the shoulder 13 forms a coincident stop for the upper surface of the handle when it is opened out in operative position. The margin 14 is then bent substantially on the line 15, bringing the lower portion 16 thereof substantially at right angles to the face of the base and parallel to the part 9. The two thus form ears between which the end of the handle is positioned and pivotally secured in such position by means of a rivet 17, extending through the handle with its ends supported in the ears in the rivet-holes 18 18.

Fig. 7 shows the end of the base formed up in shape for the attachment of the handle. 19 is the handle proper, having its ends 20 formed to loosely enter the space between the ears 8 and 16 and to be pivotally supported therein by means of the rivet 17. The grip 21 of the handle is preferably folded down, as shown at 22 22 in Fig. 5, to form a smooth grip that will not cut the hand.

Fig. 3 shows the handle in position when closed down, and Fig. 4 shows the same when the handle is opened out and in operative position.

Fig. 5 clearly shows the preferred form of the device in section and illustrates the fact that it has a firm bearing about its margin upon the supporting structure.

It will be apparent from an examination of Fig. 4 that, by reason of the peculiar construction, in operation the handle firmly engages the base by reason of the simultaneous engagement of the opposite sides of the handle with the stops 12 and 13 without strain upon the rivet 17. The rivet simply operates as the pivotal member of the handle.

It is obvious that the device may be made of cast metal, if desired; but, as indicated, in the preferred form it is of sheet metal. The parts first being cut in suitable blanks are then formed up on the necessary dies to give them the necessary contour.

Having thus described my improvement, it is obvious that immaterial modifications may be made without departing from the spirit of my invention. Hence I do not wish

to be understood as limiting myself to the exact form and construction shown.

What I claim as new, and desire to secure by Letters Patent, is—

- 5 1. As an article of manufacture, a box-handle or the like comprising a base provided near each end with a part extending backward at right angles to the face of the base, and spaced from the outer wall thereof, forming with the latter supporting-ears, with a
10 portion extending thence outward parallel to the base forming a limiting-stop for the end of the handle, in combination with a handle having its ends positioned in said spaces and
15 pivotally secured to said ears, with rearward extensions arranged to contact with said limiting-stops when the handle is in operative position limiting further movement thereof in that direction.
- 20 2. As an article of manufacture, a box-handle or the like, comprising a base provided near each end with a stop 13, and with a part extending backward at right angles to the face of the base, and spaced from the
25 outer wall thereof to form supporting-ears for a handle, a portion of said part thereof extending thence outward parallel to the base forming a limiting-stop for the handle, in combination with a handle having its ends
30 positioned in said spaces and pivotally secured between said ears, with rearward extensions arranged to contact with said stops when the handle is in operative position and at the moment the upper surface of the handle
35 contacts with the stop 13 on the base, whereby when in operative position the handle engages the base on each side of the pivotal support relieving the pivot from the strain.
- 40 3. As an article of manufacture, a box-handle or the like comprising a sheet-metal base provided near each end with a part extending backward at right angles to the face
45 of the base spaced from the outer wall thereof forming with the latter ears for the support of the handle, with a part extending thence outward parallel to the base forming a limiting-stop for the ends of the handle, in
50 combination with a sheet-metal handle having its ends squared to loosely fit between the

ears of the base and pivotally secured therein, with rearward extensions arranged to contact with said limiting-stops when the handle is in operative position, limiting the further movement thereof in that direction. 55

4. In a device of the kind described, a base having its upper portion swelled outward with a rearward margin to seat upon the supporting structure, with its lower part depressed and lying in the same plane with the
60 margin of the upper part, the base being provided with a part extending backward at right angles to the face of the base and spaced from the end margin thereof to form supporting-ears for the handle, with a part
65 extending thence outward parallel with the base forming a limiting-stop for the end of the handle, in combination with a handle having its ends positioned in said spaces between the ears and pivotally secured thereto
70 with rearward extensions arranged to contact with said limiting-stops when the handle is in operative position, limiting further movement thereof in that direction.

5. In a device of the kind described, a base
75 having its upper portion swelled out with the margin extending rearward to seat upon the supporting structure and with the lower portion depressed with its margin in the plane of the margin of the upper part, a stop 13
80 formed on the base, a part extending backward at right angles to the face of the base spaced from the outer margin thereof to form supporting-ears therewith for a handle, and a part extending thence outward parallel
85 to the base forming a limiting-stop for the handle, in combination with a handle having its ends positioned between the ears of said spaces and pivotally supported therein, with rearward extensions arranged to contact with
90 said stop when the handle is in operative position, and at the moment the upper face of the handle contacts with the stop 13.

In testimony whereof I have hereunto signed my name in the presence of two subscribing witnesses. 95

NATHANIEL L. BARMORE.

Witnesses:

BURTON U. HILLS,
CHARLES I. COBB.