

April 29, 1924.

1,492,100

T. H. KRUEGER

HANDLE FOR BOXES AND PARCELS

Filed Sept. 29, 1921

2 Sheets-Sheet 1

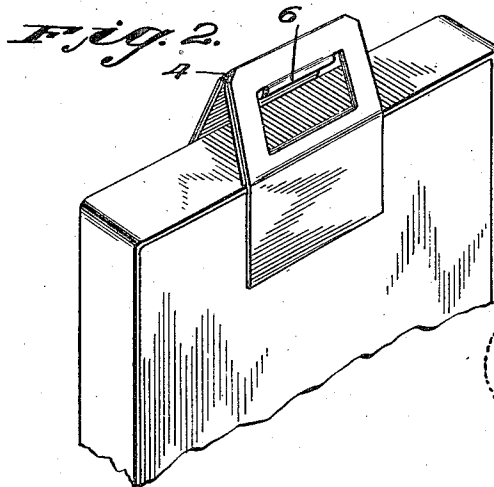


Fig. 1.

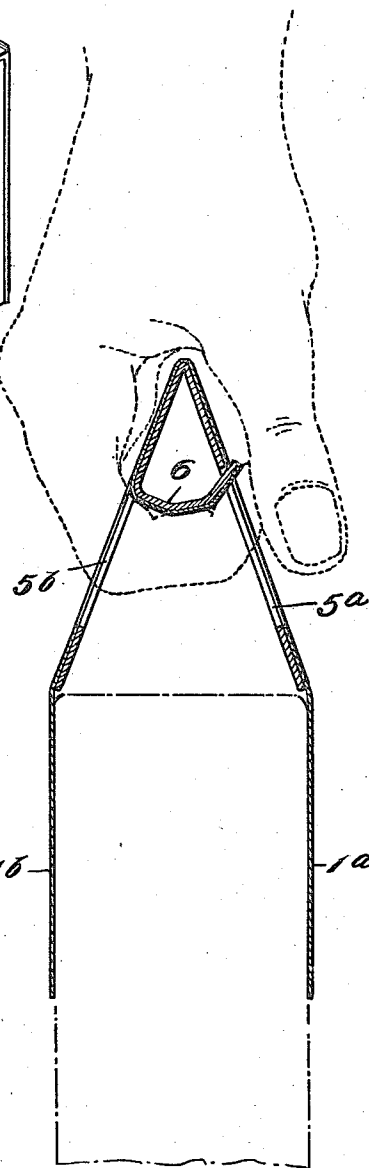
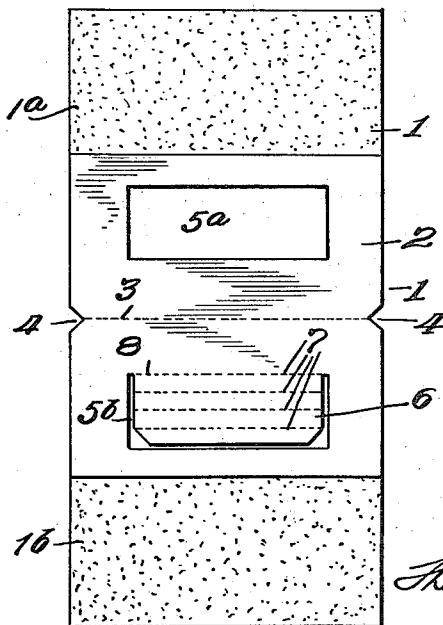


Fig. 3.

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Fig. 4.

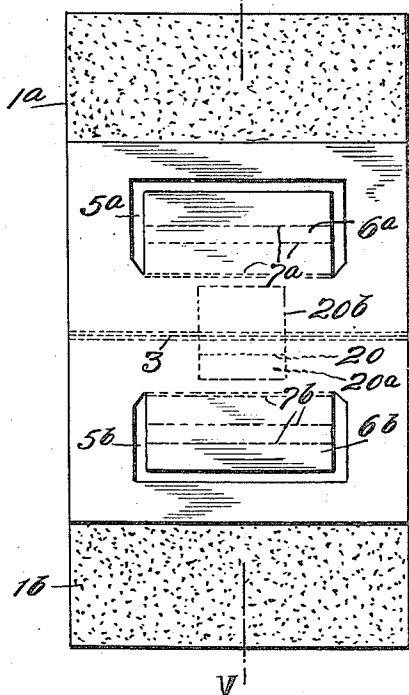


Fig. 5.

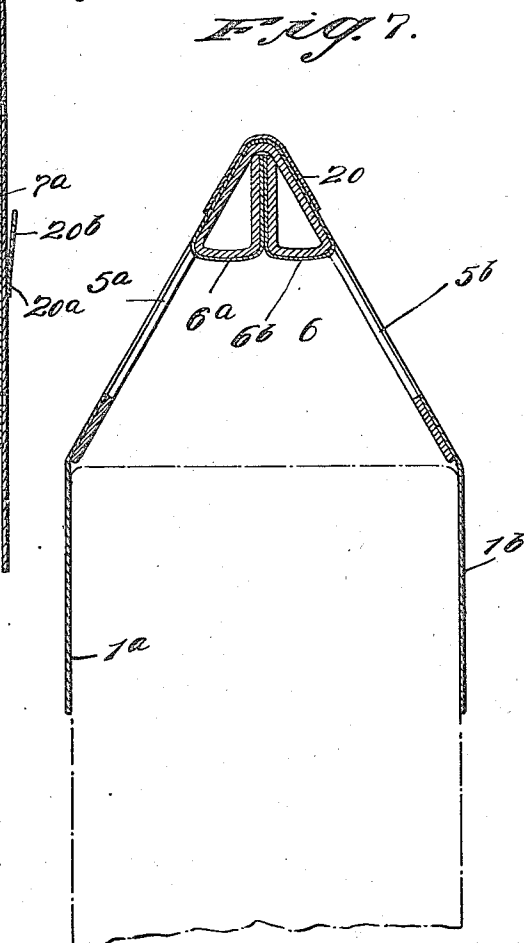


Fig. 7.

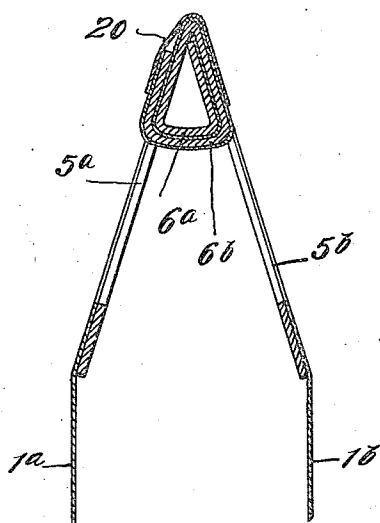


Fig. 6.

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UNITED STATES PATENT OFFICE.

THEODORE H. KRUEGER, OF NEW YORK, N. Y.

HANDLE FOR BOXES AND PARCELS.

Application filed September 29, 1921. Serial No. 504,233.

To all whom it may concern:

Be it known that I, THEODORE H. KRUEGER, a citizen of the United States, residing in the city, county, and State of New York, have invented certain new and useful Improvements in Handles for Boxes and Parcels, of which the following is a specification.

This invention relates to devices which may be attached to parcels and the like for serving as handles, whereby the same may be carried.

It proposes a handle which, unlike the usual well-known forms of handles, does not require the use of twine for suspending the parcel from the handle. It is, therefore, of particular importance for use in connection with packages or parcels that are sealed with gummed paper tape rather than being tied by twine, thus eliminating the necessity of using twine for such packages merely in order to make the ordinary type of carrying handle applicable thereto.

The invention accordingly proposes a handle composed of paper, cardboard or other sheet material provided with gummed members whereby the same may be applied to the parcels to be carried, the construction of the handle being such that it will be capable of withstanding large strains, in order that it may be employed with safety on parcels of comparatively heavy weight. It proposes a handle which may be secured to both sides of a parcel so that the strain on the gummed attaching members is minimized.

Another feature of the invention consists in providing a handle which may be adjusted to narrow or wide parcels. Still another purpose of the invention consists in providing a handle stamped out of sheet material by automatic machinery and thus manufactured very cheaply.

A good understanding of the invention may be had from the following description of a specific form of embodiment thereof, reference being had to the accompanying drawing in which,

Figure 1 is a plan view of one form of device embodying the invention;

Figure 2 is a perspective view showing the device operatively attached to a parcel;

Figure 3 is a vertical sectional view of Figure 2;

Figure 4 is a view similar to Figure 1, showing a modified form of embodiment of the invention;

Figure 5 is a section of Figure 4 on line V—V;

Figures 6 and 7 are views similar to Figure 3, showing the handle of Figure 4 applied to a narrow and a wide parcel, respectively.

Similar characters of reference designate similar parts in each of the several views.

The device illustrated in the drawing consists of a rectangular sheet 1 of gummed paper or other material, the inner portion of which is glued to a re-enforcing strip 2 of cardboard or other suitable material, thus providing gummed ends 1^a and 1^b extending beyond the edges of the cardboard. The inner portion is provided with triangular notches 4 and is scored through the middle as indicated at 3, so that the same may be folded with the gummed extensions 1^a and 1^b facing each other, as indicated in Figures 2 and 3. Openings 5^a and 5^b are provided in the inner portion at equal distances from the fold 3, but the material of the sheet at one of the openings 5^b, is cut away at only three sides, so as to form a flap 6 extending from the edge 8 adjacent to the fold. This flap is provided with scorings 7, one in edge 8 and the others parallel thereto and arranged to permit the flap to be folded inwardly and extended into the opposite opening 5^a when the sheet is folded, as illustrated in Figure 3.

In practical use the device is attached to the parcel which is to be carried by moistening of the gummed ends 1^a and 1^b, the latter ends being preferably applied to the vertical walls of the parcel so that the strain of carrying will be substantially in the plane of the paper and there will be little or no tendency to shear. The flap 6 is then bent inwardly and extended through the opening 5^a, this being accomplished by simply inserting the fingers of the hand through opening 5^b in the manner shown in Figure 3; whereupon the device is ready for use. It will be observed that owing to its scorings the flap assumes a substantially flat or slightly convex under surface when in use, thus not only protecting the fingers from the upper edges of openings 5^a and 5^b but shaping itself to the curve of the fingers. The comfort and convenience with which

the parcel may be carried is thus materially enhanced.

A modified form of embodiment of the invention is illustrated in Figures 4, 5 and 6. This form differs from the one hereinbefore described primarily in that a flap, 6^a and 6^b, is provided at each side of the scoring 3, each flap being provided with scorings 7^a and 7^b, respectively. The handle so formed is used on narrow parcels in the manner indicated in Figure 6, the one flap 6^a being folded so that its end extends into the apex of the handle, and the other flap 6^b being extended through opening 5^a so that its end lies against the exterior surface, where it may be secured in place by a seal 20 of gummed material. Although this seal may consist merely of a patch of gummed material applied to the handle after the same has been attached to the parcel and folded, I prefer to furnish the seal with the handle in the form of a tab of gummed material having one end 20^a pasted to the handle, the other end 20^b thereof being left unmoistened so that it does not stick. When the handle has been folded as indicated in Figure 6, the free end of the tab is moistened and applied to the outer flap 6^b. This flap is thus secured in place and the various parts constituting the grip member of the handle are thus firmly united to each other. It will be understood that instead of the tab, other means may be provided for holding the flap in place. For example, the flap may be interlocked with the body, as by a tongue and slot connection. It will be observed that by securing the flap to the body the strength and rigidity of the handle are increased, so that it may be employed on parcels of considerable weight.

Another advantage of this handle consists in its adaptability to packages of different widths. When folded as in Figure 6, it is particularly adapted to narrow packages. When the parcel is of such width, however, that the flaps are of insufficient length to be used as in Figure 6, the same may be folded, as illustrated in Figure 7, so that the outer ends of both flaps extend into the apex of the handle.

It may be here noted that when the handle is used in the manner illustrated in Figure 7, the tab 20 has no function. Its free end 20^b may therefore be removed, or it may be moistened and applied to the handle, as illustrated. Packages which are too wide to have the gummed ends of the handle applied to the vertical sides may be carried by securing the said ends of the upper surface of the parcel, but this manner of fastening the handle is less desirable and should be avoided when possible.

One of the cardinal features of either form of the device, other than its simplicity and cheapness of manufacture, resides in its

flatness, when opened out. Because of this feature, large quantities of the carrier handle may be packed in convenient bundles and thus placed in trade. Its extraordinary cheapness, moreover, renders it economical to destroy the device after a single use and makes it feasible for a department or other store to have them applied to any suitable parcel for the convenience of its customers, at a very small cost.

Although I have herein shown and described only two forms of embodiment of the invention, it will be readily understood that many changes and modifications may be made therein without departing from the spirit and scope of the invention, it being my intention to claim the same broadly in whatever form its principles may be embodied.

What I claim is:

1. A parcel handle of the character described, consisting of sheet material having a plurality of oppositely disposed hand openings therein, a grip member for cooperating with said opening, and means for securing the handle to a package.
2. A parcel handle of the character described, consisting of sheet material provided with hand openings, a grip member formed of said sheet material for cooperating with said openings, and means for securing the handle to a parcel.
3. A parcel handle of the character described, consisting of sheet material provided with hand openings, a grip member consisting of a tongue projecting from one of said openings and adapted to be extended through the other of said openings, and means beyond the hand openings for securing the handle to a parcel.
4. In a device of the character described, a member of sheet material folded in the middle and provided with openings on each side of the said fold, means whereby the outer ends of said member may be secured to an article to be carried, and a grip member associated with one side of said folded material and adapted to be extended through said opening in the other side of said material.
5. A parcel handle of the character described, comprising a plurality of side members of sheet material, means whereby said members may be secured to an article to be carried, said members being provided with hand openings above the securing means, and a grip member for cooperating with said openings.
6. In a device of the character described, a sheet of material having gummed ends for attachment to a parcel to be carried, a sheet of re-enforcing material united to the middle portion of the said sheet, said re-enforced part of the sheet being scored in the middle and provided with openings ex-

tending parallel to said scoring, and a flap formed of the material of one of said openings and extending from the edge thereof adjacent to said scoring, said flap being provided with scorings parallel to said edge.

7. A device of the character described, comprising a plurality of side members of sheet material, means whereby said members may be secured to an article to be carried, said members being provided with hand openings above the securing means, and a grip member for cooperating with said openings, said grip member being formed of the material of the side members and having a substantially flat under surface.

8. A device of the character described, comprising a sheet of material scored through the middle and provided with grip openings at each side of said scoring, said sheet being provided with a flap at each of said openings, said flaps being scored parallel to said first-mentioned scoring whereby the same are adapted to be folded one over the other when said handle is applied to a parcel to be carried.

9. In combination, a member of sheet material provided with gummed ends for attachment to a parcel, said member being scored across the middle and provided with hand openings at both sides of the middle, and a scored sheet of material for cooperating with said hand openings, said sheet

being scored so as to adapt itself to the hand.

10. In combination, a member of sheet material provided with gummed ends for attachment to a parcel to be carried, a sheet of re-enforcing material applied to the said member to re-enforce the intermediate portion thereof, said intermediate portion being scored through the middle and provided with flaps formed of the material of the said portion, said flaps being adapted to be folded to form a grip member, and means for retaining said flaps in said folded position.

11. In combination, a member of sheet material provided with gummed ends for attachment to a parcel to be carried, a sheet of re-enforcing material applied to the said member to re-enforce the intermediate portion thereof, said intermediate portion being scored through the middle and provided with flaps formed of the material of the said portion, said flaps being adapted to be folded to form a grip member, and a tab of gummed material associated with said member and adapted to be moistened and applied to said flaps for retaining the same in their folded positions.

In testimony whereof I have affixed my signature to this specification.

THEODORE H. KRUEGER.