May 5, 1931. W. F. GOEZ 1,803,755

ARTICLE CARRIER

Filed Jan. 12, 1931

Fig. 1

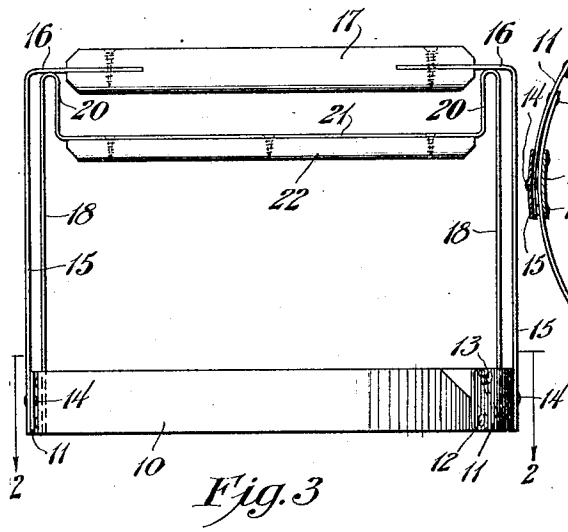


Fig. 3

Fig. 2

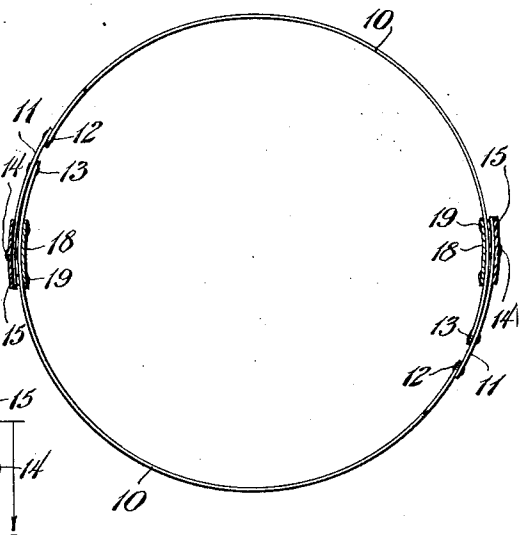
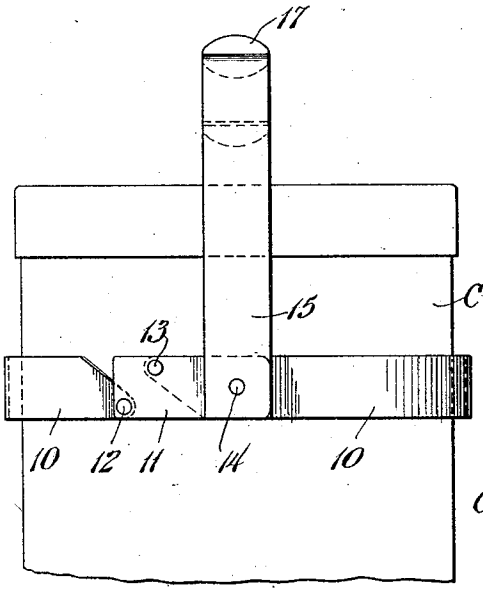
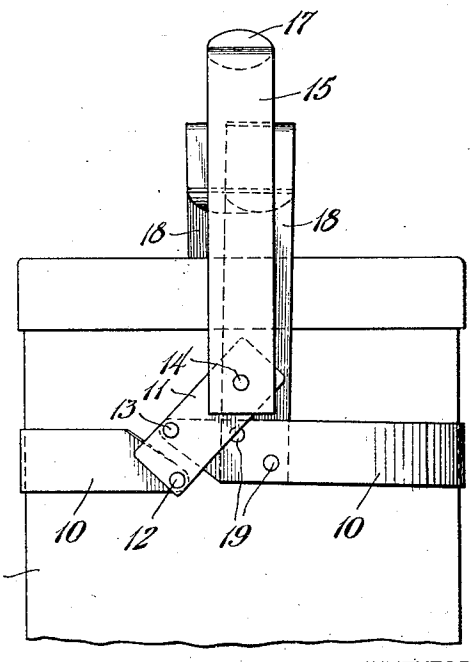


Fig. 4





INVENTOR
William F. Goez

BY Siggers & Adams
ATTORNEYS

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UNITED STATES PATENT OFFICE

WILLIAM F. GOEZ, OF KEOKUK, IOWA, ASSIGNOR TO IOWA FIBER BOX COMPANY, OF KEOKUK, IOWA, A CORPORATION OF DELAWARE

ARTICLE CARRIER

Application filed January 12, 1931. Serial No. 508,296.

This invention relates to article carriers and, among other objects, aims to provide an improved device facilitating the handling and carrying of articles, such as cans.

In the accompanying drawings showing a preferred embodiment of the invention,—

Fig. 1 is a side elevation of the improved article carrier;

Fig. 2 is a sectional view taken on the line 2—2 of Fig. 1;

Fig. 3 is an elevation at right angles to Fig. 1 and showing the device in position to engage an article to be carried; and

Fig. 4 is a view similar to Fig. 3 but showing the device engaging the article.

Referring particularly to the drawing, the preferred embodiment of the invention is there shown as being constructed to handle a cylindrical article, such as an ice cream can. Such containers, which are either of metal or heavy paper, are not usually provided with flanges beneath which an ordinary carrier may engage. The containers, which may have capacities as high as 10 gallons, are usually carried by grasping them with both hands, or if two are to be carried one is placed under either arm. This manner of handling is very awkward, both in picking them up and in setting them down. With the present device, two containers may be lifted and carried with the same ease as one would carry two buckets.

The device is here shown as having an article-engaging band formed of two semi-circular clamping members 10 of thin, flexible sheet metal. The ends of the clamping members 10 are connected together by means of flat links 11 arranged outside of the members 10 and each having one of its lower corner portions pivotally connected, as at 12, to the lower corner of one member 10, and being pivoted, as at 13, to the extremity of the other clamping member 10. The other ends of the links are pivotally connected, as at 14, to the lower ends of vertical side arms 15. As the pivots 12 and 14 are on opposite sides of the link pivot 13, the links are in effect bell crank levers. The arms 15 extend upwardly and, at their upper ends, are bent inwardly, at 16, and secured to a handle 17 to form a bail.

It will be seen that if the handle 17 is raised, the ends of the links 11 connected to the arms 15 will be swung upwardly about the pivots 13 causing the pivots 12 also to swing around the pivots 13 and draw the adjacent ends of the clamping members toward each other and clamp the container between them. Compare Figs. 3 and 4. It will be noted that the end of the clamping member 10 having its lower edge connected to the link has its upper corner cut off, while the lower corner of the adjacent member 10 is cut away so that the ends of the clamping members may overlap when drawn together.

To hold the clamping members 10 in substantially horizontal alinement, so that they may be easily slipped over and also released from a container, a second bail is provided within the first bail, as clearly shown in Fig. 1. The lower ends of the arms 18 of the inner bail are rigidly secured to the inside of the members 10 as by rivets 19, one arm 18 being connected to one clamping member 10 near its end while the other arm 18 is similarly connected to the other member 10. The clamping members have a tendency to swing downwardly in opposite directions around their pivots, which is prevented by the connections to the second bail. The arms 18 extend upwardly to the bent portion 16 of the first bail where they are turned downwardly, as at 20 (Fig. 1) and then inwardly to provide a horizontal connecting portion 21 spaced beneath the handle 17. A filler strip 22 is secured to the underside of the portion 21 to provide a comfortable handle grip.

When the device is to be engaged with a container, both handles 17 and 22 are grasped in one hand with the upper ends of the arms 18 engaged beneath the portions 16, as shown in Fig. 1. The device is then lowered over the top of the container C, as shown in Fig. 3. The fingers of the hand are then inserted between the handles 17 and 22 so that only the handle 17 is grasped. The handle 17 is then raised and the clamping elements 10 will be drawn toward each other, as previously described, and will clamp the container between them (Fig. 3) when the container may be lifted and carried about, provided that its

weight is supported only from handle 17. When it is desired to release the container, the container is lowered to its desired position and both handles 17 and 22 are again grasped in one hand and urged toward each other by closing the hand, thereby causing the clamping members to expand, as in Fig. 3, thus permitting withdrawal of the carrier.

It will be seen that one of these carriers may be used in each hand so that two containers may be carried at the same time. Also, the contour of the clamping hand may be square, rectangular or any desired shape to correspond to the perimeter of the particular article to be handled. Moreover, the carrier may be manufactured at a low cost.

Obviously, the present invention is not restricted to the particular embodiment thereof herein shown and described.

What I claim is:—

1. An article carrier comprising, in combination, a pair of clamping members; a bail; a pair of links each pivotally connected at one end to one end of one clamping member, and each having its intermediate portion pivotally connected to the adjacent end of the other clamping member, the other end of each link being pivotally connected to one arm of the bail.

2. An article carrier comprising, in combination, a pair of clamping members; a bail; a pair of links each pivotally connected at one end to one end of one clamping member, and each having its intermediate portion pivotally connected to the adjacent end of the other clamping member, the other end of each link being pivotally connected to one arm of the bail; and a second bail having one of its arms rigidly connected to one of the clamping members and its other arm rigidly connected to the other clamping member.

3. An article carrier comprising, in combination, a pair of clamping members; a bail; a pair of links each pivotally connected at one end to one end of one clamping member, and each having its intermediate portion pivotally connected to the adjacent end of the other clamping member, the other end of each link being pivotally connected to one arm of the bail; and a second bail wholly enclosed within the first bail and having one of its arms rigidly connected to one of the clamping members and its other arm rigidly connected to the other clamping member.

4. An article carrier comprising, in combination, two segmental clamping members adapted together to surround the article to be carried; a link pivotally connected at one end to the end of each clamping member and pivotally connected intermediate its ends to the other end of the other clamping member; a bail having a substantially horizontal handle portion and having its side arms pivotally connected to the free ends of the links; a second bail having the ends of its arms connected to one end of each clamping member; the upper ends of said arms abutting beneath the handle portion of the first bail; and a handle connecting the side arms of the second bail and spaced beneath the handle of the first bail.

5. An article carrier comprising, in combination, a pair of semi-circular flexible metal clamping members; a pair of links each having one of its lower corners pivotally connected to the lower corner portion of one of the clamping members and having its intermediate upper portion pivotally connected to the upper corner portion of the adjacent end of the other clamping member; and a bail having the lower ends of its side arms pivotally connected to the other ends of the links.

6. An article carrier comprising, in combination, a pair of semi-circular flexible metal clamping members; a pair of links each having one of its lower corners pivotally connected to the lower corner portion of one of the clamping members and having its intermediate upper portion pivotally connected to the upper corner portion of the adjacent end of the other clamping member; a bail having the lower ends of its side arms pivotally connected to the other ends of the links; and a second bail member having the lower end of one of its side arms rigidly secured to one of the clamping members and its other arm similarly connected to the other clamping member, the connections last named being adjacent the ends of the clamping members on which the pivots for the links are located.

7. An article carrier comprising, in combination, two complemental article-gripping members movably connected together at their ends so as to approach and recede from each other while lying substantially in the same plane; a bail rigidly connected at its lower ends to one member at one end and to the other member at the opposite end; a second bail; and means connecting the lower ends of the second bail to one member at one end and to the other member at the opposite end.

In testimony that I claim the foregoing as my own, I have hereto affixed my signature.

WM. F. GOEZ.