

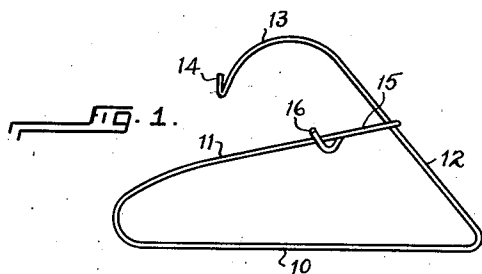
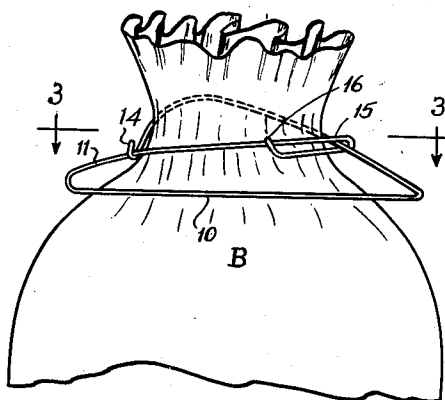
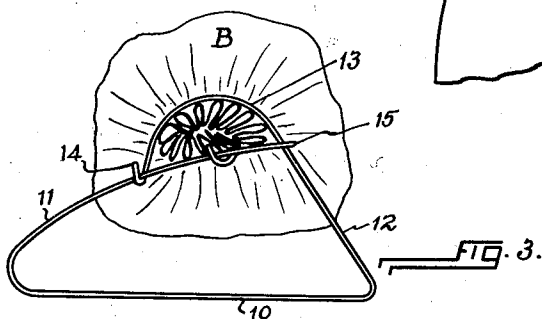
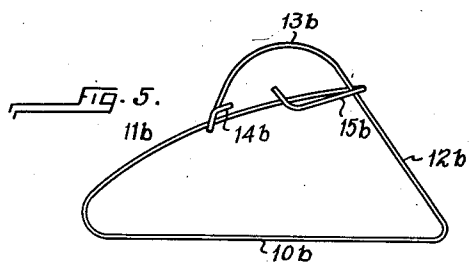
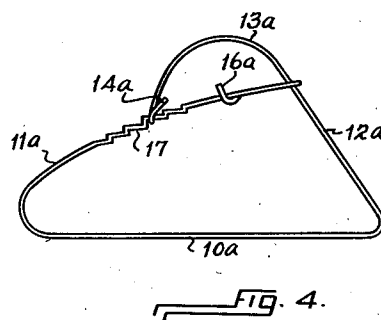
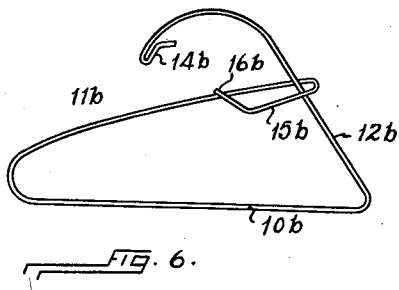
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DEVICE FOR CLOSING AND CARRYING CONTAINERS

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DEVICE FOR CLOSING AND CARRYING
CONTAINERS

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9 Claims. (Cl. 294-1)

This invention in general is applicable to a device for closing and carrying a container. The structure is formed from a single piece of resilient material, for example, spring wire, so fashioned as to provide a device which is readily attached to and detached from a container and which, when attached, not only closes the end of the container but also serves as a handle for carrying it.

It is common practice to close the ends of a bag-like container by a tie wire twisted around the gathered material which forms the mouth of the bag. Such a practice has its advantages but also its disadvantages, amongst which are that it is not feasible to disengage the tie so that the bag end can be opened to permit inspection of the bag contents and then be readily closed by use of the same tie. Nor does such a fastener provide a handle for carrying the bag and, furthermore, the security of the tie depends on its initial application.

I have invented a device which overcomes these disadvantages. The combined fastener and handle made and applied according to my invention can readily be placed in position around the gathered end of the bag to firmly close the end of the bag and grip the material forming the end more tightly when the bag is lifted since the greater the weight of the container and contents the tighter the end is gripped. My device also forms a more convenient carrying handle.

It is well-known that a slip noose is a convenient and secure arrangement for tying one object to another, and particularly is this true when an object is to be suspended, as the weight of the suspended object insures a tight connection. My invention makes use of the holding powers of a noose while the material from which a noose is made may be fairly stiff and resilient. The device is simple in construction, very economical to manufacture, simple to apply or disengage, and provides a very satisfactory means for handling and carrying a container with which it is used.

One of the objects of my invention is to make a slip noose structure out of resilient or semi-rigid material, or out of a piece of steel spring wire. Another object is to use such a slip noose in connection with a convenient carrying handle.

In the accompanying drawing, wherein like numerals show similar parts, I have shown for purposes of illustration only certain present preferred embodiments of my invention. In the drawing—

Figure 1 is a plan view of a fastener and handle device ready for application to a container;

Figure 2 is a perspective view showing the device applied to a bag to close the mouth thereof;

Figure 3 is a plan view along the line III—III of Figure 2;

Figure 4 is a plan view showing a modified fastener and handle device;

Figure 5 is a plan view showing another modified fastener and handle device; and

Figure 6 is a view of the modification shown in Figure 5, but showing the device unhooked and slightly tilted.

The combined closure fastener and handle illustrated in Figures 1, 2 and 3 may be conveniently made from a continuous piece of resilient material, such as spring wire of suitable length. The wire is bent to form a straight portion or handle 10, and two arms 11 and 12, disposed respectively on opposite sides of the handle portion 10. The arm 12 extends substantially straight for a distance and is then curved to form a noose portion or loop 13. The end of the arm is bent back on itself to form a hook 14. The other arm 11, which I prefer to extend from the handle in a fairly gradual bend, extends to the arm 12 and is bent back on itself to form an elongated eye 15 which embraces the arm 12. The end of the arm 11 passes inside the handle side of the arm and across and over it, and terminates in the point 16. The point 16 will engage the bag material when the bag is lifted and help to prevent relative movement between the bag and the noose.

In using my device I first gather the material adjacent the top of the bag B, after which the arm 11 and the noose portion 13, in the open position shown in Figure 1, is manipulated to embrace the gather. The hook 14 is then engaged with arm 11 as shown in Figures 2 and 3. The resiliency of the wire will cause the device to closely embrace the gathered bag end. The bag can then be lifted by the handle 10.

In Figure 4 I have shown a modification in which a portion of the arm 11a is shaped to form a ratchet 17 which will allow the hook 14a to slide in one direction, to the right, but will prevent sliding movement in the opposite direction along the arm 11a. This arrangement permits the noose 13a to be forced into very close engagement with the bag gather and to be locked against loosening. The noose can readily be disengaged by unhooking the hook 14a. It will be observed that the arm end 16a and the end of a hook 14a extend into the noose a short distance

to provide points for engagement with the bag material in the noose, and this enhances the anti-slip properties of the device.

The modified device illustrated in Figures 5 and 6 differs from that shown in Figures 1, 2 and 3 in that the end of the arm 11b terminates in a shepherd's crook, and the end of the hook 14b is bent sharply to extend into the noose.

It is realized that the present invention may be embodied and practiced in constructions other than those specifically disclosed herein and therefore the disclosures are to be considered as illustrative and not in a limiting sense.

I claim:

1. An article of the class described comprising a handle formed from a piece of resilient wire with extending portions, the portions of wire extending from the opposite ends of the handle being formed into a slip noose, the distal end of one of the noose-forming portions of the wire being shaped for detachably sliding engagement in one direction only with one of the noose-forming portions of the wire.

2. A combined closure fastener and handle formed from a piece of spring wire bent to form a handle and a noose, each of the ends of the wire forming the noose having a hooked portion to engage a relatively straight portion of the other end of the wire.

3. A combined closure fastener and handle formed from a piece of spring wire bent to form a handle and a noose, one of the ends of the wire forming the noose having a hooked portion to engage a portion of the other end, the last named portion having means thereon to permit sliding of the hooked portion in only one direction therealong.

4. A combined closure fastener and handle formed from one piece of resilient material bent to form a handle with extending arms, one arm of the handle extending through a hooked end of the other arm, and bent to form a loop, the end of the loop having a hook and being slidably engaged with the first mentioned arm in such manner that sliding can take place in one direction only.

5. A combined closure fastener and handle formed from one piece of resilient material bent to form a handle with extending arms, one arm

of the handle extending through a hooked end of the other arm, and bent to form a loop, the end of the loop having a hook which slidably engages the first-mentioned arm, the extreme end of at least one arm being inclined inwardly toward the second loop in such manner that sliding can take place in one direction only.

6. An article of the class described formed from one piece of resilient wire, comprising a handle, two arms extending from opposite ends of the handle, the end of each arm being formed to embrace the other arm and form a slip-noose, both arms being shaped to permit the sliding thereon of said arm-embracing ends, whereby both of the noose-forming portions of said arms become shorter as the noose is tightened.

7. An article of the class described formed from one piece of resilient wire, comprising a handle, two arms extending from opposite ends of the handle, the end of each arm terminating in a hook which slidably engages the other arm, the portions of the arms between the hooks forming a slip noose and both of such noose-forming portions of the arms decreasing in length when the noose is tightened, the end of one of said hooks facing into the noose.

8. A combined closure fastener and handle formed from one piece of resilient material bent to form a handle with extending arms, one arm extending through and having a sliding engagement with a hooked end of the second arm, the end portion of said first mentioned arm being bent to form a loop, the end of the loop having a hook thereon which slidably engages the second arm to form a slip-noose, both of the noose-forming portions of said arms decreasing in length when the noose is tightened.

9. A combined closure fastener and handle formed from one piece of resilient material bent to form a handle with extending arms, one arm extending through and having a sliding engagement with a hooked end of the second arm, the end portion of said first mentioned arm being bent to form a loop, the end of the loop having a hook thereon which slidably engages the second arm, said second arm having a portion thereof shaped as to permit sliding of a hook therealong in one direction only.

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