Feb. 11, 1941. H. T. LEO ET AL 2,231,273

BAG-HOLDING DEVICE

Filed Aug. 23, 1939

Fig. 1.

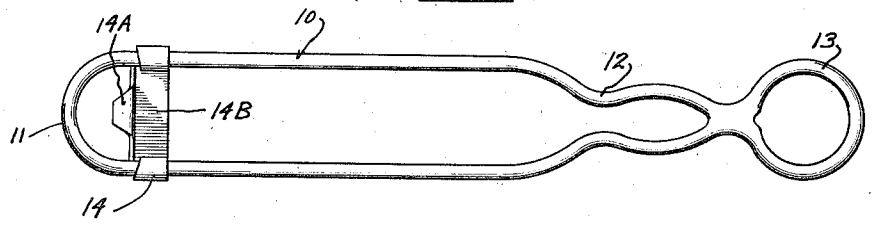


Fig. 2.

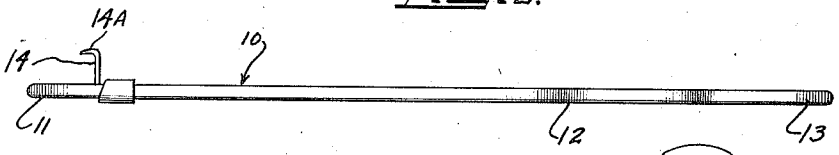


Fig. 4.

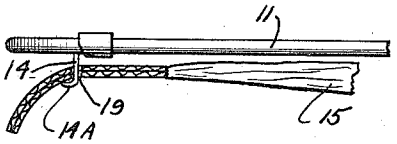


Fig. 3.

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BAG-HOLDING DEVICE

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10 Claims. (Cl. 294—1)

This invention relates to a device for the expressing of juices from a pulp. More particularly the invention pertains to a device for the expressing of fruit juices from pulped fruits through cloth.

An important object of the present invention is to provide an appliance for securely holding and tightly clamping the upper portion of a cloth bag to confine within the bag pulped fruit from which juices may then be expressed by compressing said bag.

Another object of the invention is to provide a device for the expression of fruit juices from fruit pulps comprising a cloth bag and an easily detachable and replaceable holder therefor.

Yet another object of this invention is to provide a device of the nature indicated which may conveniently be held by one hand while compression of the bag is effected by the other hand.

A further object of this invention is to provide a device for the separation of juices from a pulp without burning or staining the hands of the operator.

Other and further objects of the present invention will become apparent to those skilled in the art from the following description and appended drawing.

The above mentioned ends are attained in a device which may be broadly described as comprising an elongated open-framed handle constricted adjacent one end and a rounded loop or eye at said end. Across the open frame of the non-constricted end portion of the handle there may be affixed a depending plate whose terminal portion is bent toward the full end of the handle.

This novel device is hereinbelow described in greater detail with special reference to the drawing, in which:

Figure 1 is a top plan view of a holding device according to this invention.

Figure 2 is a side view of the device illustrated in Figure 1.

Figure 3 is a side elevational view of a cloth bag, a holding device as shown in Figure 1, a potato masher, a colander, and a container, in assembled relationship for the expressing of juices from a pulp contained in said bag.

Figure 4 is a fragmentary side elevational view, with parts broken away, of the handle of the device of Figure 1 together with the upper portion of a cloth bag, illustrating the manner of coaction between the depending bent plate and the bag.

As shown on the drawing:

In Figures 1 and 2 the reference numeral 10 indicates generally a holding device according to this invention. The holder 10 comprises an elongated open-framed handle 11 constricted at 12, and, adjacent thereto, a rounded loop or eye 13. Across the open-framed non-constricted end portion of the handle 11 there is fixedly attached a depending plate 14 whose terminal portion 14A is bent at right angle away from the constricted end portion of the handle 11.

A holding device as described may be made by looping a heavy wire back upon itself into narrow U-shape, constricting the resulting loop completely adjacent its bottom and incompletely at a second and higher point, bending the end portions of the shanks of said U to circularly close the top of said U, and uniting contacting portions of said two shanks by soldering or welding. If desired, the U formed by the wire may be twisted through 180° at a point near its bottom and thereafter incompletely constricted above the point of twisting.

That end portion of the handle 11 beyond the point of constriction 12 is suitably made narrower and longer than the loop 13. The inner surface of this narrow portion may be provided with intermittently projecting points or ridges. The loop 13 is preferably round.

For affixing to the handle 11 the depending plate 14 may be formed with a therewith integral strip 14B which lies flatly across the handle 11 with its ends curled around the frame of said handle. The depending plate 14 projects at right angle from the middle portion of that side of the strip 14B facing the full end of the handle 11 and extends through and beyond the space within the open-framed handle, tapering from an original width preferably equal to said space to a terminal width on the order of a ¼ inch.

The depending plate 14 with its strip 14B may be stamped or otherwise formed from sheet metal, the strip 14B and the terminal portion 14A being bent to project away from each other in parallel planes. The thus formed plate is then assembled with the handle 11 as indicated hereinabove, the ends of the strip 14B being curled around the frame of the handle.

The holding device of this invention is preferably constructed of acid resisting material. It may be fabricated from iron or steel and thereafter tinned.

Our novel holding device is utilized for the expression of fruit juices from fruit pulps in combination with a bag made of cloth adapted to allow said juices to pass therethrough while re-

taining the substance of said pulp, for instance, muslin or other like coarse porous material.

Such a bag is partially filled with fruit pulped by crushing or cooking. A filter aid may be intermixed with said pulp. The top of the bag is gathered in compactly and threaded upwardly through the round loop 13 as far as possible. The free end of the bag is then pulled downwardly through the open-framed handle 11, through the constricted throat 12 and into the adjacent narrow end portion. The bag is then held securely and its top is clamped off to prevent the escape of pulp therethrough.

To render the clamping effect more certain, the bag may be twisted relative to the holder after its top has been inserted therein.

As shown in Figure 3, a bag 15 containing fruit pulp and held by the holder 10 in the manner described hereinabove may be placed in a colander 16 standing in a container 17 and compressed by means of a potato masher 18 or other serviceable instrument, to easily and completely express the juices from said pulp. If desired, the bag may be pulled further into the holder as juice is expressed.

Juices may also be expressed by simply twisting a bag partially filled with pulp held by the present device. Such a twisting may be followed by a compression of the bag effected as described hereinabove.

However utilized, the present device is easily assembled with and detached from a bag and permits the operator to hold the latter securely and tightly with one hand, the other hand being left free to effect the compression of the bag. At the same time the length of the handle and the fact that compression can be effected by the use of a potato masher or like instrument protects the hands of the operator from being burned or strained.

The depending plate 14 offers an additional means for securing a bag onto the holder 10. As shown in Figure 4, if the bag 15 is transversely slotted adjacent its top in two diametrically opposed places 19, the top of the bag may be threaded through the loop 13, pulled through the throat 12, as explained hereinabove, and thereafter pulled back over the plate 14 which is inserted through the slots 19. The bent terminal portion 14A then serves to keep the bag 15 from slipping off the plate 14. Instead of being slotted in one or more places, the top of the bag 15 may also have one or more short looping bands sewn thereto.

The depending plate 14 may also serve to remove crown caps from vacuum sealed jars, the constricted end 12 of the device 10 then serving as a handle.

This invention thus provides a device adapted for holding a bag having its top threaded therethrough not only by offering great frictional resistance against the slipping of the bag therethrough but also by providing means for catching a slot, loop or the like in the top of the bag.

It will, of course, be understood that various details of construction may be varied through a wide range without departing from the principles of this invention and it is, therefore, not the purpose to limit the patent granted hereon otherwise than necessitated by the scope of the appended claims.

We claim as our invention:

1. A device adapted for holding and clamping the top of a bag comprising an elongated open-framed handle portion constricted near one end and a closed loop shorter than said handle portion integrally connected to said end and lying in the plane of said handle portion.

2. A device adapted for use in expressing juices from a pulp comprising an elongated open-framed handle constricted near one end, a rounded loop integrally connected to said end, and a plate depending transversely from the full end portion of said handle at a point spaced from the end thereof, the terminal portion of said plate being bent away from said constricted end portion.

3. A metallic device adapted for holding and clamping off the top of a bag comprising an interiorly open flat handle constricted laterally at a point adjacent but spaced from one end of said handle, that portion of said handle intermediate said point of constriction and said end being narrower than the rest of said handle, together with a closed rounded loop integrally connected to said end.

4. An integral metallic device adapted for holding and clamping off the top of a bag comprising an elongated flat handle interiorly open throughout its length and constricted laterally at a point adjacent but spaced from one end of said handle, that portion of said handle intermediate said point of constriction and said end being narrower than the rest of said handle but wider than said constricted point, together with a closed round flat loop in the plane of said handle connected to said end.

5. A metallic device adapted for holding and clamping off the top of a bag comprising an interiorly open flat handle constricted laterally at a point adjacent but spaced from one end of said handle, that portion of said handle intermediate said point of constriction and said end being narrower than the rest of said handle, together with a rounded loop integrally connected to said end and a depending plate transversely affixed to the wider portion of said handle at a point spaced from the other end thereof.

6. A metallic device adapted for holding and clamping off the top of a bag comprising an elongated flat handle interiorly open throughout its length and constricted laterally at a point adjacent but spaced from one end of said handle, that portion of said handle intermediate said point of constriction and said end being narrower than the rest of said handle but wider than said constricted point, a round flat loop integral with and in the same plane as said handle and continuing said end, together with a metallic strip traversing the wider portion of said handle at a point adjacent to but spaced from the end thereof, the ends of said strip being curled around the edges of said handle, a metallic plate integral with and depending from said strip through and beyond the interior of said handle and having a terminal portion bent away from said loop.

7. A metallic device adapted for holding and clamping off the top of a bag comprising an elongated closed wire loop completely constricted at a point adjacent to but spaced from one end thereof and incompletely constricted at a second point adjacent to but spaced from said first point, the portion of said loop intermediate said two points being narrower than the rest of the loop.

8. A metallic device adapted for holding and clamping off the top of a bag comprising an elongated flat wire loop completely constricted at a point adjacent to but spaced from one end thereof and incompletely constricted at a second point adjacent to but spaced from said first point, to-

gether with a flat member depending transversely from said loop at a point adjacent to but spaced from the other end thereof, said flat member being bent at a point adjacent to but spaced from its end to project away from said constrictions.

9. An integral device adapted for use in expressing juices from a pulp contained in a bag, said device comprising a closed eye through which the top of said bag may be threaded and a handle member interiorly open in the same direction as said eye and constricted adjacent the same to receive and hold in said constricted portion the top of said bag threaded through said eye.

10. A metallic device adapted for use in expressing juices from a pulp contained in a bag having a top adapted to receive a plate therethrough, said device comprising an eye through which the top of said bag may be threaded, a handle member integral with said eye, interiorly open in the same direction as said eye and constricted adjacent the same to receive and hold in said constricted portion a portion of the top of said bag threaded through said hole, and a plate depending transversely from the full end portion of said handle member at a point spaced from the full end thereof and adapted to be received by the top of said bag, the terminal portion of said plate being bent away from said constricted end portion, to prevent the disengagement of the top of said bag from said plate.

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