

March 11, 1930.

T. H. MILLS

1,750,239

COFFEE URN DEVICE

Filed Oct. 16, 1929

Fig. 1.

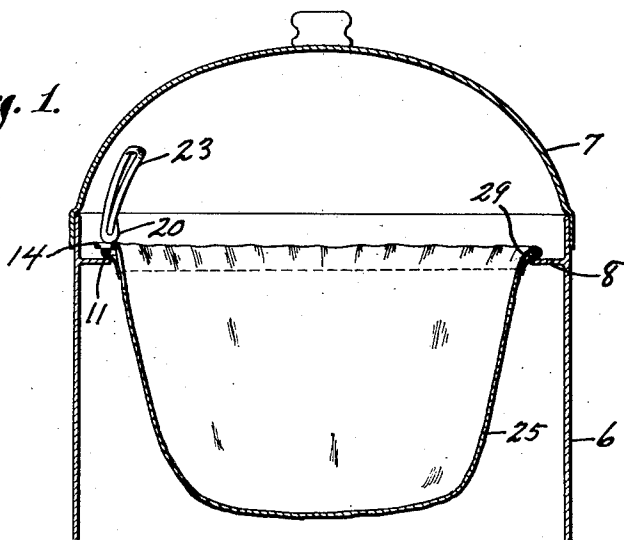


Fig. 2.

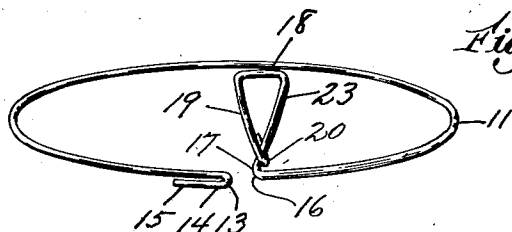


Fig. 3.

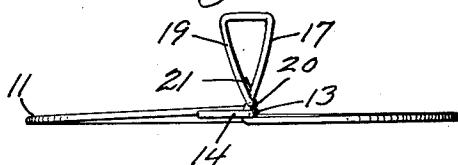
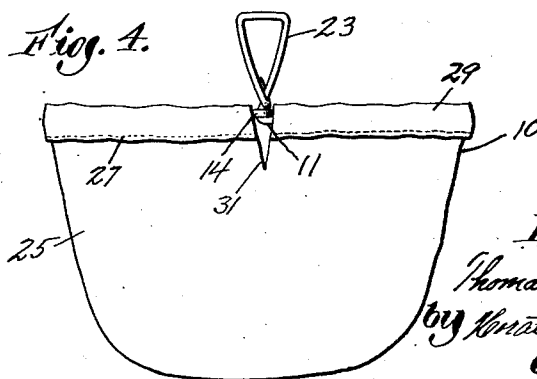


Fig. 4.



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COFFEE-URN DEVICE

Application filed October 18, 1929. Serial No. 400,116.

My invention relates to the strainer member of coffee urns and more particularly to the ring members and the adjacent portions of the bag.

5 The essential objects of my invention are to enable the insertion and removal of the strainer without burning the operator's hand by contact with the urn and at the same time thoroughly concealing the manipulating handle within the urn; to provide a means for rigidly interlocking the ends of the supporting ring without detriment to the facile disengagement of the ends when desired; to embody the ring, handle, and interlocking ends in a single integral structure; enable facile removal or insertion of the ring from and into the bag; and to attain these ends in a simple and inexpensive structure.

To the above ends primarily my invention consists in such parts and in such combinations of parts as fall within the scope of the appended claims.

In the accompanying drawings which form a part of this specification

25 Figure 1 is a vertical central section of a coffee urn and of my strainer device mounted therein, the lower portion of the urn being broken away,

30 Figure 2, a perspective view of the ring or frame showing its ends disengaged,

Figure 3, a front elevation of the same showing the ends interlocked, and

Figure 4, a front elevation of the ring mounted in the bag.

35 Like reference characters indicate like parts throughout the views.

In the drawings 6 represents the body of a coffee urn of any usual construction, 7 the usual detachable cover thereon, and 8 the common internal annular shelf or shoulder integral with the upper portion of the body. It is in conjunction with this or other well known structures for a similar purpose that my strainer device is intended to be used.

45 The percolator or stainer 10 includes a re-

silient curved frame or incomplete ring 11 formed by bending a resilient, somewhat pliable, rod or wire of German silver, Monel metal, or soft steel, or the like. One end of the ring terminates in a reverse bend 13 constituting the loop portion of a hook 14 whose beak 15 is substantially equidistant from the ring throughout the length of the former, and disposed in a horizontal plane. The opposite end of the ring terminates in an acute angular bend 16 formed by a laterally inclined upwardly directed arm 17, integral at its upper end with a horizontal section 18, continuous with a second laterally inclined downwardly directed arm 19 terminating in a vertically inclined hook shaped loop 20 tightly embracing the arm 17 adjacent or a slight distance above the bend 16. The loop 20 terminates in a finger 21 engaging the arm 19. The arms 17 and 19 are also inwardly inclined as they extend upwardly, that is to say they are inclined towards the center of the frame. These two arms together with the section 18 form a handle represented generally by the reference character 23. When the ends of the member 11 are not interengaged they are, because of the stiffness of the material, spaced from each other as shown in Figure 2. To interlock the parts, the ring ends are manually pressed towards and beyond each other and then released. Thereupon the hook 14, because of the peripheral pull of the resilient ring, is forced against the lower end of the arm or post 17 in the acute angular bight or bend 16. The bend 13 of the hook 14 abuts against the lower end of the loop 20.

It is evident that the lateral inclination of the arm 17 tends to maintain the hook 14 in the bend 16. The hook is further prevented from escape by the stop shoulder formed by the loop 20.

A bag 25 of foraminous material has its upper margin folded and its edge fixed by stitches 27 whereby is formed a circular tube

29. The latter is split by a vertical slot 31 extending a slight distance into the body. This slit is of use when it is desired to remove the ring from the bag and vice versa.

5 The ring is engaged with the bag by inserting the hook 14 into one end of the tube 29, and forcing the hook therethrough until the entire ring 11 is enclosed.

10 It will be observed that not only are the ends of the frame or in complete ring easily and firmly interengaged and disengaged, but that the frame and handle are formed with facility and without expense. Furthermore the inclination of the vertical handle to-
15 wards the center of the frame affords ample space between the handle and the wall of the urn to prevent burning of the operator's hand during removal of the frame, and so posi-
20 tions the handle as to be concealed wholly within the urn.

I claim:—

1. In a device of the character described, an incomplete resilient supporting ring, an inwardly inclined vertical handle upon one
25 end of the ring, a horizontally disposed hook upon the other end of the ring slidably engaging the handle, and a foraminous bag provided with an annular tube for the reception of the ring.

30 2. In a device of the character described, an incomplete resilient ring, a laterally inclined upwardly directed arm forming in conjunction with the ring an acute bend, a horizontal section integral with the upper
35 end of the arm, a downwardly directed arm integral with the end of the section opposite the first arm, a hook integral with the other end of the ring disposed in a horizontal plane and engageable with the first arm in the acute
40 bend, and a bag supported by the ring.

3. In a device of the character described, a bag provided upon its upper edge with a peripheral tube and provided with a vertical slit extending through the tube, a resilient
45 incomplete ring insertable into the tube, a handle upon one end of the ring, a shoulder upon the handle above the ring, and a hook upon the other end of the ring adapted to slidably engage the handle and abut against
50 the shoulder.

4. In a device of the character described, an incomplete resilient ring, a laterally and inwardly directed upright arm integral with the ring and forming therewith an acute
55 angular bend, a horizontal section with the upper end of the arm, a downwardly and laterally inclined arm integral with the end of the section opposite the first arm, a loop integral with the lower end of the second
60 arm engaging the first arm slightly above the ring, a hook integral with the other end of the ring engageable with the first arm between the ring and the loop, and a bag provided with an annular vertically split tube
65 for the reception of the ring.

5. In a device of the character described, a compressible incomplete ring, an upwardly directed handle integral with one end of the ring, a horizontal terminal hook integral with the other end of the ring movable trans-
70 versely and beyond the handle when the ring is compressed and detachably engageable with the handle when compression ceases, and a bag provided with an annular tube for the reception of the ring.

In testimony whereof I have affixed my signature.

THOMAS H. MILLS.

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