Jan. 14, 1936. C. ZAFUTA 2,028,098

BEVERAGE DISPENSING DEVICE

Filed May 9, 1934

Fig. 1.

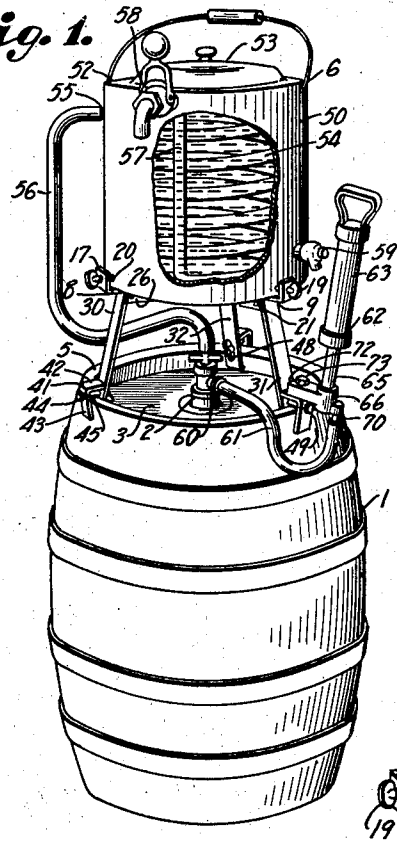


Fig. 2.

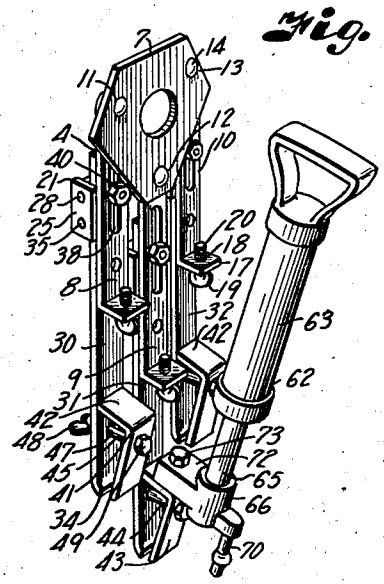


Fig. 3.

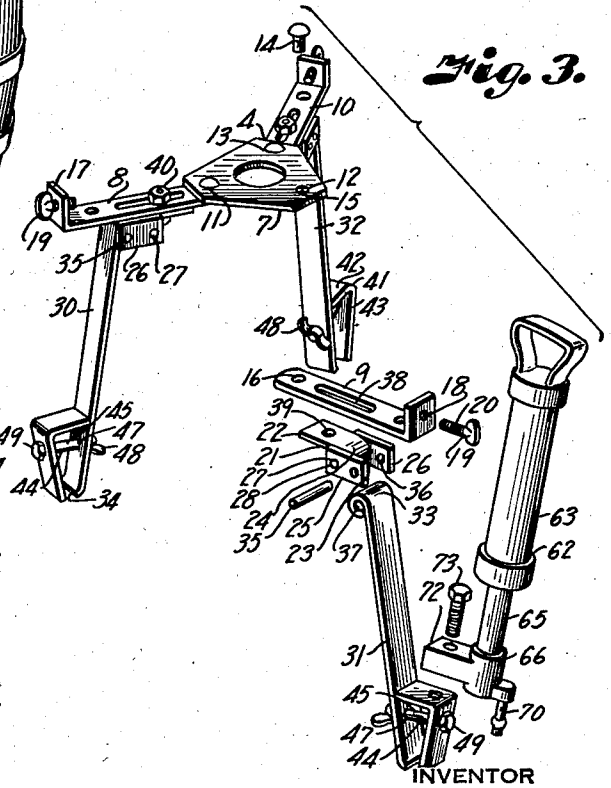
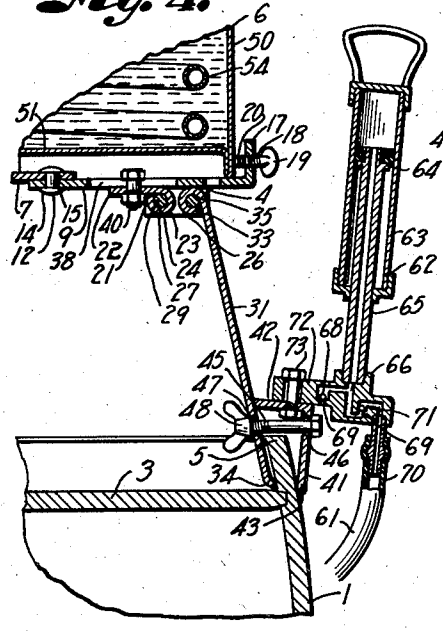


Fig. 4.



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BEVERAGE DISPENSING DEVICE

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10 Claims. (Cl. 225—16)

This invention relates to beverage dispensing devices and more particularly to one of portable character and has for its principal object to provide a simple, inexpensive structure which is readily attached to a barrel containing the beverage and which is adapted to be collapsed for storage and transportation purposes.

In accomplishing these and other objects of the invention, I have provided improved details of structure, the preferred form of which is illustrated in the accompanying drawing, wherein:

Fig. 1 is a perspective view of a dispensing device embodying the features of the present invention and illustrating its attachment to a barrel.

Fig. 2 is a detail perspective view of the cooling coil container stand in collapsed condition.

Fig. 3 is a similar perspective view showing the stand in extended position with one of the legs removed to better illustrate its construction and the method of mounting a pump for creating a pressure by which beverage is moved from the barrel through the dispensing device.

Fig. 4 is an enlarged detail sectional view of a portion of the coil container and barrel, particularly illustrating the pump construction.

Referring more in detail to the drawing:

1 designates a conventional type barrel for containing a beverage such as beer or the like which is drawn off through a conventional draft fitting 2 that is located in the head 3.

Beer and like beverages are usually dispensed from the barrel through a cooling coil that is surrounded with ice or other suitable refrigerant to cool the beverage as it passes therethrough under pressure of air or gas that is injected into the barrel to displace the beverage when a draft valve connected with the coil is opened.

As above pointed out, it is the purpose of the present invention to provide a portable dispensing apparatus of this character which is readily transported and attached to a barrel for use in temporary beverage dispensing stands, at picnics, and like occasions, requiring temporary use of a dispensing apparatus.

In carrying out this object of the invention, I provide a collapsible stand generally designated 4 which is adapted to be attached to the chime 5 of the barrel to support a container 6 carrying the draft coil and refrigerating medium.

The stand 4 includes a substantially triangular shaped plate 7 carrying radially extending arms 8, 9 and 10 that are pivoted to the respective truncated points 11, 12 and 13 of the plate by rivets 14 extending through openings 15 in the plate and through aligning openings 16 in the arms, as shown in Fig. 4 so that two of the arms can be folded in parallel relation with the other arm when the stand is collapsed, as illustrated in Fig. 2.

The outer ends of the arms are bent upwardly to provide lugs 17 having threaded openings 18 in which are mounted thumb screws 19, the thumb screws having threaded shanks 20 adapted to engage against the outer periphery of the container 6 when the bottom of the container is seated upon the arms as illustrated in Figs. 1 and 4.

Secured to the arms 8, 9 and 10 are hinge elements 21 including clips 22 having ends 23 curled back upon the body portion of the clip to form a tubular head 24 to mount a pair of hinge plates 25 and 26. The hinge plates 25 and 26 are attached to the ends of the tubular head by a rivet 27 extended through openings 28 in the plates and through the opening 29 formed by the head. The plates 25 and 26 have projecting ends to engage opposite sides of a similar head that is formed on legs 30, 31 and 32. The legs are constructed of flat bar metal and have their upper ends curled to form heads 33 and have their lower ends bent outwardly, as at 34, to form jaws adapted to engage the inner periphery of the barrel chime as shown in Fig. 4. The heads 33 of the legs are secured between the projecting ends of the plates by pins 35 extending through the openings 36 in the plates and through the opening 37 formed in the heads 33.

The pins 35, however, are enough to provide free swinging movement of the legs between the plates so that when the stand is moved to collapsed condition, as shown in Fig. 2, the legs are adapted to fold flatly against the under side of the arms to which they are attached.

In order to adjust the legs to the chime of various diameter barrels, the arms 8, 9 and 10 are provided with elongated slots 38 aligning with openings 39 in the hinge elements and through which bolts 40 are projected to secure the hinge elements to the arms. It is thus apparent that the legs can be variably spaced apart by sliding the hinge elements on the arms so that the jaw ends thereof will engage in the angle formed by the inner periphery of the chime and the head 3 of the barrel.

In order to clamp the stand in position on the barrel to prevent its displacement, each leg carries an angle shaped clip 41 having one flange 42 adapted to engage against its respective leg and a depending flange 43 extending downwardly in cooperating relation with the jaw 34 to engage

the barrel chime, the clips being secured to the legs by bolts 44 having shanks 45 extending through openings 46 in the clips and through openings 47 in the legs at points directly above the chime of the barrel. The threaded ends of the shanks are provided with wing nuts 48 engaging the inner faces of the legs and which cooperate with the bolt heads 49 that engage the outer faces of the clips to draw the jaws 34 and the depending flanges 42 into clamped relation with the opposite sides of the barrel chime.

The container 6 preferably includes a cylindrical wall 50 having a closed bottom 51 and an open top 52 that is covered by a suitable lid 53. Supported within the container is a cylindrical coil of pipe 54 having its upper end projecting through the wall of the container, as at 55, for connection by a flexible hose 56 with the draft fitting 2. The lower end of the coil terminates in an upwardly extending terminal 57 that is connected with a draft valve 58 wherethrough the contents of the barrel are drawn after passing through the cooling coil.

In order to cool the liquid flowing through the coil when the draft valve 58 is open, the container is packed with ice or other refrigerant. When ice is used, the container is provided with a drain valve 59 that is located near the bottom thereof as shown in Fig. 1.

In order to apply pressure to the contents of the barrel, the air connection 60 for the fitting 2 is provided with a hose connection 61 leading to an air pump 62 as now to be described.

The air pump is best illustrated in Fig. 4 and includes an outer reciprocating cylinder 63 that is operably over a piston 64 carried at the upper end of a pipe section 65. The lower end of the pipe 65 is secured in a base fitting 66 having an air inlet port 67 that is controlled by a ball valve 68 to admit air into the cylinder on the upstroke thereof. On the down-stroke, the air is ejected through the pipe 65 and through an outlet port 69 to a nipple 70 that connects with the hose 61, the outlet port being controlled by a ball valve 71 similar to the ball valve 68 previously described.

In order to support the pump so that it is a unit part of the dispensing apparatus, the base 66 carries an arm 72 that is bolted to the inturned flange of one of the angle clips 41 previously described by a bolt 73.

In mounting a device constructed as described from the folded position shown in Fig. 2, the arms 8, 9 and 10 are moved outwardly on their pivotal connection with the plate 7 until they extend radially therefrom. The legs 30, 31 and 32 are then moved in position so that the lower ends thereof rest upon the head of the barrel at the inner periphery of the barrel chime, this being accomplished by adjusting the hinge elements 21 relatively to the arms 8, 9 and 10.

The clips 41 are then adjusted by manipulating the wing nuts 48 so that they are moved in clamping engagement with the barrel chime to secure the stand in position.

The container carrying the cooling coil is then placed on the stand and the thumb screws 19 are tightened against the bottom thereof to secure it in position.

The hoses 56 and 61 are then connected to the draft fitting 2 and pressure is produced in the barrel to displace the liquid through the hose 56 by actuating the pump 62. Upon opening the draft valve 58, the fluid will flow therethrough filling the cooling coil. Ice or other refrigerating material is then packed about the cooling coil and the device is ready for use.

To disassemble the device, the hose connections 56 and 62 are removed and the thumb screws 19 loosened to permit removal of the container. The wing nuts 48 are then loosened to allow removal of the stand. The legs are then folded so that they extend in the plane of the arms and the hinge elements are slid retractively to the inner ends of their slots. Two of the arms are then moved to parallel relation with the leg carrying the pump to complete the collapse of the stand, as shown in Fig. 2.

The container and stand then require a minimum amount of storage space and may be conveniently stowed away in a motor vehicle without being in the way of the occupants.

What I claim and desire to secure by Letters Patent is:

1. In a device of the character described, a container, a stand for the container including a plate, arms pivotally connected with the plate, means for clamping the arms to the container, legs carried by the arms, and clamping means on the legs adapted to engage the chime of a barrel to support the container.

2. In a device of the character described, a container, a stand for the container including a plate, arms pivotally connected with the plate, means for clamping the arms to the container, legs carried by the arms, clamping means on the legs adapted to engage the chime of a barrel to support the container, and a pump supported by one of the legs.

3. In a device of the character described, a stand including a plate, arms pivotally connected with the plate, clamping means on the arms, legs carried by the arms, and clamping means on the legs adapted to engage the chime of a barrel to support a container.

4. In a device of the character described, a container, a stand for the container including a plate, arms pivotally connected with the plate, means for clamping the arms to the container, hinge elements adjustably secured to the arms, legs carried by the hinge elements, and clamping means on the legs adapted to engage the chime of a barrel to support the container.

5. In a device of the character described, a container, a stand for the container including a plate, arms pivotally connected with the plate, means for clamping the arms to the container, legs carried by the arms, clamping means on the legs adapted to engage the chime of a barrel to support the container, and a pump carried by the clamping means on one of said legs.

6. In combination with a container and a barrel, a stand for the container including a plurality of radially extending arms engaging the container, legs connected with the arms, and clamping means on the legs for connecting the legs to a chime of a barrel.

7. In a device of the character described, a container, a stand for the container including a plate, slotted arms pivotally connected with the plate, hinge elements slidably secured in said slots in the arms, means for clamping the arms to the container, legs carried by the hinge elements, and clamping means on the legs adapted to engage the chime of a barrel to support the container.

8. In a device of the character described, a container, a stand for the container including a plate, slotted arms pivotally connected with the

plate, hinge elements slidably secured in said slots, means for clamping the arms to the container, legs carried by the hinge elements and having jaws on their lower ends, and angle clips on the legs cooperating with said jaws to engage the chime of a barrel to support the container.

9. In a device of the character described, a container, a stand for the container including a plate, slotted arms pivotally connected with the plate, hinge elements slidably secured in said slots, means for clamping the arms to the container, legs carried by the hinge elements and having jaws on their lower ends, angle clips on the legs cooperating with said jaws to engage the chime of a barrel to support the container, and a pump carried on one of said clips.

10. In combination with a container and a barrel, a stand for the container including a plate, clamp members connected with the plate for engaging a bottom of the container, legs depending below the plate for supporting the container above and in spaced relation to the top of the barrel, and clamping means on the lower ends of the legs adapted to engage the chime of the barrel.

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