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H. E. CLARK

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VALVE ATTACHMENT FOR LIQUID CONTAINERS

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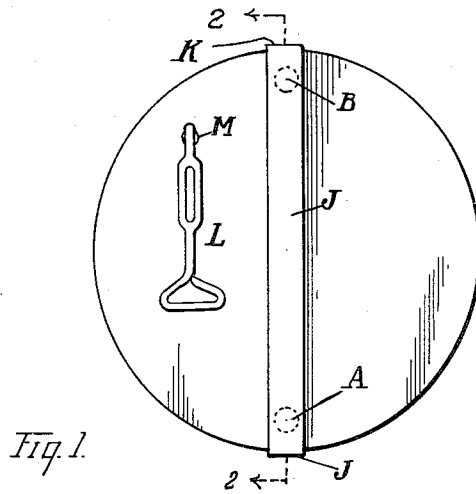


Fig. 1.

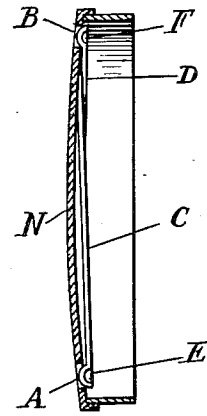


Fig. 2.

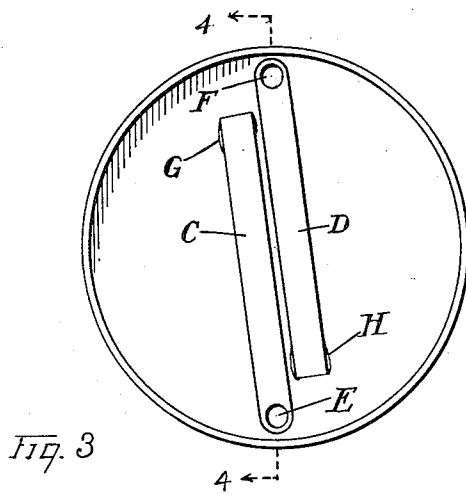


Fig. 3.

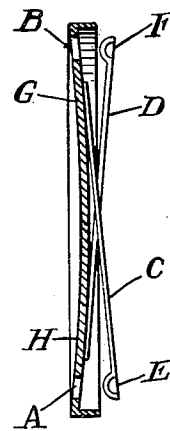


Fig. 4.

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VALVE ATTACHMENT FOR LIQUID
CONTAINERS

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2 Claims. (Cl. 220—24)

My invention relates to containers such as cans for evaporated milk now in use, and my objects are, to provide a can with valves whereby one may open and close the pouring and vent holes without the need of first punching, and then later picking out dried milk from the holes.

In the following description of my invention reference is had to the accompanying drawing in which: Figure 1, shows the top end of such a can; Fig. 2, a section through 2—2 of Fig. 1; Fig. 3, an inside view of the top; and Fig. 4, a section through 4—4 of Fig. 3.

The structure of the present commercial can is not changed except that the top is made convex so that it may be pressed inward and allowed to spring back and that two holes A and B are punched therein: The two valve flaps C and D are soldered to the inner side of the top at G and H, these flaps are provided with nibs E and F which are pressed into the holes by the spring tension of the flap strip while the top is in convex position. This forms a closure only, but to provide a seal the key strip I, with turndown ends J and K, is soldered over the holes and a key L is soldered to the top at M. After the cans are made according to the above description they are filled from the other end by the usual factory method.

When it is desired to use the contents the key is plucked from its fastening and the slot is placed over one of the bent ends of the sealing strip at J or K and the strip is rolled off in the usual key strip manner, this will expose the valve closed holes as shown in Fig. 2, then by holding the can in pouring position and pressing the convex top with the thumb at N, both valves will open as the top is now concave and pressing down on the valve arms as in Fig. 4; by holding this position until the desired quantity is poured, then releasing the pressure the top will spring out and the valve nibs will again close the openings.

Having thus described my invention, what I claim as new and desire to secure by Letters Patent is:

1. The combination with a liquid container, of a convex container top having pouring and vent holes therein, spring valve flaps fixed to the inside of said top and adapted to close the holes while said top is in a convex position and to open the holes by pressure upon the convex surface.
2. The combination with a liquid container, of a convex container top having pouring and vent holes therein, spring valves for closing said holes while the top is in a convex position and for opening said holes by pressing the convex top, and a key operated sealing strip soldered across said holes.

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