Dec. 22, 1925. 1,566,596

J. C. HARDESTY

SIRUP PERCOLATOR

Filed July 10, 1925

Fig. 1.

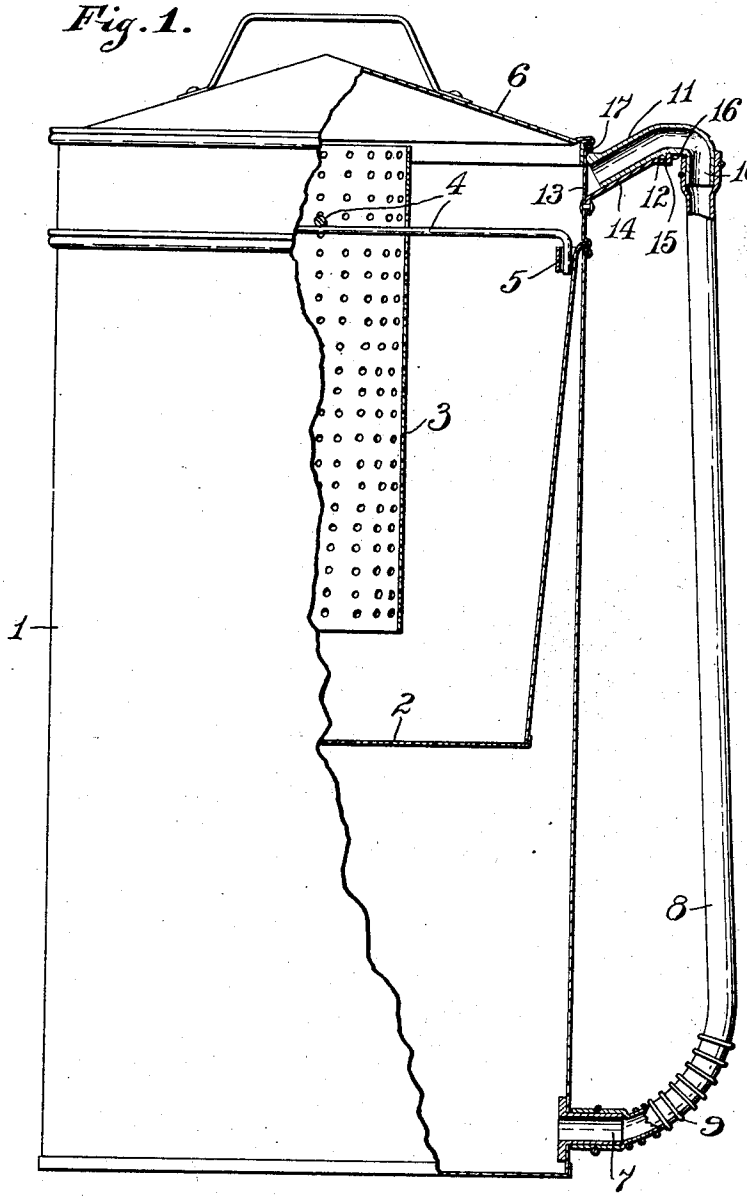


Fig. 2.

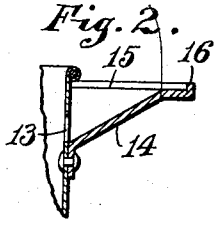


Fig. 3.

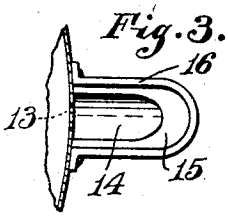


Fig. 4.

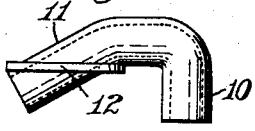
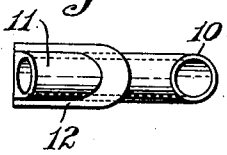


Fig. 5.



INVENTOR.
James C. Hardesty,
BY
Hood & Hahn.
ATTORNEYS

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UNITED STATES PATENT OFFICE.

JAMES C. HARDESTY, OF INDIANAPOLIS, INDIANA.

SIRUP PERCOLATOR.

Application filed July 10, 1925. Serial No. 42,857.

To all whom it may concern:

Be it known that I, JAMES C. HARDESTY, a citizen of the United States, residing at Indianapolis, in the county of Marion and State of Indiana, have invented a new and useful Sirup Percolator, of which the following is a specification.

My invention relates to improvements in means for draining sirup and the like from the receptacles in which they are contained and particularly from sirup percolators.

One of the objections to the present commercial type of drain off valve for sirup receptacles and percolators is that due to the sticky nature of the sirup, particularly where the same is made from cane sugar, there is a certain amount of sirup adheres to the nozzle or valve which, when exposed to the air, dries and hardens and tends to "freeze" the valve in closed position preventing ready opening of the same.

One of the objects of my present invention is to provide a drain off valve or nozzle which will eliminate the above undesirable features in the present commercial type of valve.

For the purpose of disclosing my invention I have illustrated one embodiment thereof in the accompanying drawings in which—

Fig. 1 is a side elevation partly in section of a percolator with my improved form of valve applied;

Fig. 2 is a detail section of the nozzle seat;

Fig. 3 is a plan view of the nozzle seat;

Fig. 4 is a side elevation of the nozzle, and

Fig. 5 is a plan view thereof.

In the embodiment illustrated I have shown a sirup percolator which comprises a receptacle 1 provided with a foraminous sugar container 2 and arranged within the sugar container 2 is a foraminous water container 3 supported on suitable cross rods 4 taking into, at their ends, interior sockets 5. The receptacle is closed by the usual cover 6.

In operation of this type of percolator the sugar receptacle is lined with a fabric such for instance as cheese cloth and the water receptacle 3 is covered with a similar material. The sugar receptacle 2 is then filled with sugar and the water receptacle filled with water. As a result the water percolates through the sugar and the resulting sirup drips into the bottom of the receptacle 1.

For the purpose of drawing the sirup thus formed off from the receptacle as occasion demands, I provide a bottom opening in the receptacle through which projects a flanged nipple 7 which has connected thereto a flexible conduit or hose 8. At the jointure this hose is surrounded by a coiled spring 9 to prevent the same from kinking. The hose at its opposite end is provided with a hook shaped nozzle having a straight nipple portion 10 over which the hose 8 may be slipped and a hooked portion 11. This hooked portion has obliquely formed thereon an annular flange 12.

At the upper end of the receptacle 1 there is provided a drip opening 13 which lies adjacent to a trough having an inclined bottom 14 and provided on its upper open face with a shoulder 15 surrounded by an annular lip 16. This trough forms a support for the nozzle and when the nozzle is placed in position the inclined portion 11 lies along the inclined bottom 14 of the trough. The flange 12 seats on the shoulder 15 and is surrounded by the lip 16. By this arrangement the nozzle, after use, is supported in a sufficiently elevated position to prevent the contents of the receptacle 1 from draining therethrough and any drippings in the nozzle will drain back into the receptacle through the opening 13. Furthermore, the flange 12 effectually closes the end of the nozzle to the atmosphere and at the same time the end of the nozzle on which drippings may accumulate is subjected to the moisture of the receptacle 1 and any sirup adhering thereto is kept in a softened condition.

While the weight of the nozzle and its hose is generally sufficient to hold the nozzle in position I find that a more effectual seal is provided by forming the hose 8 of pure rubber so that the same will have a certain amount of elasticity and making the hose of sufficient length so that when the nozzle is seated the hose is placed under a slight tension. When the nozzle is so weighted the forward end thereof engages

under the annular bead 17 at the top of the receptacle and thereby assists in maintaining the nozzle in its seated position.

I claim as my invention:

1. The combination with an open topped sirup receptacle having a cover therefor and a draw off opening, of a nozzle seat secured to the side wall of said receptacle at the upper end adjacent a drip opening in said side wall of said receptacle, a draw off conduit connected with said draw off opening and a hook shaped nozzle at the end of said conduit arranged when in inoperative position to engage said seat and close said drip opening to the atmosphere.

2. The combination with an open topped sirup receptacle having a cover therefor and a draw off opening near its lower end and a drip opening in the side wall of the receptacle at its top, of a conduit connected to said draw off opening, a hook shaped nozzle at the end of said conduit, a seat on the side wall of and at the upper end of said receptacle for supporting said nozzle when in inoperative position and in communication with the drip opening, said seat and nozzle co-operating to seal the opening to the atmosphere.

3. The combination with a nozzle seat comprising a trough having an annular seat at the mouth thereof, of a hook shaped nozzle arranged to lie in said trough and provided with a closure flange seating upon said annular seat of the trough and co-operating with the nozzle to close the mouth of the trough.

4. The combination with a nozzle seat comprising a trough having an annular shoulder at the mouth thereof and a peripheral lip on said shoulder, of a hooked shaped nozzle arranged to lie in said trough and provided with a closure flange seating upon said shoulder and within said lip.

In witness whereof I, JAMES C. HARDESTY, have hereunto set my hand at Indianapolis, Indiana, July, A. D. one thousand nine hundred and twenty-five.

JAMES C. HARDESTY.