V. D. PFIRMAN.

PERCOLATOR.

APPLICATION FILED APR. 3, 1916.

1,257,110.

Patented Feb. 19, 1918.

FIG. 1.

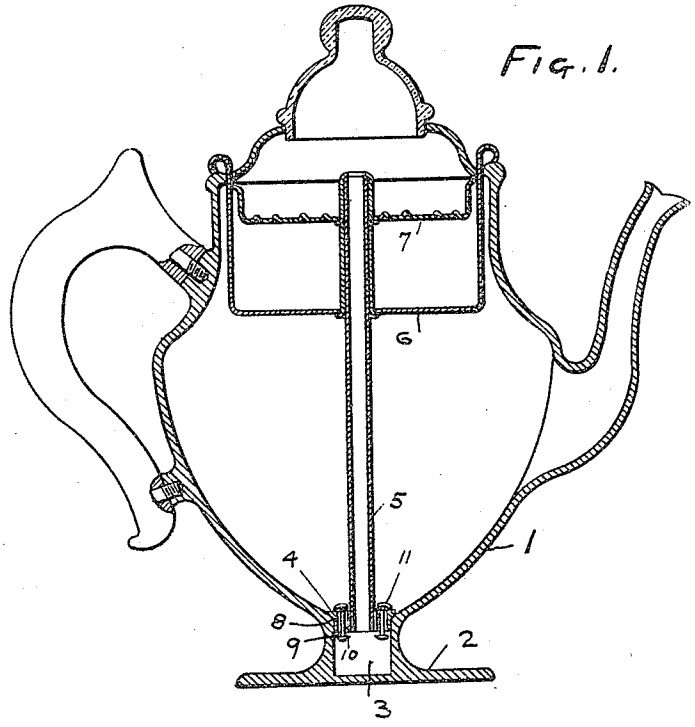


FIG. 3.

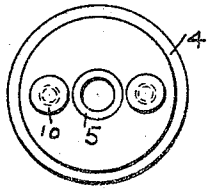


FIG. 2.

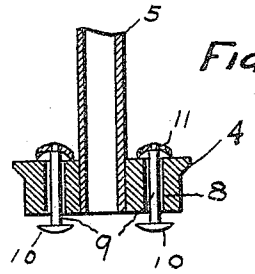
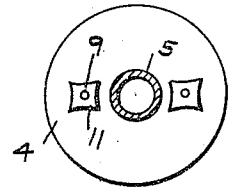


FIG. 4.



Inventor

Valentine D. Pfirman

By

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UNITED STATES PATENT OFFICE.

VALENTINE D. PFIRMAN, OF ERIE, PENNSYLVANIA, ASSIGNOR TO THE GRISWOLD MANUFACTURING COMPANY, OF ERIE, PENNSYLVANIA, A CORPORATION OF PENNSYLVANIA.

PERCOLATOR.

1,257,110. Specification of Letters Patent. **Patented Feb. 19, 1918.**

Application filed April 3, 1916. Serial No. 88,428.

To all whom it may concern:

Be it known that I, VALENTINE D. PFIRMAN, a citizen of the United States, residing at Erie, in the county of Erie and State of Pennsylvania, have invented new and useful Improvements in Percolators, of which the following is a specification.

This invention relates to percolators and consists in certain improvements in the construction thereof as will be hereinafter fully described and pointed out in the claims.

The invention is illustrated in the accompanying drawings as follows:—

Figure 1 shows a central vertical section through the percolator.

Fig. 2 an enlarged section of the flash chamber cover.

Fig. 3 a bottom view of the flash chamber cover.

Fig. 4 a top view of said cover.

1 marks the receptacle body, 2 the base, 3 the flash chamber which is formed in the bottom of the receptacle, 4 the flash chamber cover, 5 the elevating tube, 6 the material pocket which is supported on the edges of the top of the percolator, 7 a strainer supported by the tube. So far as described this is the common form of percolator.

The cover 4 has the perforations 8. A pin 9 extends loosely through the perforations, the pin being provided with a head 10 at the bottom and the head 11 squared and dished at the top. The headed pins are free to slide up and down in the perforations and to maintain an opening through the perforations. When the head 10 is seated against the bottom of the cover it closes the opening. When the head 11 is in engagement with the top of the cover it maintains the opening, the squared faces being by reason of its concave shape lifted away from the face of the cover, the contact being only at the corners.

In operation the pins normally assume a position with the heads 10 out of contact with the bottom of the cover. Liquid passes under the head 11 and through the opening 8 into the flash chamber. The steam flashes in the flash chamber and the upward movement acting on the head 10 forces the heads upwardly closing the opening 8. The liquid in steam then passes up the tube 5 and exhausts itself. This relieves the pressure below the head 10 and the pin drops allowing the entrance of a new supply.

What I claim as new is:—

1. In a percolator, the combination of a receptacle having a flash chamber in the bottom thereof; a removable cover for the chamber having perforations forming a means of communication from the receptacle to the chamber; a pin extending through the cover having a supporting head above the cover and a valve head below the cover, the valve head being adapted to seat and close the perforation through the cover and the length of the pin being such as to support the valve head out of contact with the cover.

2. In a percolator, the combination of a receptacle having a flash chamber in the bottom thereof; a removable cover for the chamber having a perforation forming means of communication from the receptacle to the chamber; a pin extending loosely through the perforation and maintaining an opening therethrough; a dished squared head on the pin above the cover adapted to support the valve but maintaining a free circulation between the head and the cover; and a valve head on the pin below the cover.

In testimony whereof I have hereunto set my hand.

VALENTINE D. PFIRMAN.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."