

(No Model.)

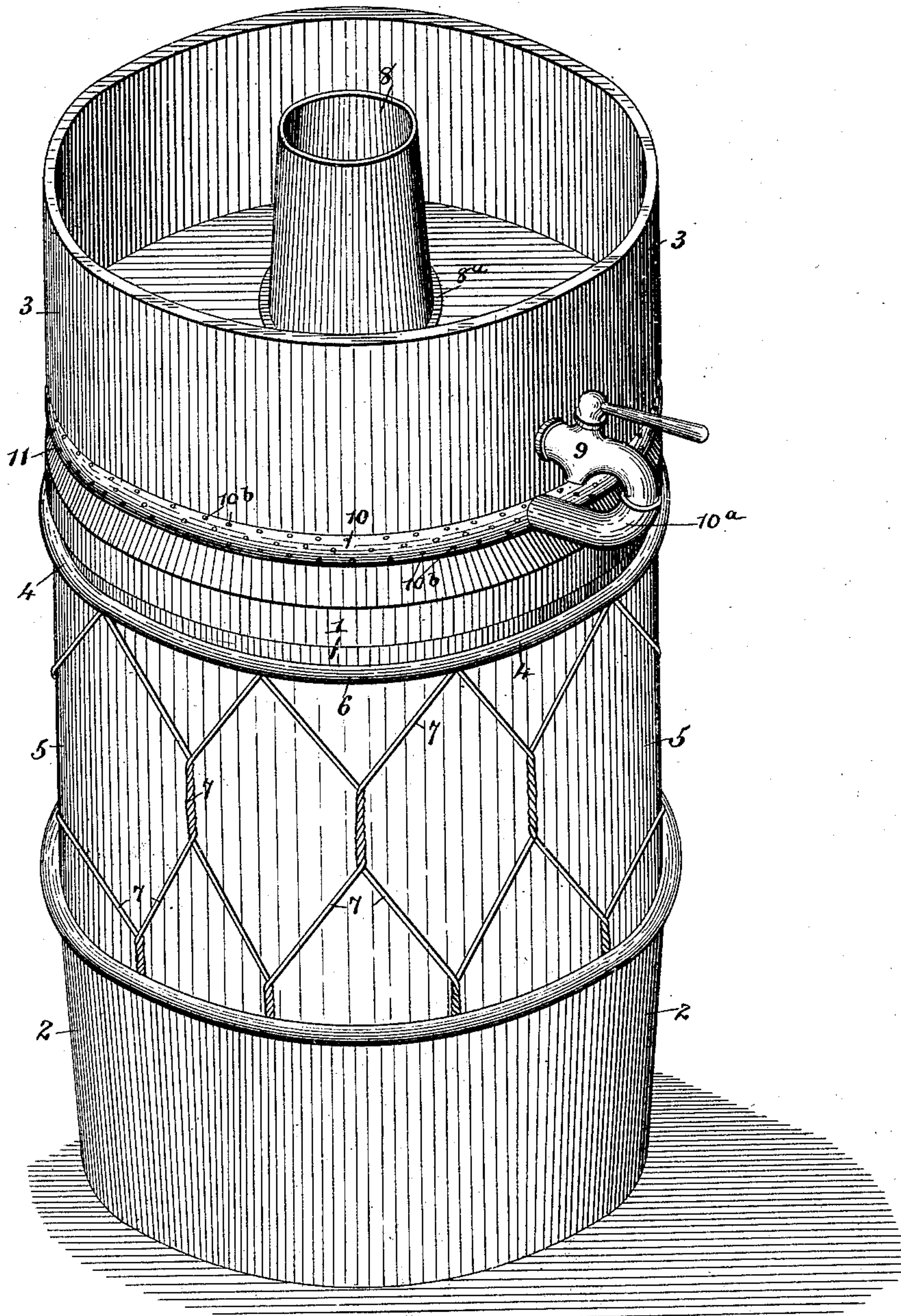
2 Sheets—Sheet 1.

A. T. BEACHAM.
WATER COOLER.

No. 445,667.

Patented Feb. 3, 1891.

FIG. 1.



Witnesses

Inventor

Jas. K. McLathran
Geo. L. Wheelock

By his Attorneys,

Alexander T. Beacham

C. A. Snow & Co.

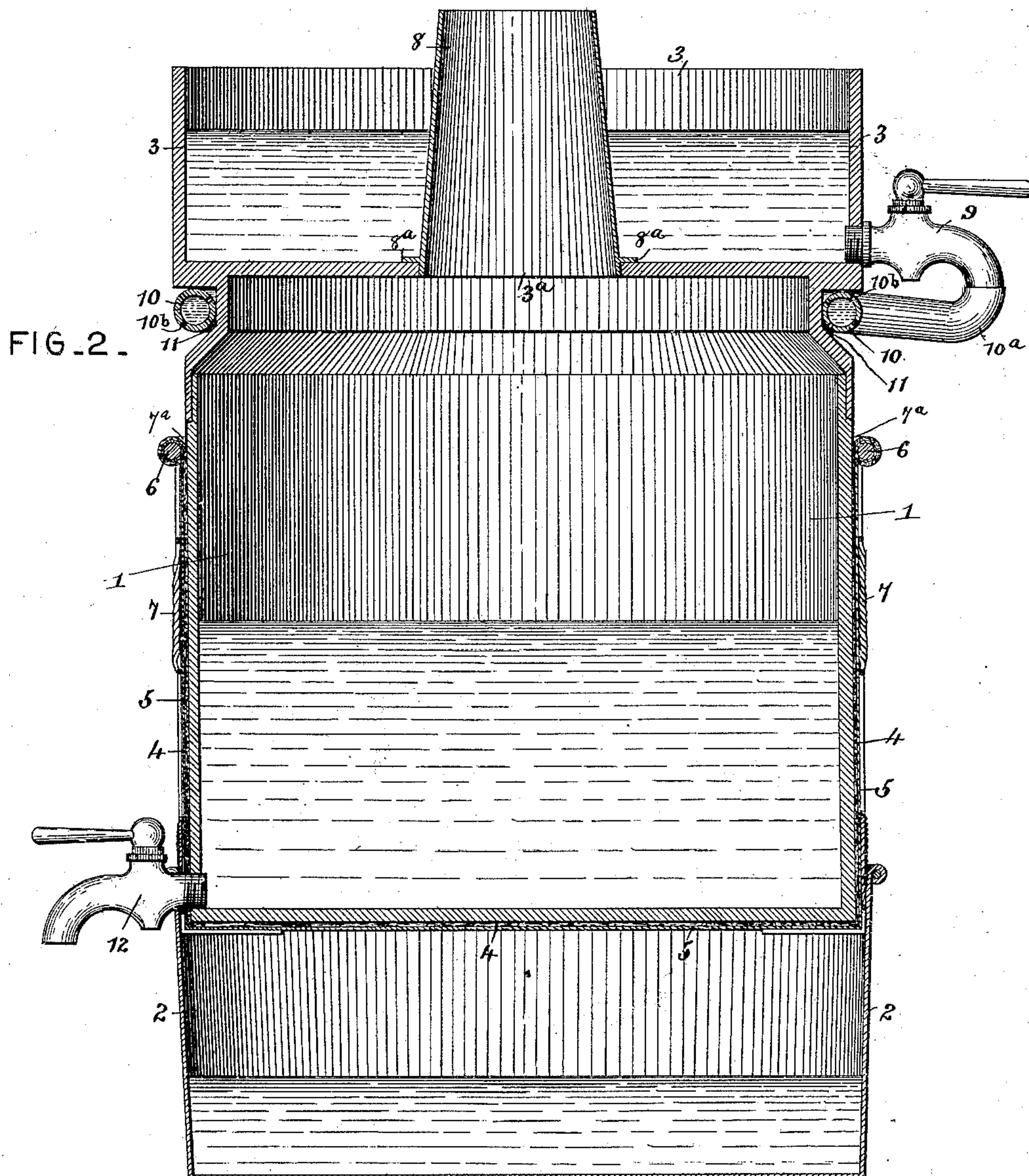
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UNITED STATES PATENT OFFICE.

ALEXANDER THACHER BEACHAM, OF LAREDO, TEXAS.

WATER-COOLER.

SPECIFICATION forming part of Letters Patent No. 445,667, dated February 3, 1891.

Application filed October 8, 1890. Serial No. 367,443. (No model.)

To all whom it may concern:

Be it known that I, ALEXANDER THACHER BEACHAM, a citizen of the United States, residing at Laredo, in the county of Webb and State of Texas, have invented a new and useful Water-Cooler, of which the following is a specification.

The invention relates to improvements in water-coolers.

10 The object of the present invention is to provide a simple and inexpensive water-cooler in which the drinking-water will be cooled and maintained at a low temperature by evaporation.

15 The invention consists in the construction and novel combination and arrangement of parts hereinafter fully described, illustrated in the accompanying drawings, and pointed out in the claims hereto appended.

20 In the drawings, Figure 1 is a perspective view of a water-cooler constructed in accordance with this invention. Fig. 2 is a central longitudinal sectional view of the same.

Referring to the accompanying drawings, 1 25 designates a cooler or reservoir, preferably constructed of earthenware and arranged in a pan or basin 2, which supports the cooler body or reservoir, and the latter is closed at its top by a supplemental reservoir or tank 3, which is also preferably constructed of material similar to the cooler body or reservoir 1.

30 The reservoir or cooler body 1, which contains drinking-water, has its outer surface covered by a fabric, preferably flannel, which is double or otherwise constructed to form an inner covering 4 and an outer covering 5. The upper edges of the fabric are secured around the bead-ring 6 and is arranged a short distance below the upper edges of the cooler-body, and is supported by a reticulated frame-work 7, of wire, which also retains the fabric in position and at the same time is ornamental, said ring providing between its upper face and body 1 a groove 7^a, 40 in which water drips to keep the fabric moist after being once soaked and by which water is prevented running outside the outer fabric 5.

50 The supplemental reservoir or tank 3, which constitutes the lid or cover of the body 1, is provided with a depending flange which fits over the upper edge of said body and directs

water into the annular groove 7^a, and the said supplemental reservoir or tank has a central opening 3^a, in which is placed the 55 lower end of a tapering tube or escape-pipe 8, which allows the heat given off by the water to pass from the cooler, and is provided near its lower end with a horizontally-arranged annular flange 8^a, which rests upon the bottom 60 of the supplemental tank or reservoir 3 around the central opening thereof.

The flow of water from the supplemental reservoir or tank 3 is controlled by a spigot 9, which communicates with an imperforate 65 projection-tube 10^a, extending horizontally from an annular tube 10, which is arranged in an annular groove 11, formed by the depending flange of the supplemental reservoir or tank 3, and the said annular tube 10 or 70 ring is provided with a series of perforations 10^b, to which water escapes and drips down the depending flange of the supplemental reservoir or tank into the annular groove or recess 7^a, formed by the bead-ring 6, as before 75 described, whereby the inner fabric, after being once thoroughly soaked, is maintained continually moist. The inner fabric 4 is first thoroughly soaked in water, and the dripping of water from the perforated tubular ring 10 80 keeps the said fabric 4 wet and the outer fabric 5 prevents the water forcing through. The evaporation of the water of the inner fabric produces cold and lowers the temperature of the water within the cooler-body, and 85 any heat which may accumulate at the top of the cooler passes off through the tapering escape tube or pipe 8, which greatly facilitates the lowering of the water. The water which drips from the fabric is caught in the pan or 90 basin 2, and the latter may be emptied from time to time and the water used over again or thrown away. The fabric covers the bottom of the body 1 as well as the sides, and while it prevents the water forcing through at the 95 sides the outer covering 5 will readily allow the water to soak through at the bottom and drop into the pan or basin 2. Water is drawn from the cooler-body or reservoir 1 by the faucet 12.

100 It will be readily seen that the cooler is simple and inexpensive in construction, and is capable of maintaining water at its sufficiently low temperature for drinking pur-

poses without necessitating the use of ice or freezing-mixtures.

From the foregoing description and the accompanying drawings the construction, operation, and advantages of the invention will readily be understood.

What I claim is—

1. In a water-cooler, the combination of the body or reservoir, a double covering of fabric, means for retaining the covering in place, and the supplemental reservoir arranged above the body or reservoir 1 and forming the cover of the same, and provided with a perforated annular distributing-tube extending around it to supply the said covering with moisture, substantially as described.

2. In a water-cooler, the combination of the reservoir or body 1, a covering of fabric arranged on the outer face of the reservoir or body 1, and the wire frame-work holding the fabric in position and provided at its upper edge with a ring, around which the upper edges of the fabric are secured, substantially as described.

3. In a water-cooler, the combination of the body or reservoir 1, having its outer face covered with fabric, a supplemental reservoir forming a cover for the body or reservoir 1, and a perforated tubular ring communicating with the supplemental reservoir and arranged above the fabric covering of the body or reservoir 1 for keeping the same moist, substantially as described.

4. In a water-cooler, the combination of the body 1, a supplemental reservoir arranged above the body 1 and forming a cover and provided with a spigot 9, and the perforated tubular ring arranged around the supplemental reservoir and provided with a horizontally-projecting tube 10^a, communicating with the mouth of the spigot 9, substantially as described.

5. In a water-cooler, the combination of the body 1, the supplemental reservoir arranged above the body and provided with a depending flange and forming a cover and having an annular groove 11, the perforated tubular ring arranged in the annular groove and provided with a horizontally-projecting tube 10^a,

and the spigot 9, having its mouth communicating with the outer end of the tube, substantially as described.

6. In a water-cooler, the combination of the body having its outer surface covered with fabric, the supplemental reservoir arranged above the body and forming a cover and having a central opening, the tube or escape-pipe 8, having its lower end arranged in the central opening, and means for keeping the fabric wet, substantially as described.

7. In a water-cooler, the combination of the body 1, the pan 2, arranged beneath the body and supporting the same and adapted to receive water dripping therefrom, the fabric covering arranged upon the outer surface of the body 1, the wire frame-work maintaining the fabric in position, the supplemental reservoir 3, forming a cover and provided with a central opening, the escape-pipe 8, having its lower end arranged in the opening, and the tubular ring communicating with the supplemental reservoir and arranged above the fabric covering, substantially as described.

8. In a water-cooler, the combination of the basin or pan 2, the body 1, arranged in the basin or pan and supported thereby, the fabric covering arranged on the outer surface of the sides and bottom of the body and provided with inner and outer portions 4 and 5, the wire frame-work extending over the outer face of the body and maintaining the fabric thereon and extending beneath the bottom of the body and securing the fabric thereto, the supplemental reservoir forming a cover and provided with a central opening, the escape-pipe 8, having its lower end arranged in the central opening, and perforated tubular ring communicating with the supplemental reservoir and arranged above the fabric, substantially as described.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in presence of two witnesses.

ALEXANDER THACHER BEACHAM.

Witnesses:

WILLIAM L. SHARKEY,
S. T. FOSTER.