

W. S. COBB.  
WATER COOLER.

No. 103,718.

Patented May 31, 1870.

FIG. 1.

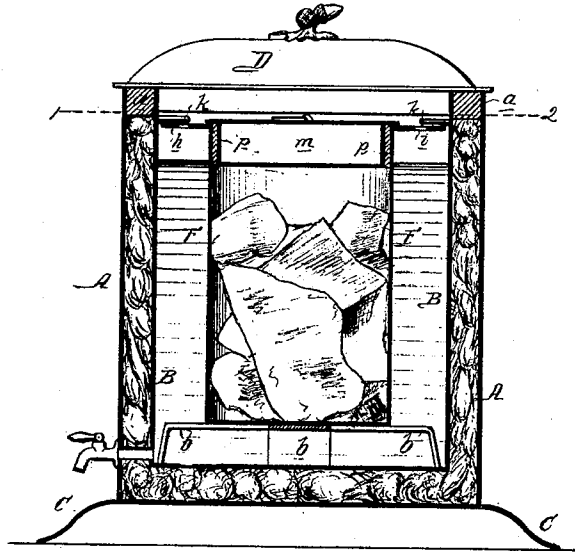
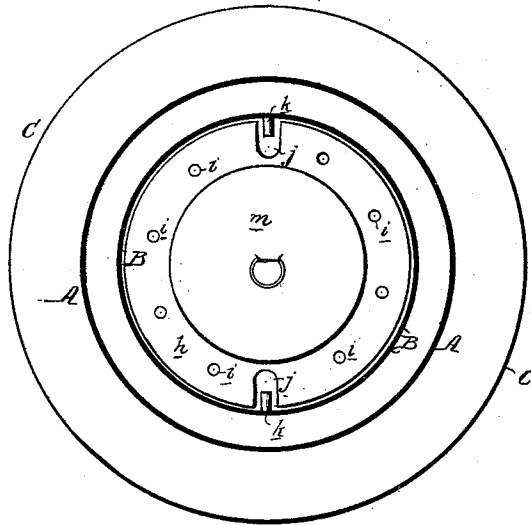


FIG. 2.



WITNESSES

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*John Parker*

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*By his atty*  
*Thomas A. Mason*

# United States Patent Office.

WILLIAM STOKES COBB, OF PHILADELPHIA, PENNSYLVANIA.

Letters Patent No. 103,718, dated May 31, 1870.

## IMPROVED WATER-COOLER.

The Schedule referred to in these Letters Patent and making part of the same.

I, WILLIAM STOKES COBB, of Philadelphia, county of Philadelphia, State of Pennsylvania, have invented an Improved Water-Cooler, of which the following is a specification.

### *Nature and Object of the Invention.*

My invention consists mainly of a removable air and water-tight ice-vessel, adapted to the interior of a water-cooler, as fully described hereafter, the arrangement being such as to effect considerable economy in the quantity of ice required, and also such as to enable ready access to be had to the interior of the cooler for the purposes of cleansing, &c.

### *Description of Accompanying Drawing.*

Figure 1 is a vertical sectional view of my improved water-cooler, and

Figure 2, a sectional plan view of the same on the line 1-2, fig. 1.

### *General Description.*

The body of the cooler does not differ essentially from those in common use, it consisting of outer and inner casings A and B, with intervening packing material, of a base, C, and of a detachable lid or cover, D. Any of the usual packings may be used for the interior of the lid or cover, as well as for the space between the casings; but I prefer to employ, for the latter purpose especially, loose wool, suitably rammed or packed into the space to be filled, as I have ascertained this material to be a most effective non-conducting medium.

The packing between the casings may be covered at the top by any suitable cement, a.

The main peculiarity of my invention is, the employment of a removable air-tight ice-vessel, F, which is submerged in the water contained in the cooler, as shown in fig. 1. This vessel is supported at a short distance above the bottom of the cooler by a frame or spider, b, which permits the water to circulate beneath the said vessel, and extending around the upper edge of the latter is a horizontal steadying flange, h, which is almost or quite in contact with the sides of the cooler. This flange is perforated with holes i, as best

observed in fig. 2, and has two recesses, j j, at opposite sides, which enable the vessel to be griped when it is to be lifted from the cooler.

These recesses also permit the passage of lugs k k, projecting from the interior of the cooler, and arranged to bear upon the top of the flange, when the vessel is slightly turned, as shown in fig. 1, and to thus prevent the accidental displacement of the same.

In order to prevent the admission of air to the interior of the ice-chamber, and also of water, when the cooler is filled to a point above the flange h, the cover m of the said ice-chamber or vessel is provided with a gum or other suitable packing-ring, p, which insures a perfectly tight joint.

By arranging the ice-vessel in the manner above described, so that it can be removed from the cooler, free access can be had to the interior of the latter for purposes of cleansing, &c., and the ice, being contained in a separate chamber, from which both water and air are entirely excluded, will last a much longer time than in coolers in which the ice is placed in the water chamber, or in a separate chamber, to which the air has access whenever the lid of the cooler is removed to replenish the water, &c.

### *Claims.*

1. The combination, with a water-cooler, of a removable or detachable ice-vessel, F, provided with a detachable cover, and a packing intervening between the cover and vessel, and arranged to be submerged or partially submerged in the water-chamber, but having no communication with the latter, substantially as set forth.

2. The said vessel F, in combination with the frame b, and with the perforated steadying-flange h, adapted to the lugs k k of the cooler, as described.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

WILLIAM STOKES COBB.

Witnesses:

LOUIS BOSWELL,  
FRANK B. RICHARDS.