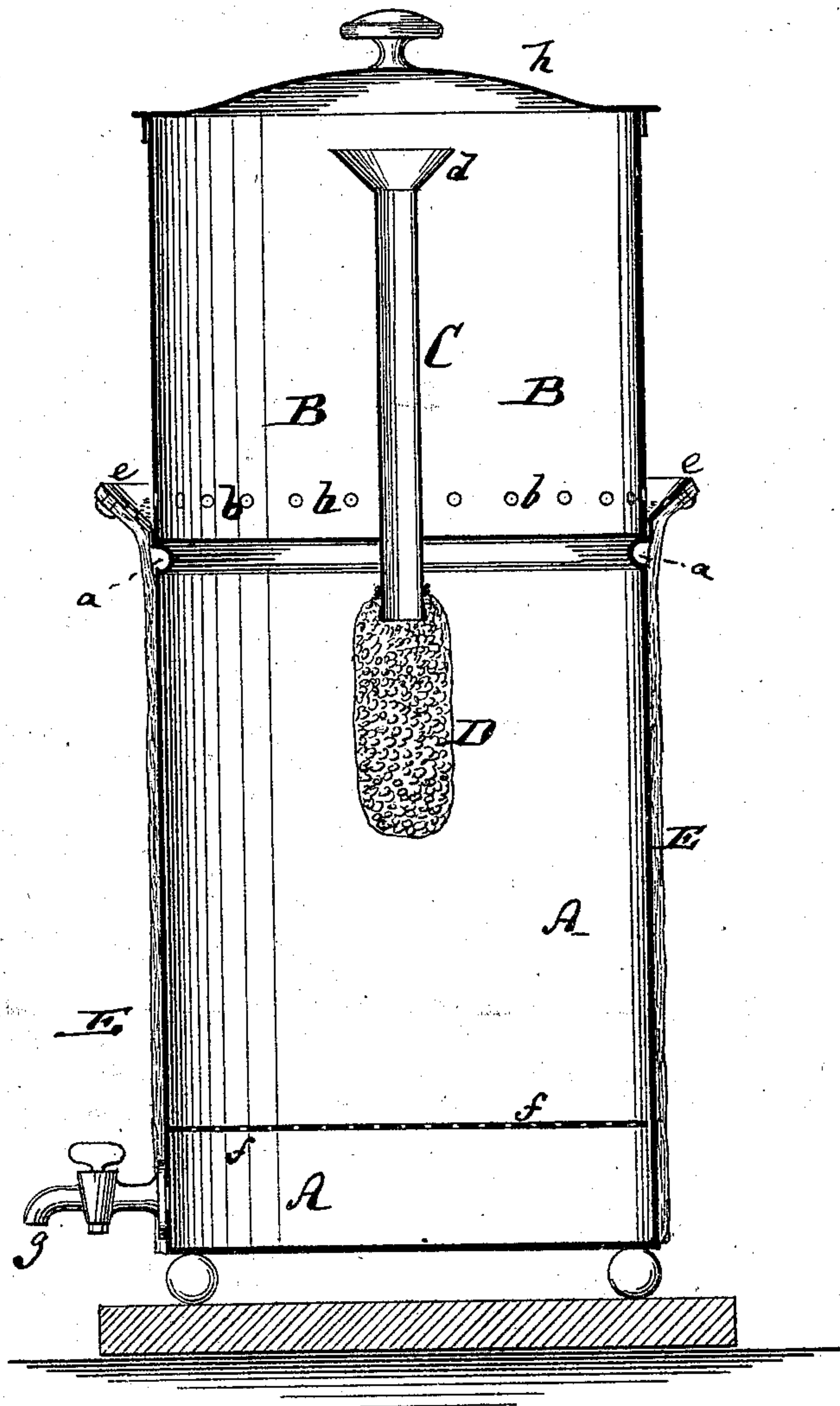


K. GODDARD.
Water-Coolers.

No. 149,852.

Patented April 21, 1874.



Witnesses:

Chas. Baettig.
F. v. Briesen

Inventor:

Res: K. Goddard
by his attorney

Av Briesen

UNITED STATES PATENT OFFICE.

KINGSTON GODDARD, OF RICHMOND, NEW YORK.

IMPROVEMENT IN WATER-COOLERS.

Specification forming part of Letters Patent No. 149,852, dated April 21, 1874; application filed February 20, 1874.

To all whom it may concern:

Be it known that I, Rev. KINGSTON GODDARD, of Richmond, in the county of Richmond and State of New York, have invented a new and Improved Water-Cooler and Refrigerator, of which the following is a specification:

The drawing represents a sectional elevation of my improved water-cooler.

The object of this invention is to construct a simple and inexpensive water-cooler for house and office use, &c., in which the liquid contents will be properly cooled, even in the hot season, without the use of ice or other expensive cooling medium; and the invention consists in constructing the cooler in two parts—that is to say, in making it of an upper and lower vessel, the lower containing the water to be cooled, and the upper made with perforations around its lower part, through which water contained therein will moisten a covering of felt, wool, or other porous material that is wrapped around the lower vessel. The upper vessel is also provided with a central pipe for supplying the lower vessel with water. The moist felt will, by evaporating its moisture, effect the desired cooling of the contents of the lower vessel on principles already known in science.

The letter A in the drawing represents the lower vessel of my improved water-cooler, and B the upper vessel. Both are made of cylindrical or other proper shape, the upper vessel B being supported on an inwardly-projecting bead, *a*, or other support furnished it at the upper part of the vessel A, so that B will stand directly above A. C is a tube, extending from the upper part of the vessel B downward through the bottom *b* of such vessel B into the vessel A. A suitable filter, D, may be suspended from the lower end of the tube C, while the upper end of such tube may be made funnel-shaped, as indicated at *d* in the drawing. Near the bottom the sides of the vessel B are perforated with small holes *e e*. The vessel A is surrounded by a piece of felt, E, or other equivalent flexible porous material, said piece of felt extending to the upper edge of the vessel A if said upper edge is made to flare outward, as shown, and to extend above the row of holes *e* in the lower

part of the vessel B; but if the upper end of the vessel A is not made to extend above the row of holes *e*, then the felt or other porous wrapper E extends beyond the upper end of A, and around the perforated portion *e* of the vessel B.

For use, the cooler is manipulated as follows: The water to be used in the vessel A is poured into the funnel *d*, and finds its way into A through the tube C and filter *d*. Water is also poured into the vessel B, and gradually trickles from such vessel B through the small holes *e e* into the felt covering E, moistening the same throughout, and thus producing a moist covering all around the vessel A. The water thus contained in the felt will, of course, evaporate, and the more rapidly the higher the temperature surrounding the cooler. By the evaporation the heat from the water in A will also be withdrawn, and such water will be kept cool and agreeable for drinking purposes.

h in the drawing represents the lid or cover to the vessel B.

When this cooler is used in offices that are provided with water-pipes furnishing constant supplies of water, such pipes may be connected with the upper vessel B, the connection having a valve that will automatically close when B is full, and open when it is not full, so that both vessels may be constantly kept filled to secure continuous operation and a continuous supply of cold water for drinking or other purposes, even in summer.

f represents a perforated false bottom, which may be used in the vessel A to still more filter the contents thereof before they are drawn off through the cock *g*.

I claim as my invention—

A cooler composed of a lower vessel, A, around which porous material E is wrapped, and of an upper vessel, B, having perforations *e e* near the lower end, and containing the pipe C, both vessels being connected for operation, substantially as described.

The foregoing description of my invention signed by me this 14th day of February, 1874.

KINGSTON GODDARD.

Witnesses:

A. V. BRIESEN,
E. C. WEBB.