

G. W. MALPASS.
Water-Cooler.

No. 208,913.

Patented Oct. 15, 1878.

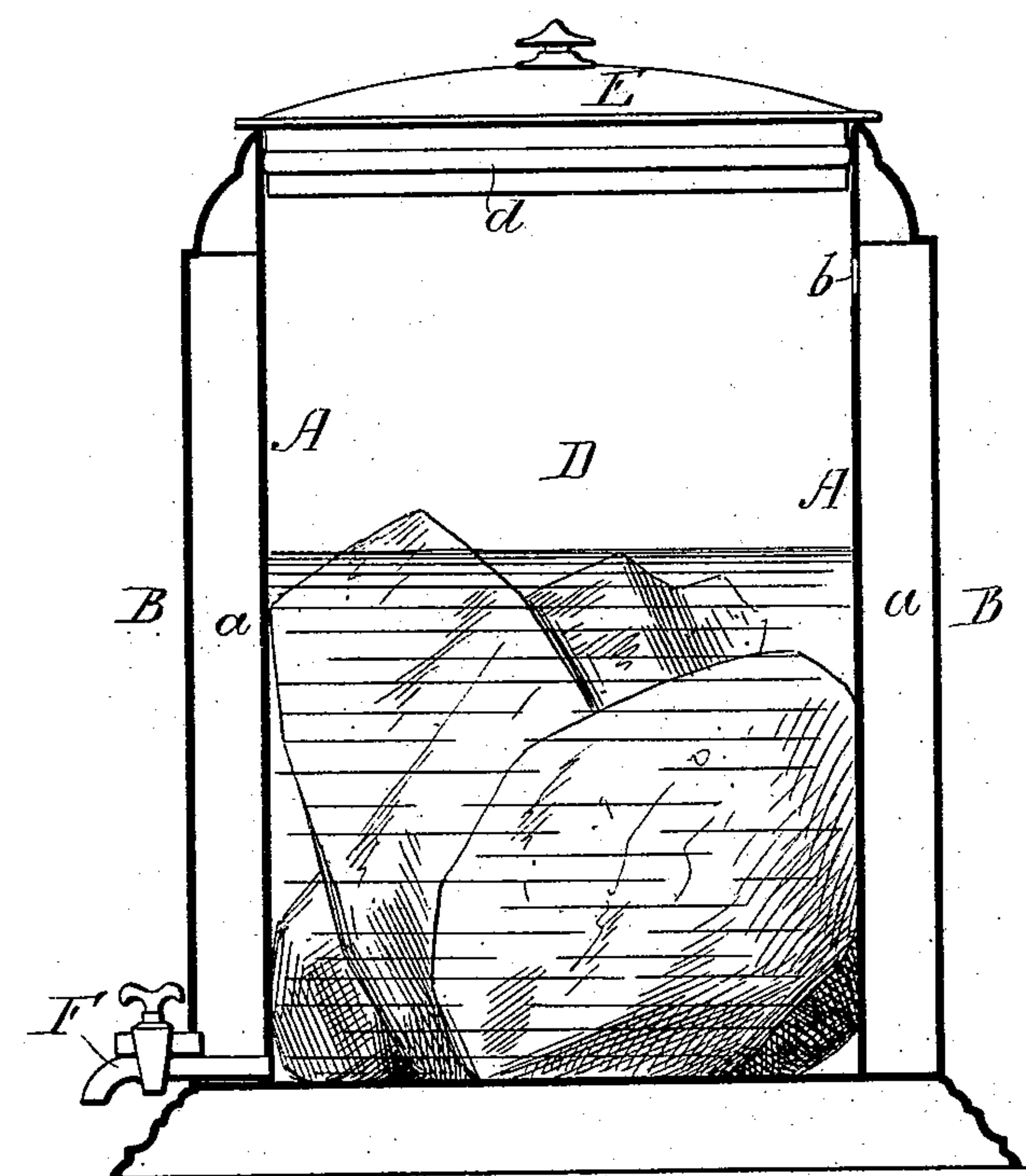


FIG. 1.

FIG. 3.

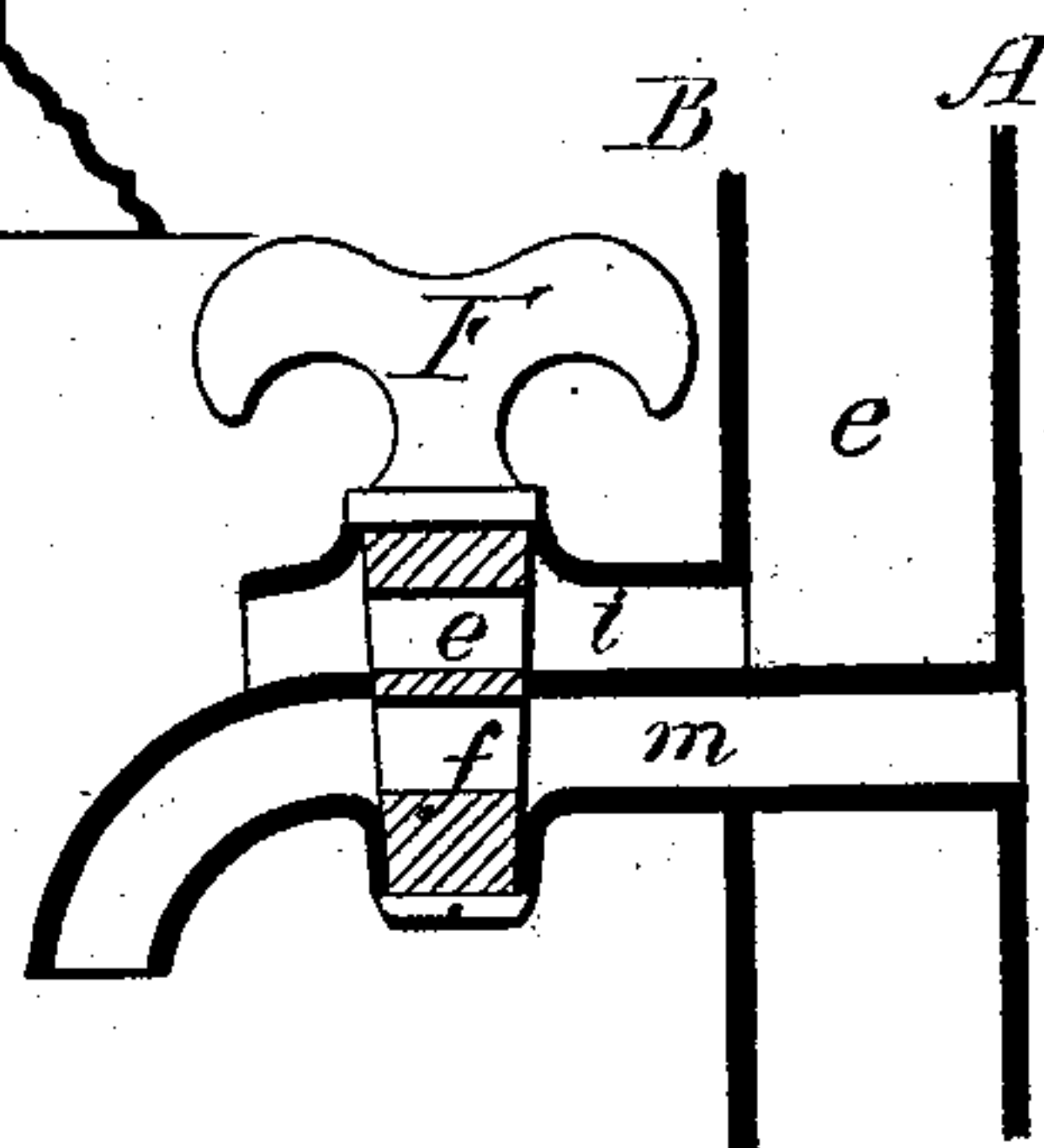
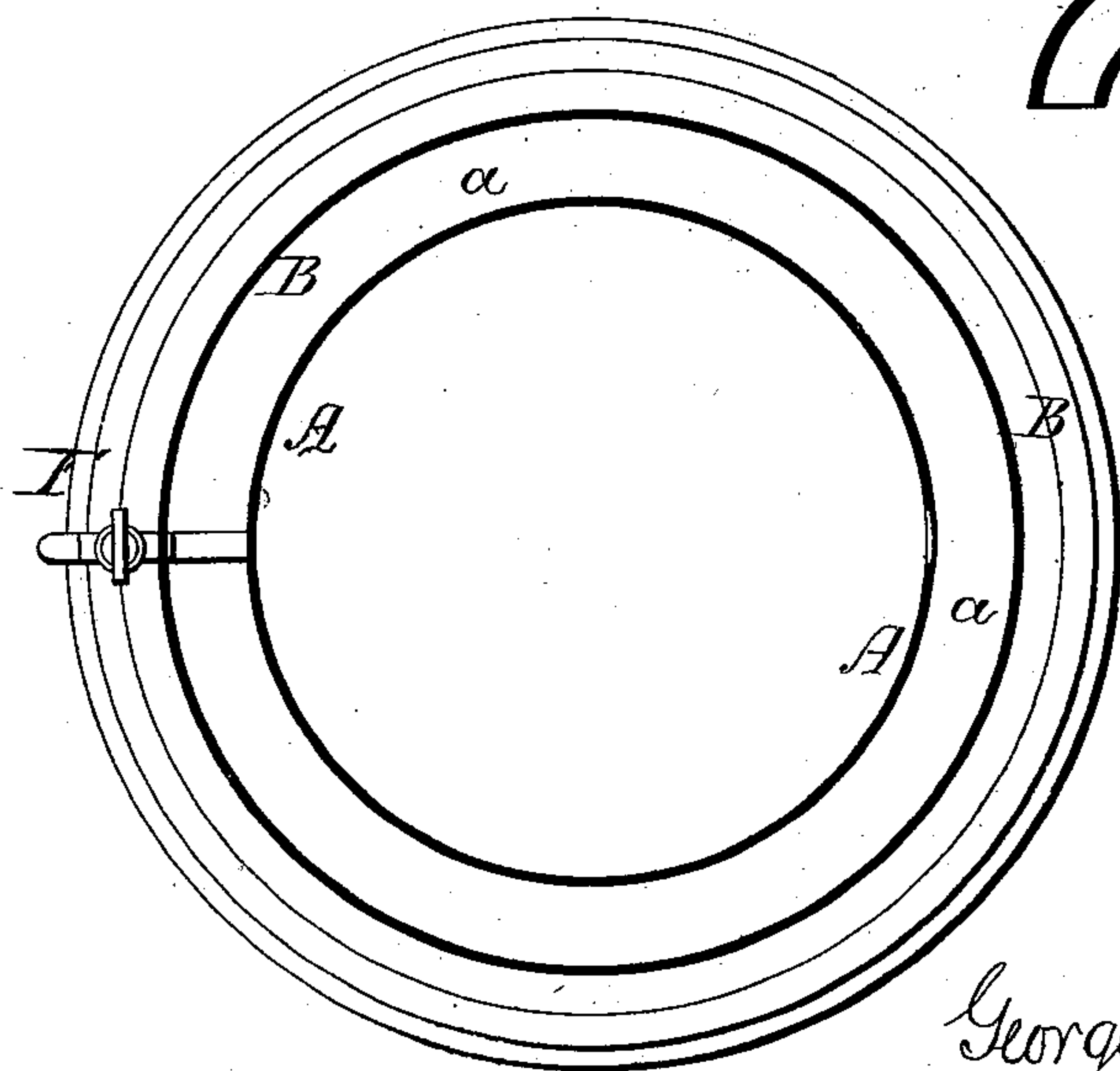


FIG. 2.



Witnesses,
John M. Heemer
Thomas M. Shain

Inventor
George W. Malpass
by his Attorneys
Howson and Son

UNITED STATES PATENT OFFICE.

GEORGE W. MALPASS, OF PHILADELPHIA, PENNSYLVANIA.

IMPROVEMENT IN WATER-COOLERS.

Specification forming part of Letters Patent No. **208,913**, dated October 15, 1878; application filed January 25, 1878.

To all whom it may concern:

Be it known that I, GEORGE W. MALPASS, of Philadelphia, Pennsylvania, have invented a new and useful Improvement in Water-Coolers, of which the following is a specification:

The object of my invention is to so construct a water-cooler that the consumption of ice will be economized—an object which I attain in the following manner, reference being had to the accompanying drawing, in which—

Figure 1 is a vertical section of my improved water-cooler; Fig. 2, a sectional plan of the same, and Fig. 3 an enlarged section of the faucet.

The body of the cooler consists of an inner cylindrical casing, A, and an outer casing, B, concentric with the inner casing, the two casings thus inclosing an annular chamber, *a*, which communicates at the top with the central chamber, D, of the cooler through an opening, *b*.

The chamber D contains the water and ice, and is closed at the top by a cover, E, which is provided with an elastic ring, *d*, the latter bearing against the walls of the chamber and effectually preventing the access of air thereto around the cover.

The cooler is provided at the bottom with a double faucet, F, having two passages, *i* and *m*, and a plug with two openings, *e* and *f*, these openings being so arranged that communication through both passages *i* and *m* is opened or closed simultaneously.

The passage *i* communicates with the annular chamber *a*, and the passage *m* with the chamber D.

The operation of the cooler is as follows:

The chamber D being supplied with water and ice and the cover E applied, the air in the annular chamber *a* will soon become cooled by contact with the casing A, so that when the faucet F is opened and water withdrawn from the chamber D the space in said chamber above the water will be supplied with cool air from the chamber *a*, a supply of warmer air equal in volume to that which enters the chamber D being permitted to pass through the passage *i* of the faucet F into the lower end of the chamber *a*, in ascending through which its temperature is lowered by contact with the casing A.

If desired, the outer casing, B, may be made double and packed with non-conducting material.

I do not desire to claim, broadly, the combination of a casing with a double faucet having two passages, one of which communicates with the bottom and the other with the top of the interior of said casing; but

I claim as my invention—

The combination, in a water-cooler, of a double casing, A B, inclosing a water-chamber, D, and an air-space, *a*, communicating with said chamber, and a faucet, F, having a passage, *i*, communicating with the air-space, and a passage, *m*, communicating with the water-chamber, all substantially as specified.

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

GEORGE W. MALPASS.

Witnesses:

HARRY A. CRAWFORD,
HARRY SMITH.