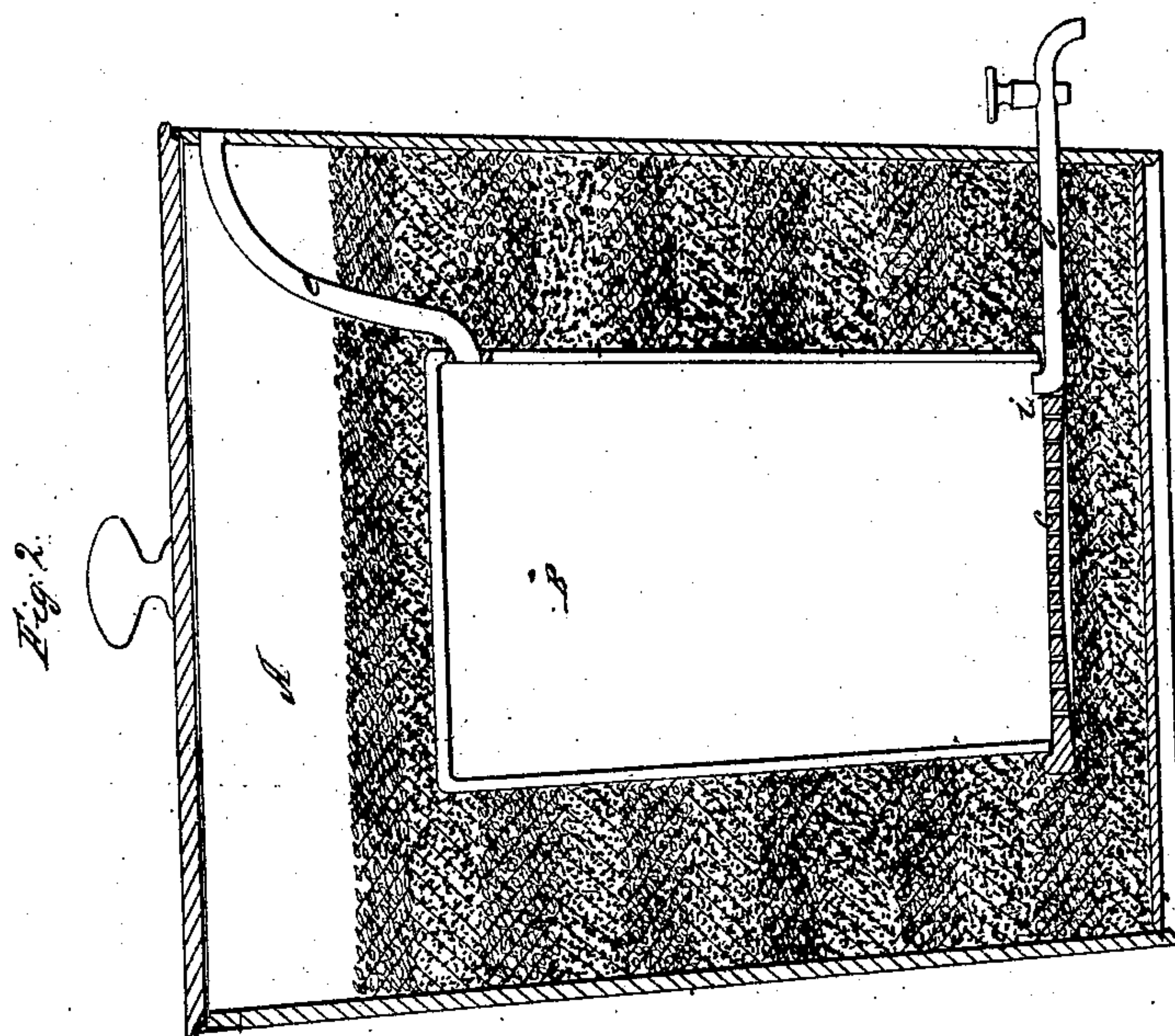
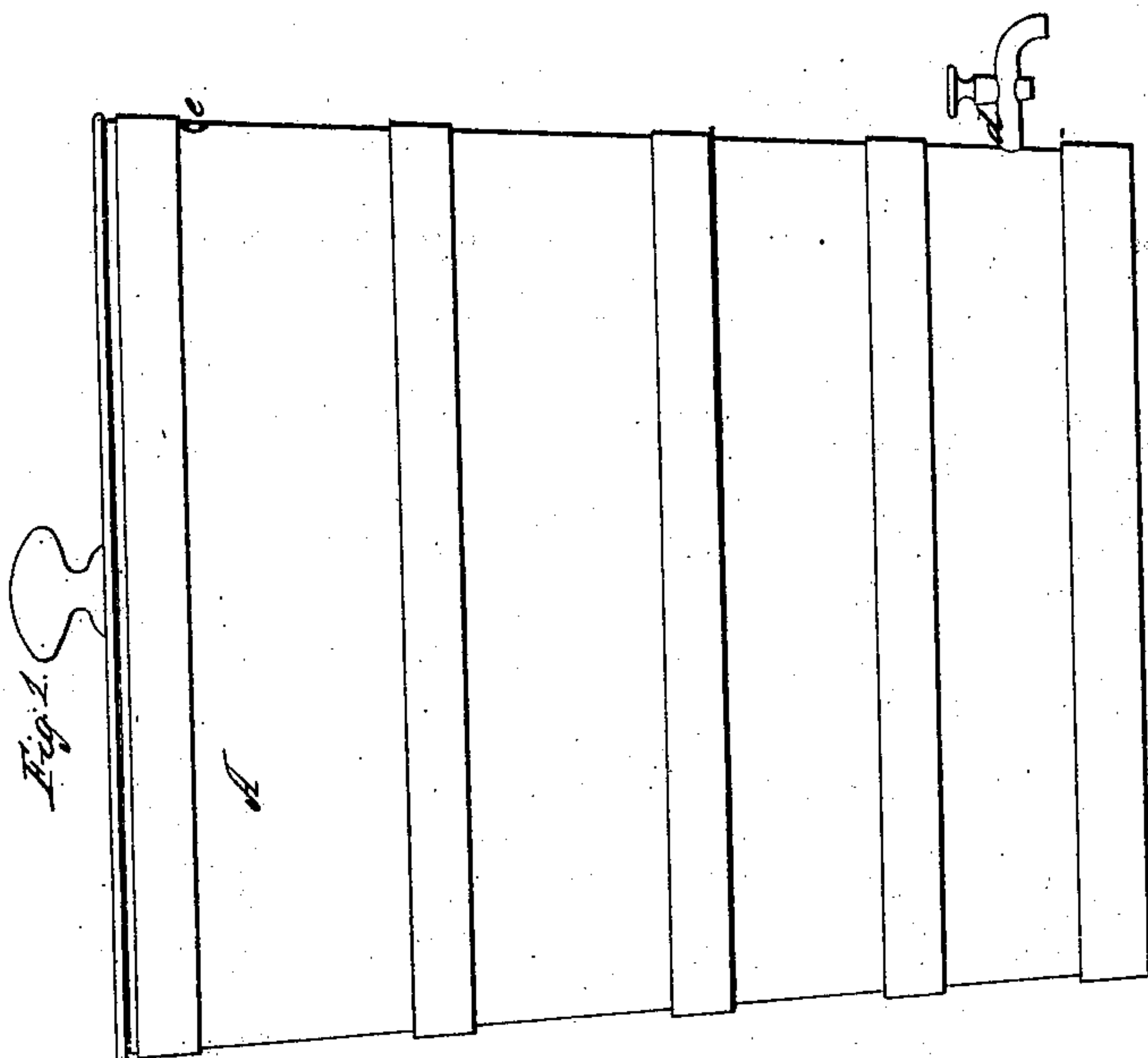
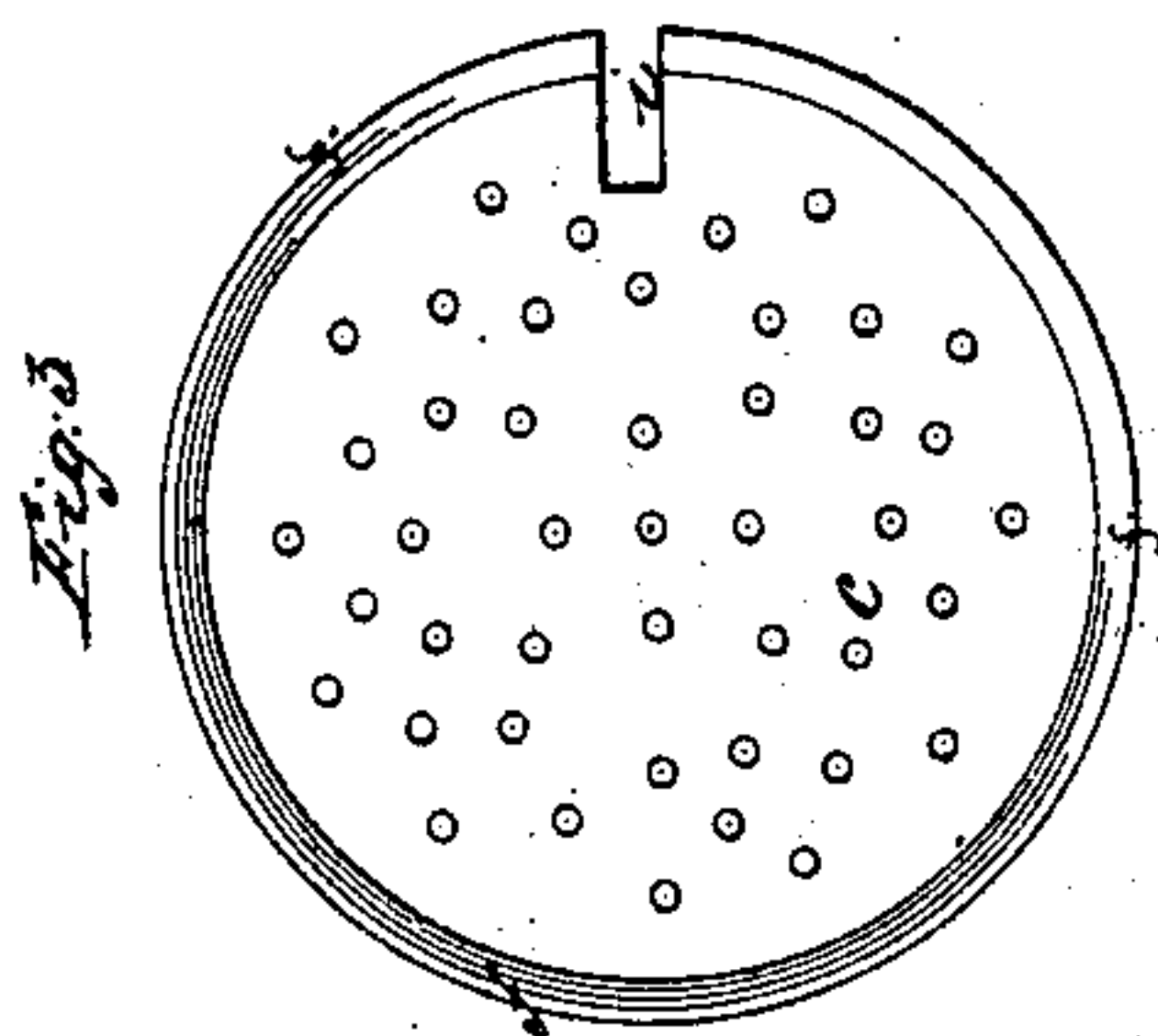


J. Kedzie,

Water Filter,

Patented Jan. 10, 1854

N^o 10,420.



UNITED STATES PATENT OFFICE.

JOHN KEDZIE, OF ROCHESTER, NEW YORK.

FILTER.

Specification forming part of Letters Patent No. 10,420, dated January 10, 1854; Reissued June 16, 1863, No. 1,498.

To all whom it may concern:

Be it known that I, JOHN KEDZIE, of the city of Rochester, county of Monroe, and State of New York, have invented certain
5 new and useful Improvements in the Construction of Filters, of which the following is a full, clear, and exact description, reference being had to the accompanying drawing, which forms part of this specification,
10 in which—

Figure (1) represents a side elevation, Fig. (2) a vertical section, Fig. (3) a plan of the concave cover or base.

To enable others skilled in the art to make
15 and use my improved filter, I will proceed to describe its construction in detail.

In a tub (A A) of any desired form which I prefer to make of oak or other hard wood firmly bound, but metal may be used if desired, I place a stoneware reservoir (B).
20 Near the top of this reservoir is inserted a pipe (e) which passes up and out of the tub (A) near its top, being secured to the reservoir by means of a cork or other suitable
25 packing; this pipe serves the double purpose of permitting the compressed air to escape, and allowing of a free circulation of pure air within the vessel. The inverted reservoir, is placed on a dishlike, or concave, perforated, base, and detachable bottom having
30 a flanged or turned up edge or rim *f, f, f, f*, serving to keep the reservoir B, in place. See Figs. 2 and 3. The bottom *c*, though detachable, fits sufficiently close to exclude
35 any impure particles of the sand or gravel packing, which, by transportation or sudden jar without this concave plate, is liable to become loosened, thereby closing the pipe
40 (*d*) and rendering the filter entirely useless until it shall have been repacked. On the edge or periphery of this plate or cover is

formed a slot (*i*), for the purpose of admitting an egress pipe (*d*), which passes out horizontally through the side of the tub (A), and to which a faucet is attached in the
45 usual manner. This pipe being firmly embedded in the packing, passing through the slot and under the edge of the reservoir as represented in Fig. (2), prevents all possibility of its becoming deranged or obstructed
50 by loose packing.

The blank space indicated by A, Fig. 2, is the portion or apartment of the tub, or tank to contain the water to be filtered. By this mode of construction of filters, it will be perceived, that the water is placed in the space
55 A, and by its pressure and gravitating tendency, passes through the successive layers of packing, downward around the reservoir B, Fig. 2, and forces upward, in a purified
60 state, through the perforations in the base or bottom *c, c*, into the space B.

The mode of packing filters, as well as the materials being so long in use and well known, and to which I lay no claim, a
65 minute and detailed description I deem unnecessary here.

Having thus fully described my invention and improvements, what I claim as new and original with myself, and desire to secure by
70 Letters Patent of the United States, is—

Constructing a filter with an inverted jar or reservoir B, having a detachable perforated base or bottom of a concave form, with
75 a flanged or rim edge *f, f, f, f*, having a slot *i*, Figs. 2, 3, substantially as set forth, and as herein described.

JOHN KEDZIE.

Witnesses:

I. PACKARD,
HENRY A. ROWLEY.