

(No Model.)

M. S. CLARK.

VENTILATING ATTACHMENT FOR WATER CLOSETS.

No. 307,526.

Patented Nov. 4, 1884.

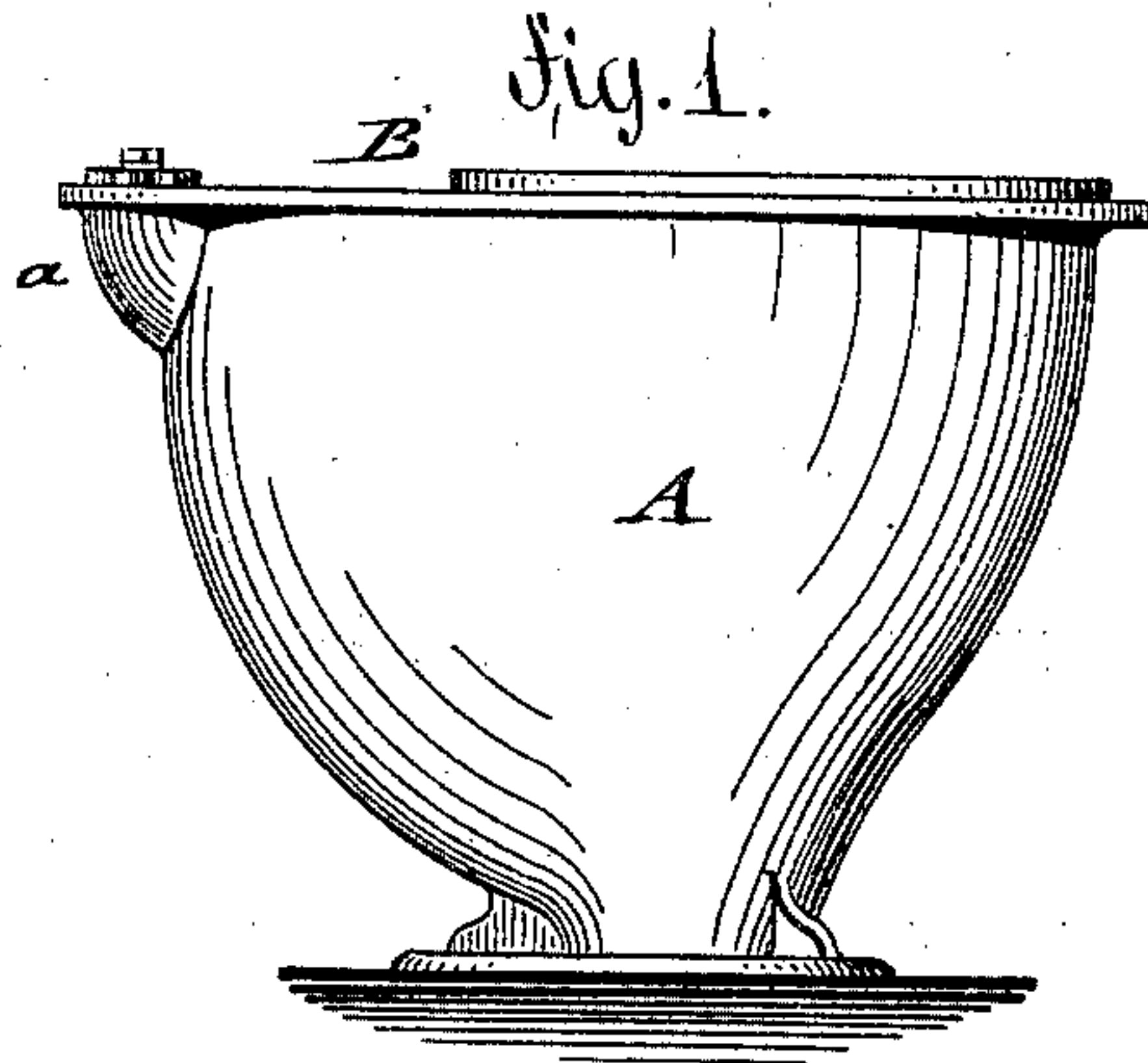


Fig. 2.

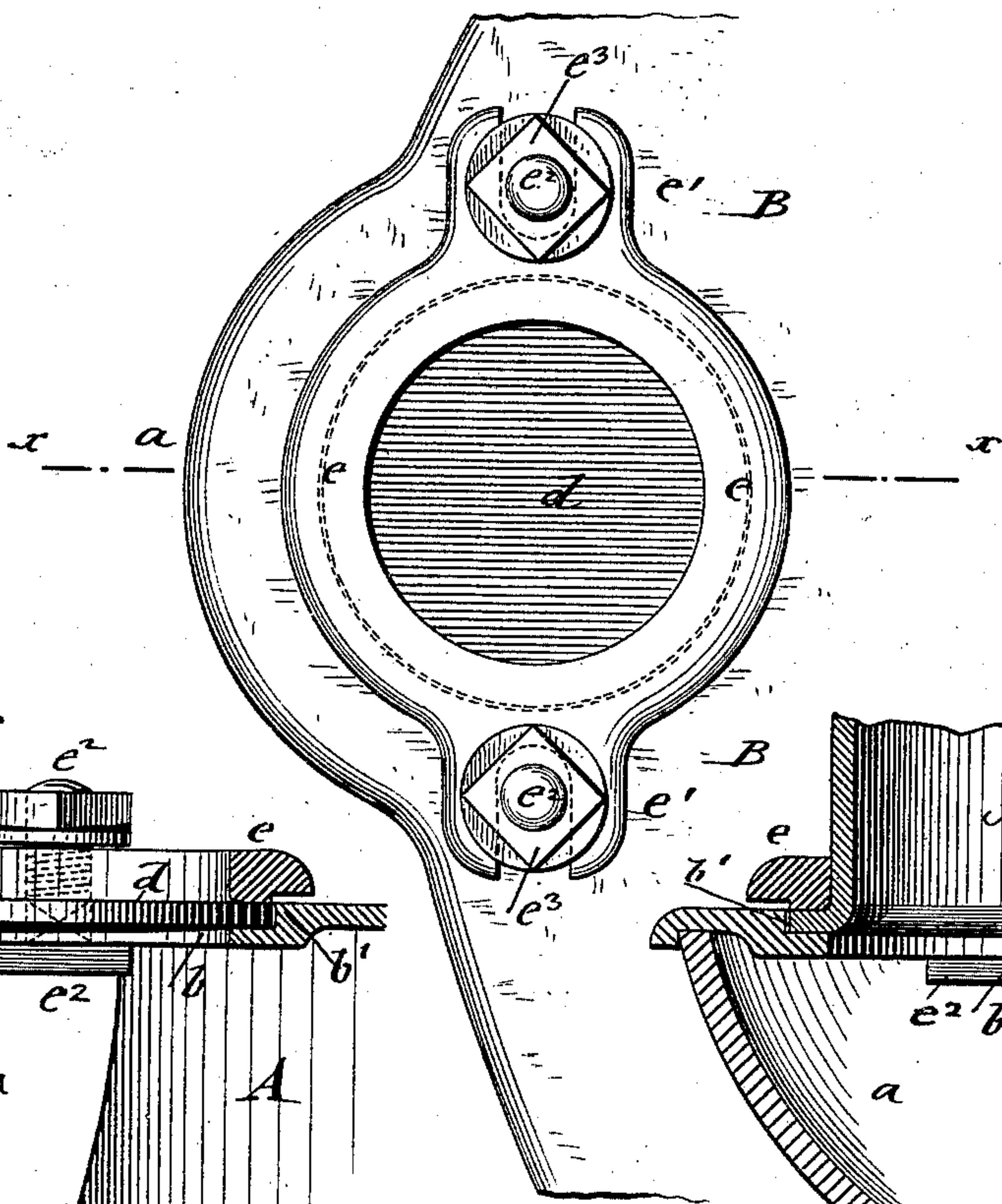
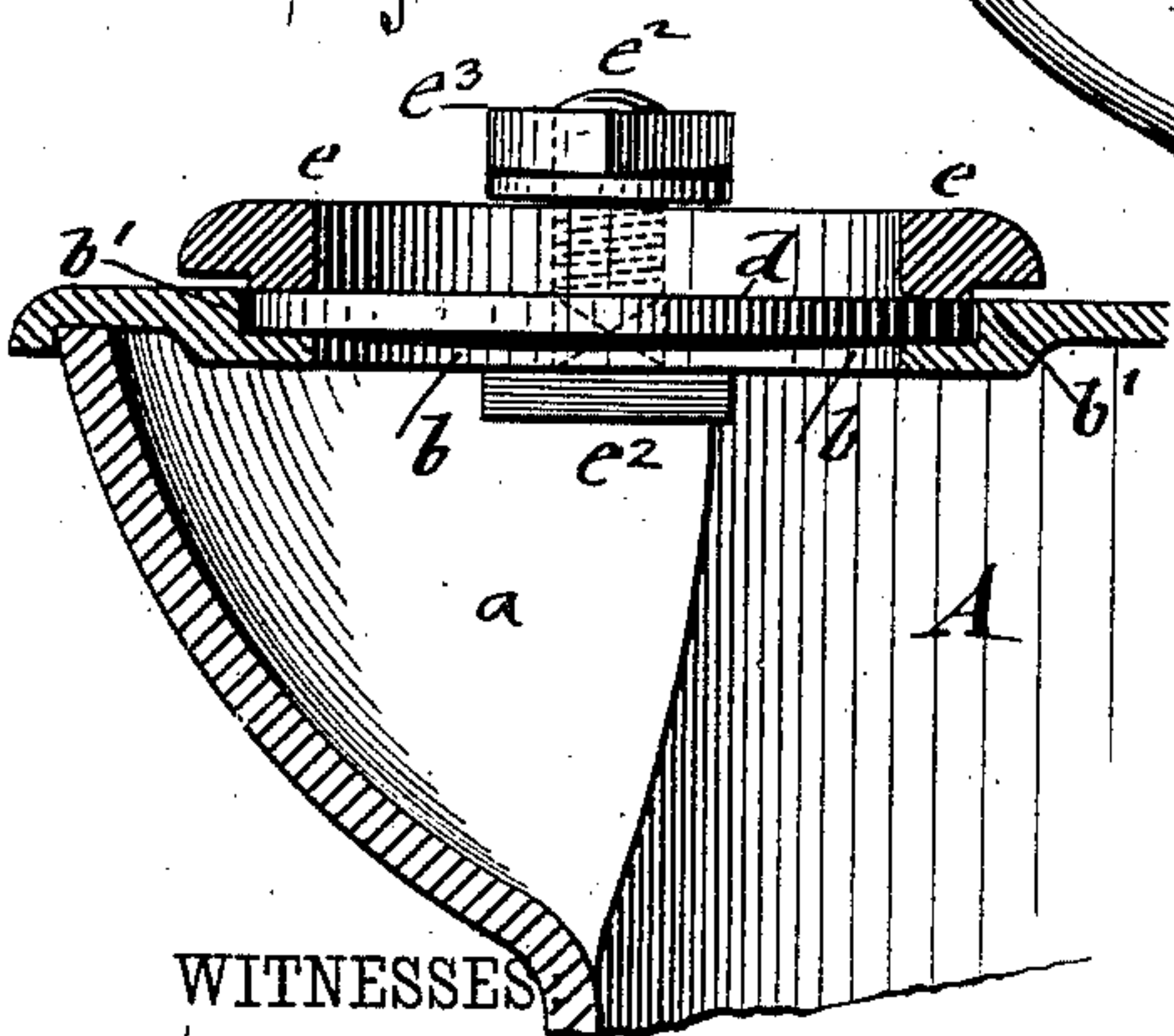


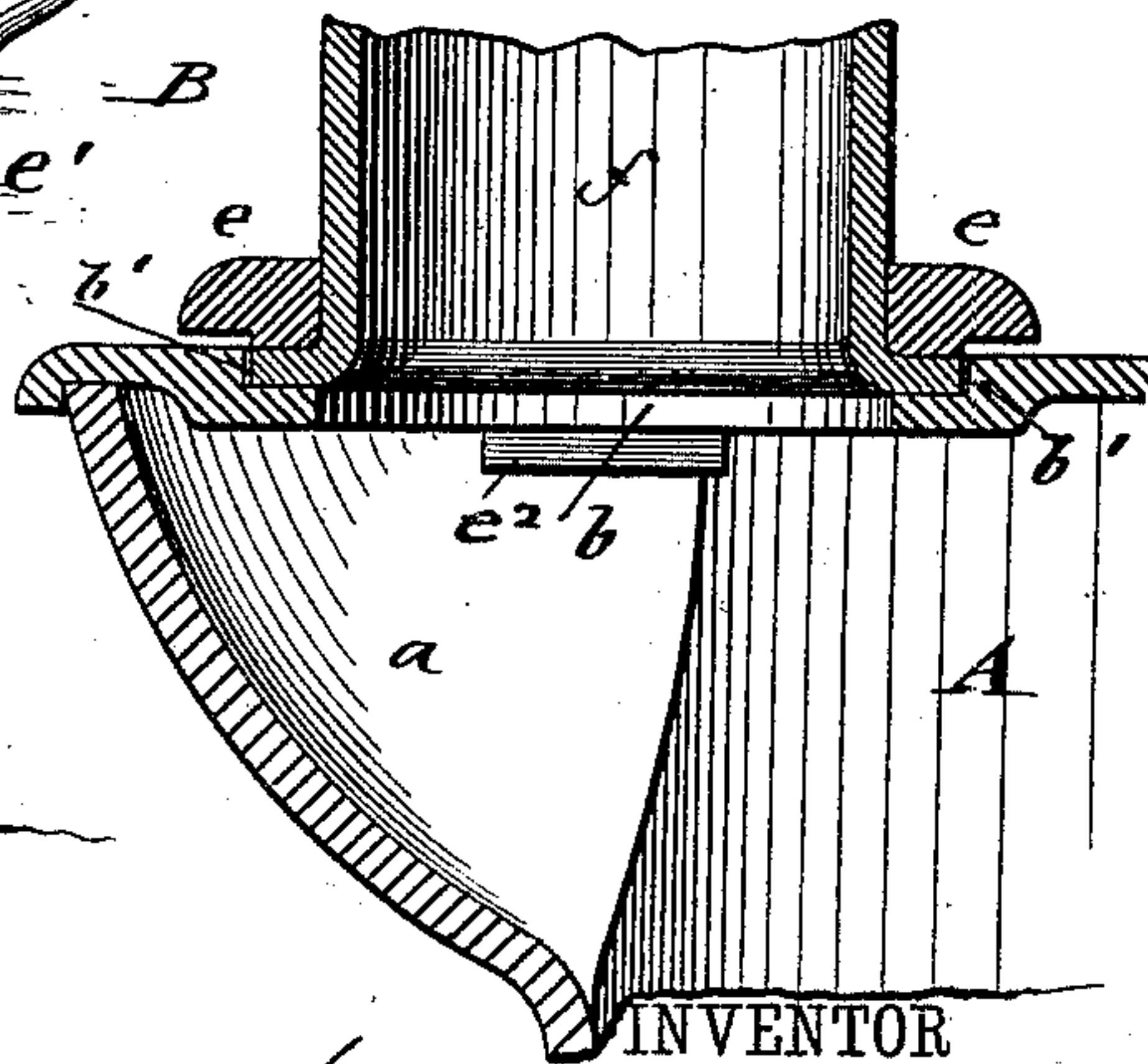
Fig. 3.



WITNESSES

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Fig. 4.



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VENTILATING ATTACHMENT FOR WATER-CLOSETS.

SPECIFICATION forming part of Letters Patent No. 307,526, dated November 4, 1884.

Application filed April 11, 1884. (No model.)

To all whom it may concern:

Be it known that I, MINFORD S. CLARK, of Brooklyn, Kings county, and State of New York, have invented certain new and useful
5 Improvements in Ventilating Attachments for Water-Closets, of which the following is a specification.

This invention has reference to an improved attachment for water-closets by which
10 the ventilating-pipe may be conveniently attached to the hopper of the closet; and the invention consists of a water-closet the hopper of which is provided at the rear part with an enlargement or bulge, the top of the hopper
15 having an opening above the bulge, with a depressed seat and a detachable plate retained by a collar and fastening-screws, which collar also serves to attach the ventilating-pipe after the plate is removed.

20 In the accompanying drawings, Figure 1 represents a side elevation of a water-closet with my improved ventilating attachment. Fig. 2 is a plan of said ventilating attachment drawn on a larger scale. Figs. 3 and 4 are
25 vertical transverse sections of the same on line *x x*, Fig. 2, showing, respectively, the ventilating-opening of the hopper closed by a detachable plate and opened and connected to the ventilating-pipe.

30 Similar letters of reference indicate corresponding parts.

A in the drawings represents the hopper of my improved water-closet, which is made of cast-iron or other suitable material. At the
35 upper rear end of the hopper A is arranged an outwardly-bulging portion, *a*, which is made integral with the hopper A. The top B of the closet is provided with an opening, *b*, and having a circumferential seat, *b'*, said
40 opening being closed by a disk-shaped plate or cover, *d*, which is set into the seat flush with top B of the closet, and retained by a collar, *e*, having recessed ears *e'* at diametrically-opposite points, said cover being tightly
45 secured to the top B by screw-ports *e²*, that are screwed tightly up through the top B from the under side of the same, so as to prevent
gases from passing up along the threaded shanks. The bolts are provided above the
50 top B with nuts and washers *e³*, that are applied to the upper ends of the threaded shanks of the bolts at the top of the collar *e*. The

covering-plate *d* is permanently retained in position by the bolted collar *e*, the ventilating-opening being kept closed while the closet
55 is shipped and in case it is not desired to ventilate the hopper of the closet. Whenever it is desired to attach a ventilating-pipe to the hopper, the plate *d* is removed and the outwardly-bent flange of the ventilating-pipe *f*
60 secured to the seat *b'* by the collar *e*, as shown in Fig. 4, the collar being then secured in position by the bolts *e²*. By this arrangement it is not necessary to cut a hole in the top B or hopper A, for soldering on the ventilating-
65 pipe, as heretofore, whereby labor is saved to the plumber and a more convenient mode of attachment of the ventilating-pipe provided.

Having thus described my invention, I claim as new and desire to secure by Letters Patent— 70

1. The combination of a water-closet hopper, A, having an enlargement or bulge, *a*; at the upper rear end, top B, having an opening, *b*, a detachable plate, *d*, a collar, *e*, and screw-bolts *e²*, for fastening the plate *d* to the
75 top B, substantially as set forth.

2. In a water-closet, the combination of the hopper A, having a bulge, *a*, a top, B, having an opening, *b*, and seat *b'*, a detachable covering-plate, *d*, a collar, *e*, having recessed ears
80 *e'*, and fastening nuts and bolts *e² e³*, substantially as set forth.

3. The combination of the hopper A, having a bulge, *a*, made integral therewith, a top, B, having an opening, *b*, a detachable covering-plate, *d*, a collar, *e*, and bolts *e²*, screwed
85 from the under side through the top, and nuts *e³*, applied to the upper ends of the bolts, substantially as set forth.

4. The combination of a water-closet hopper A, having an enlargement or bulge, *a*, at the upper rear end, a top, B, having an opening, *b*, above the bulge *a*, a collar, *e*, and screw-bolts *e² e²*, for fastening the collar to the top,
90 so as to secure either a detachable covering-plate, *d*, or the ventilating-pipe *f*, substantially as set forth.

In testimony that I claim the foregoing as my invention I have signed my name in presence of two subscribing witnesses.

MINFORD S. CLARK.

Witnesses:

PAUL GOEPEL,
SIDNEY MANN.