

H. H. Craigie,

Water Closet.

No. 89857.

Patented May 11, 1869.

Fig. 1.

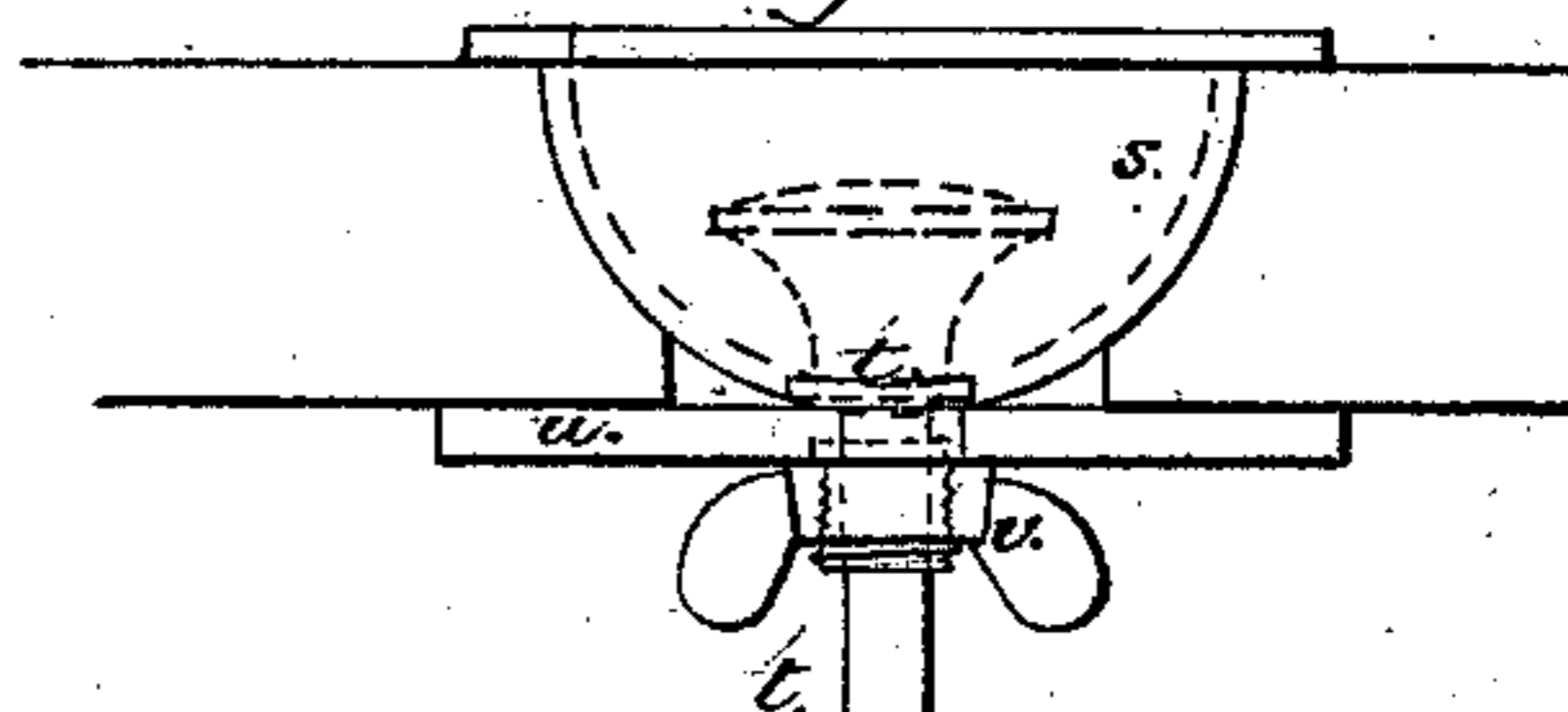


Fig. 4.

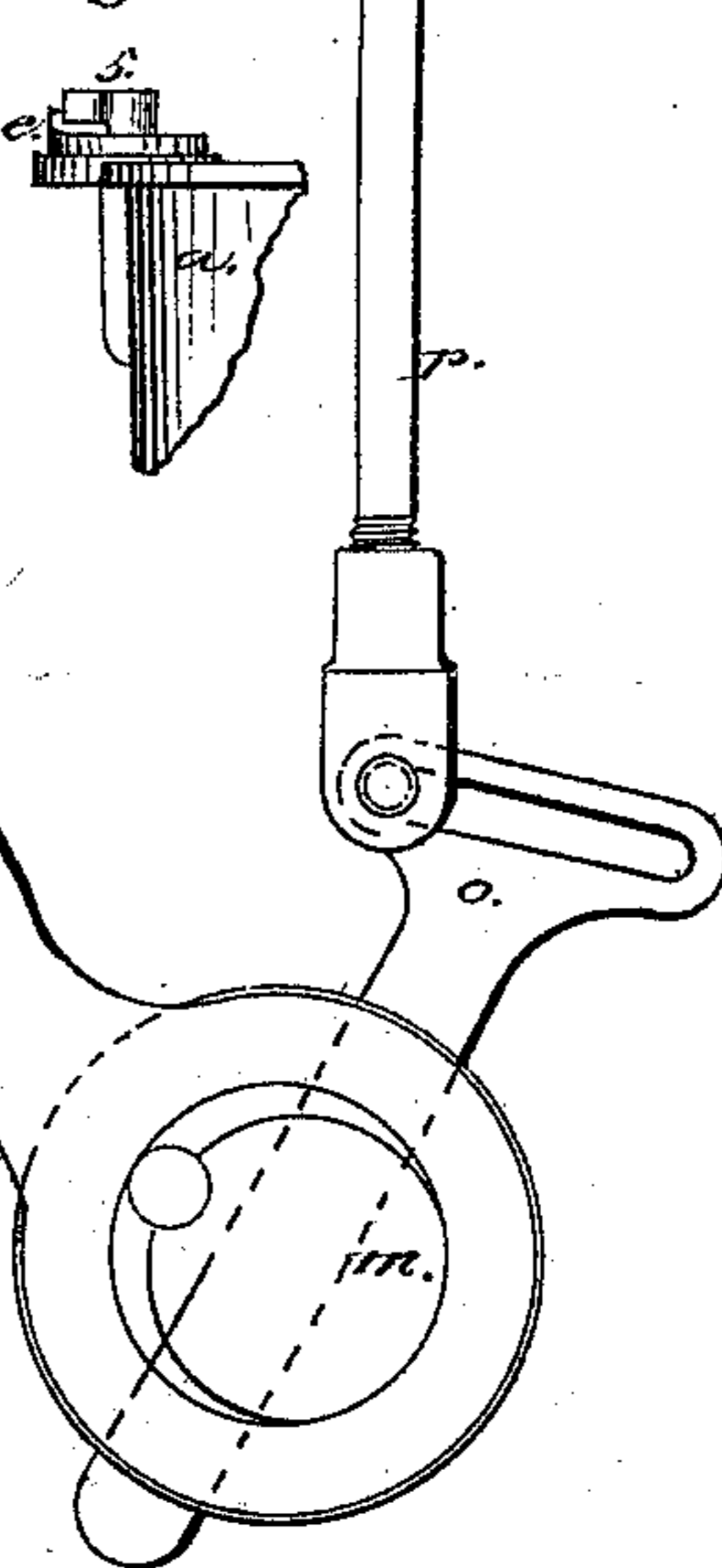


Fig. 1.

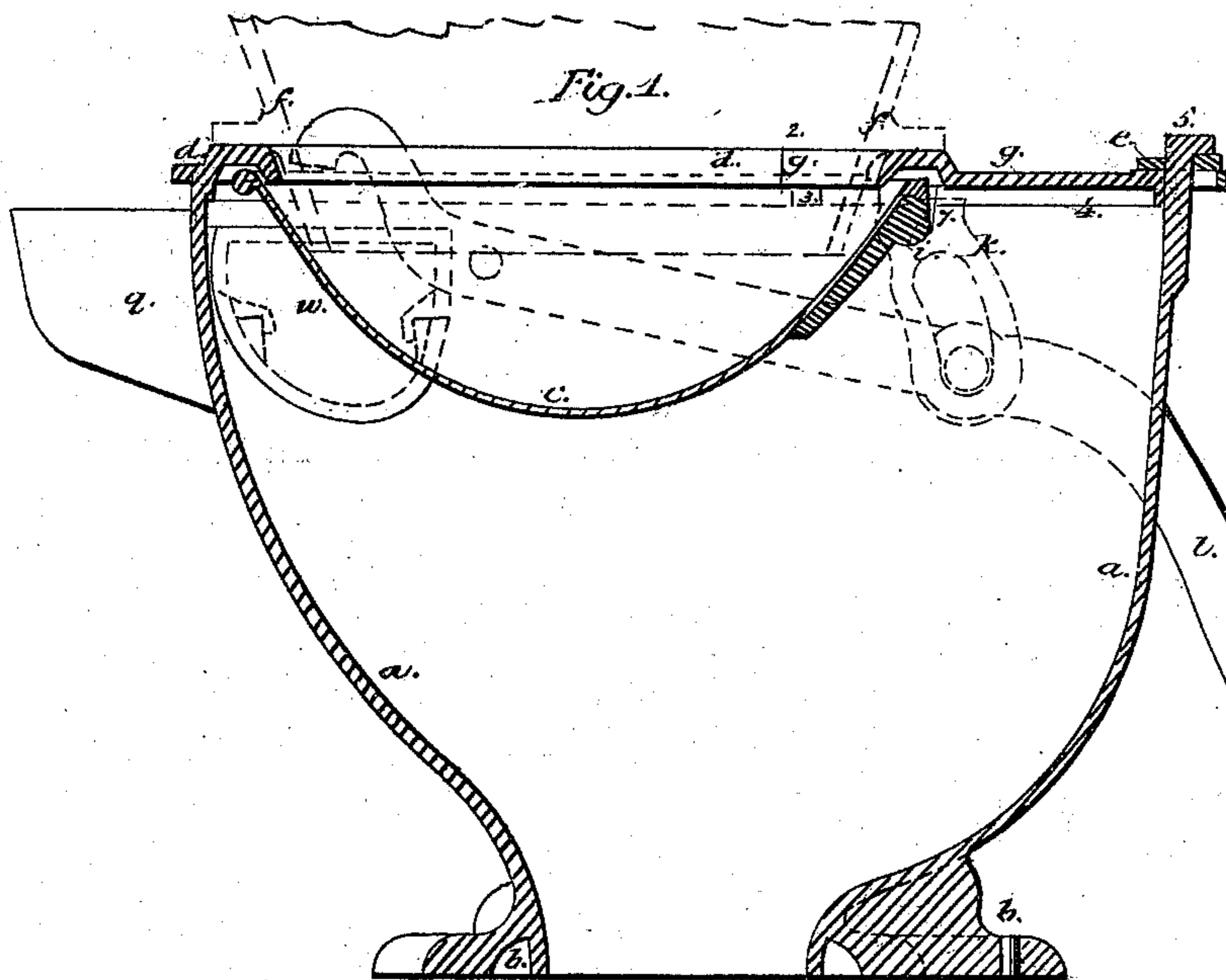


Fig. 3.

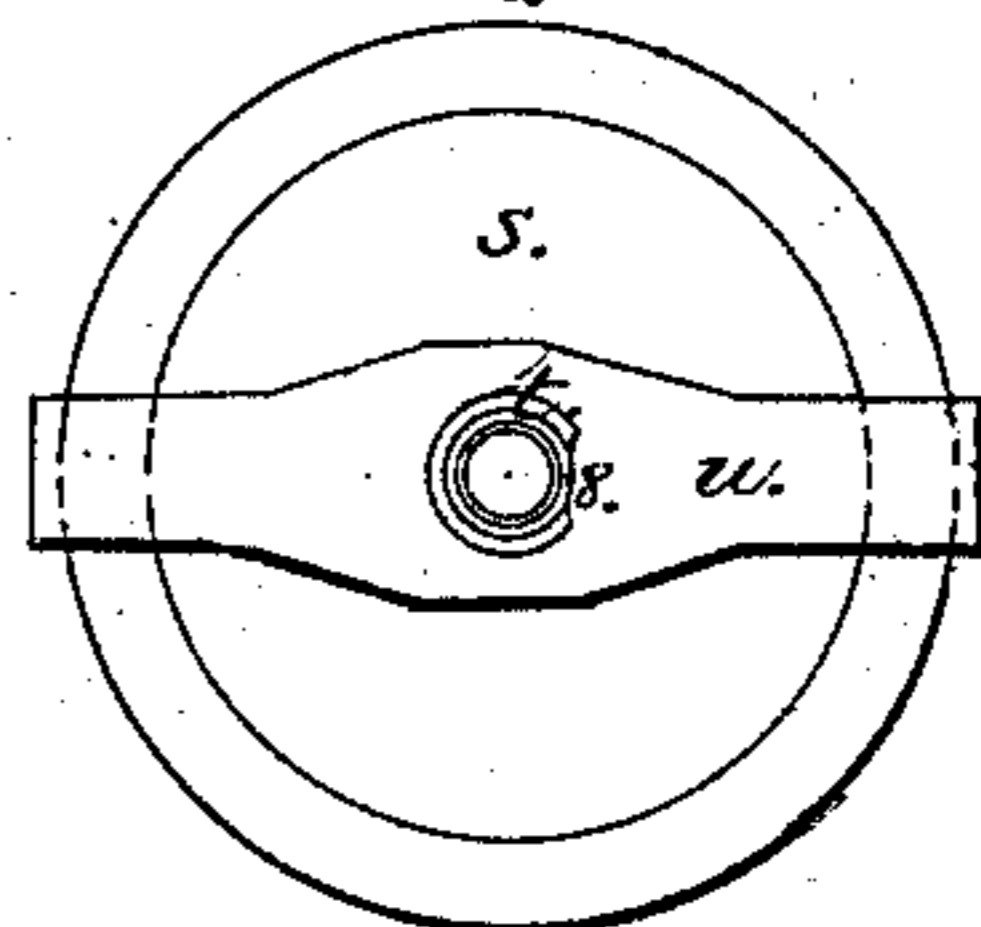
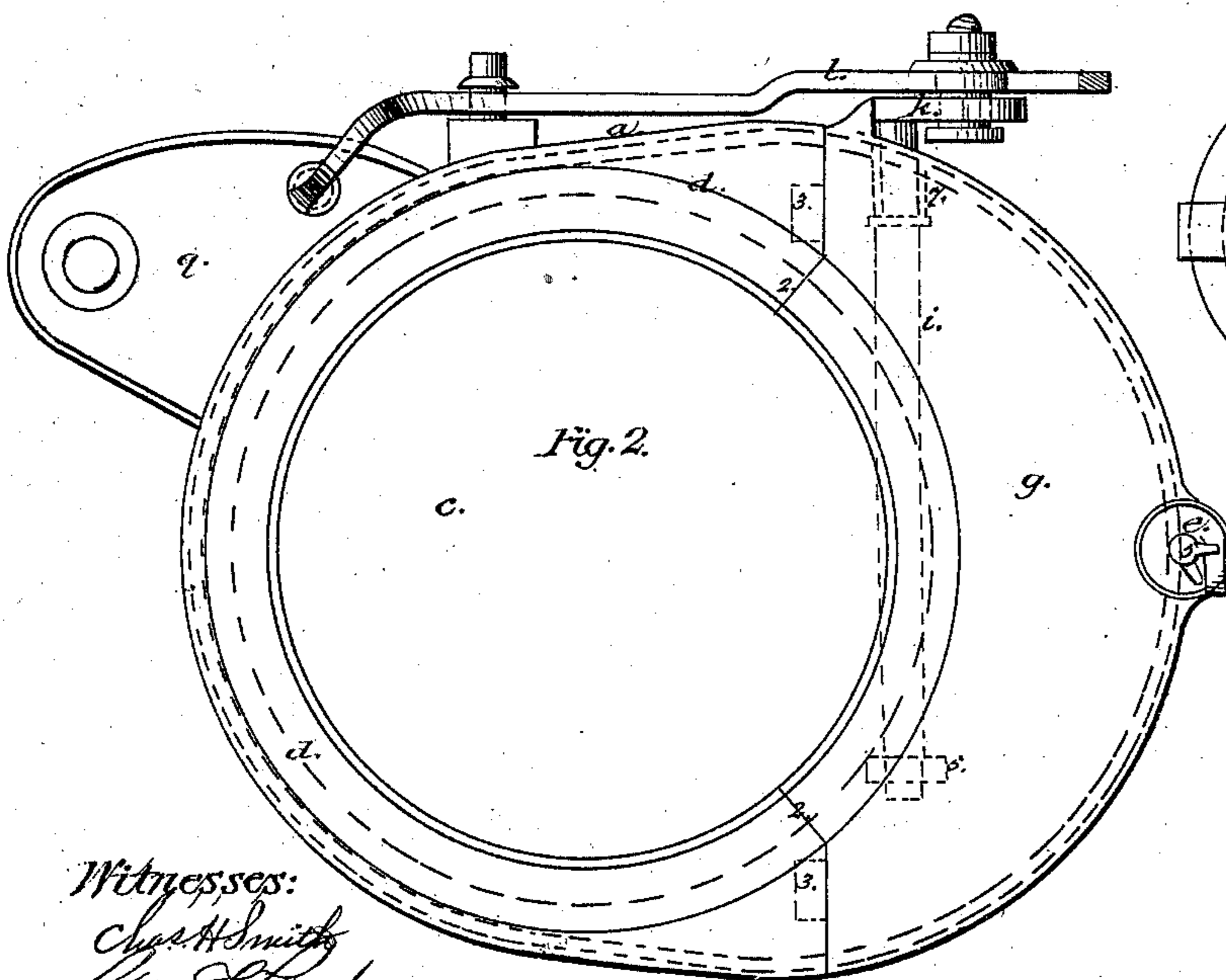


Fig. 2.



Witnesses:

Chas. H. Smith
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Inventor:

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United States Patent Office.

HUGH H. CRAIGIE, OF NEW YORK, N. Y.

Letters Patent No. 89,857, dated May 11, 1869.

IMPROVEMENT IN WATER-CLOSETS.

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

To all whom it may concern:

Be it known that I, HUGH H. CRAIGIE, of the city and State of New York, have invented and made a certain new and useful Improvement in Water-Closets; and I do hereby declare the following to be a full, clear, and exact description of the said invention, reference being had to the annexed drawing, making part of this specification, wherein—

Figure 1 is a vertical section of said improved water-closet.

Figure 2 is a plan of the same.

Figure 3 is an inverted plan of the bridge, for securing the socket of the pull.

Figure 4 is a side view of the inclined clamping-washer.

Similar marks of reference denote the same parts.

The object of this invention is to provide a means for introducing or withdrawing the pan from the hopper, and, at the same time, have but a small extent of joints to pack and render tight, by means of putty.

I also attach the socket for the pull, by means of a screw-thimble, nut, and bridge, so that the socket will be firmly drawn down to its place, without having to be rotated, as heretofore usual in screwing the socket down.

In the drawing—

a is the hopper, rising above the flange *b*, and made of a shape to receive the pan *c*, so that it may swing, to empty the contents, or be closed up against the under side of the flange *d*, and around the lower end of the basin *f*, shown by red lines, fig. 1.

The flange *d* is made as one piece, cast with the hopper *a*, so that there is no joint between it and the hopper *a*.

The removable cover *g* unites at the joint 2 with the flange *d*, forming part of the seat, or support for the basin *f*.

Upon the under side of this cover *g*, lugs are provided at 3 3, (see dotted lines, fig. 2,) that pass under the edge of the flange *d*, to hold down the cover at these points, and there is also a downward flange, 4, sitting within the hopper *a*, to aid in retaining the putty that is introduced to make the joint tight, and upon the hopper *a* is a stud, 5, with an overhanging, or hooked end.

The cover *g* sits down over this stud, and the parts are clamped together by an inclined-plane washer, *e*, that sits over the stud, and is partially revolved, so that its inclined plane, acting under the hooked end of the stud 5, shall press the plate, or cover *g* to its place, but allow of the easy removal of the parts, when desired.

This stud 5 may be made separate from the hopper *a*, and hook under studs thereon, instead of being cast with said hopper *a*.

The pan *c* is set on an axis, *i*, formed in one piece with the cam-arm *k*, and securely soldered, or brazed to the pan *c*.

This axis *i* is supported, at one end, in the bearing-lug 6, on the under side of the cover *g*, (see dotted lines, fig. 2,) and the other bearing for this axis *i* is at 7, in boxes, formed, half in the cover *g*, and the other half in the hopper *a*.

By this construction, the pan *c* can be taken out, for repair, or replaced with great facility, when the earthen basin *f* is not resting upon the flange *d* and cover *g*, it being understood that the axis of the pan *c* is placed in its bearings on the under side of *g*, and then introduced into the hopper *a*, as the cover *g* is brought down to its place.

This construction of these parts is strong and cheap, and great facility is given for fitting the parts together.

The lever *l*, weight *m*, link *o*, pull *p*, and projection *q*, on the side of the hopper *a*, are not herein claimed, as they have heretofore been set forth in applications for Letters Patent made by me.

In order to attach the socket, or basin *s* for the pull *p*, I make use of a thimble, *t*, that is separate from the socket, and has a flange around its upper end. (See dotted lines, fig. 1.)

This thimble passes through the hole in the socket *s*, and may be of any desired length to suit the thickness of the wood-work.

The screw of the thimble *t* is filed away on one side, as seen at 8, fig. 3, and over this is placed the bridge *u*, the hole in which is shaped to correspond, so that the flattened side of this thimble in the bridge shall prevent the thimble turning, as the nut *v* is screwed upon the said thimble, to draw that down and bind firmly the socket *s* to the wood-work.

The thimble *t* may have more than one flattened side, or be otherwise fitted so as not to revolve in the bridge *u*.

I make the hollow projection *q*, and its top, on which the valve is to rest, in one piece, cast with the hopper *a*, and I cover the opening from said projection into the hopper, by a removable plate, *w*, (see fig. 1,) that is held by lugs, and prevents paper or other material getting into the hollow projection *q*.

What I claim, and desire to secure by Letters Patent, is—

1. The movable cover *g*, forming a portion of the support for the basin, in combination with the flange *d*, formed as a part of the hopper *a*, and constituting the other portion of the support for the basin, substantially as set forth.

2. The bearing-lug 6 on the under side of the cover *g*, and the divided bearings at 7, in combination with the axis *i*, pan *c*, and arm *k*, as and for the purposes set forth.

3. The screw-thimble *t*, formed as specified, in combination with the bridge *u* and socket *s*, substantially as set forth.

4. The inclined-plane washer *e*, combined with the hooked stud 5, as and for the purposes specified.

5. The cover *w*, applied to the inner end of the hollow projection *q*, for the purposes set forth.

In witness whereof, I have hereunto set my signature, this 11th day of December, 1868.

H. H. CRAIGIE.

Witnesses:

CHAS. H. SMITH,
GEO. T. PINCKNEY.