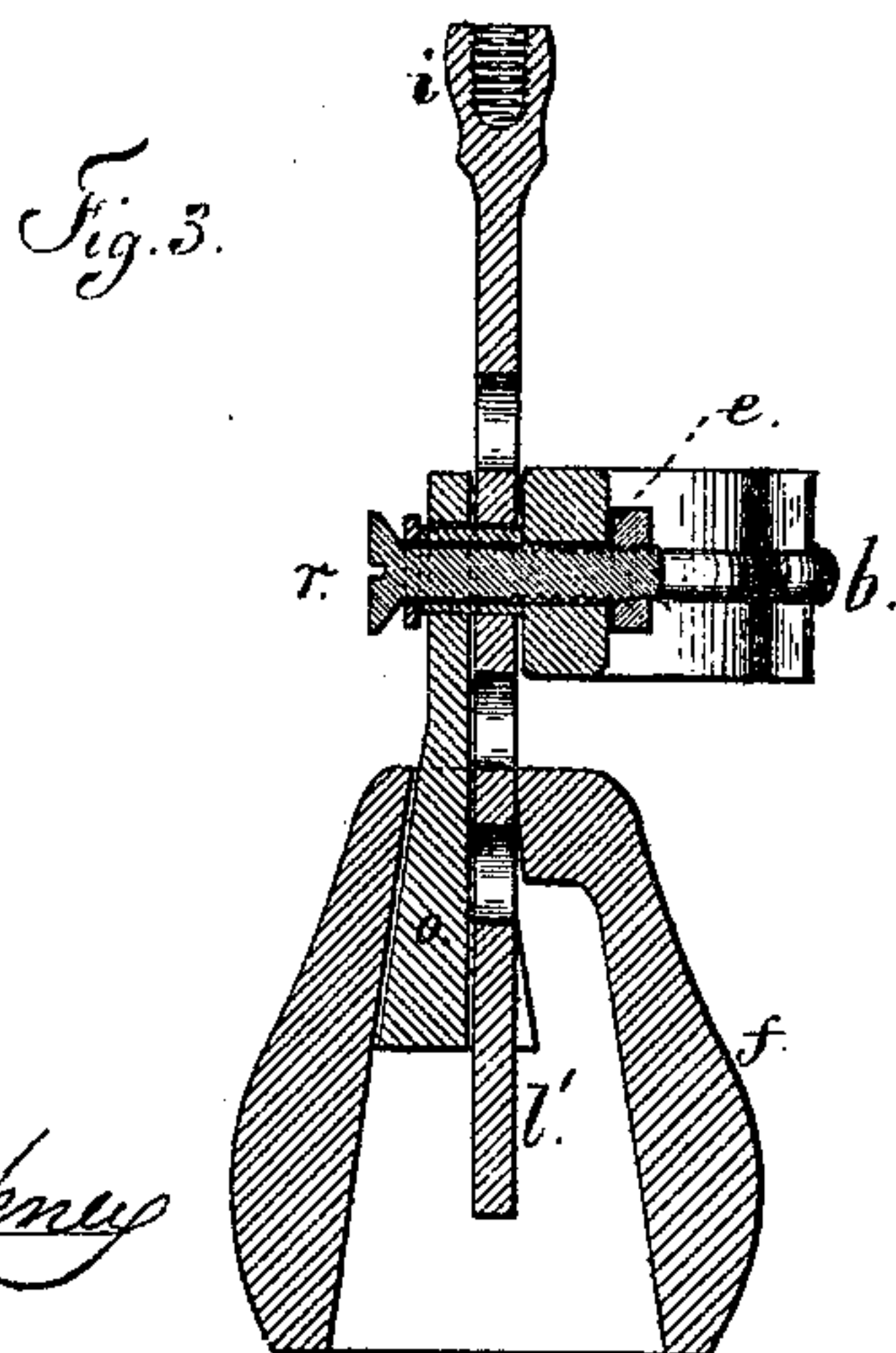
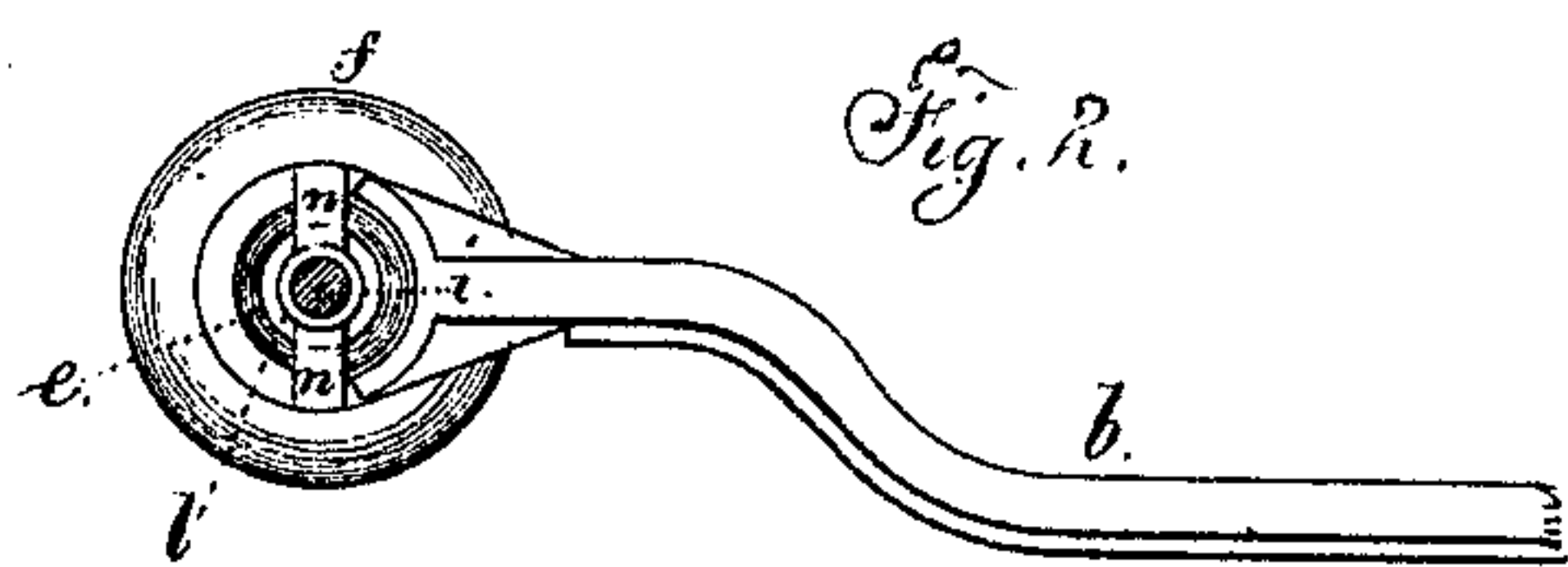
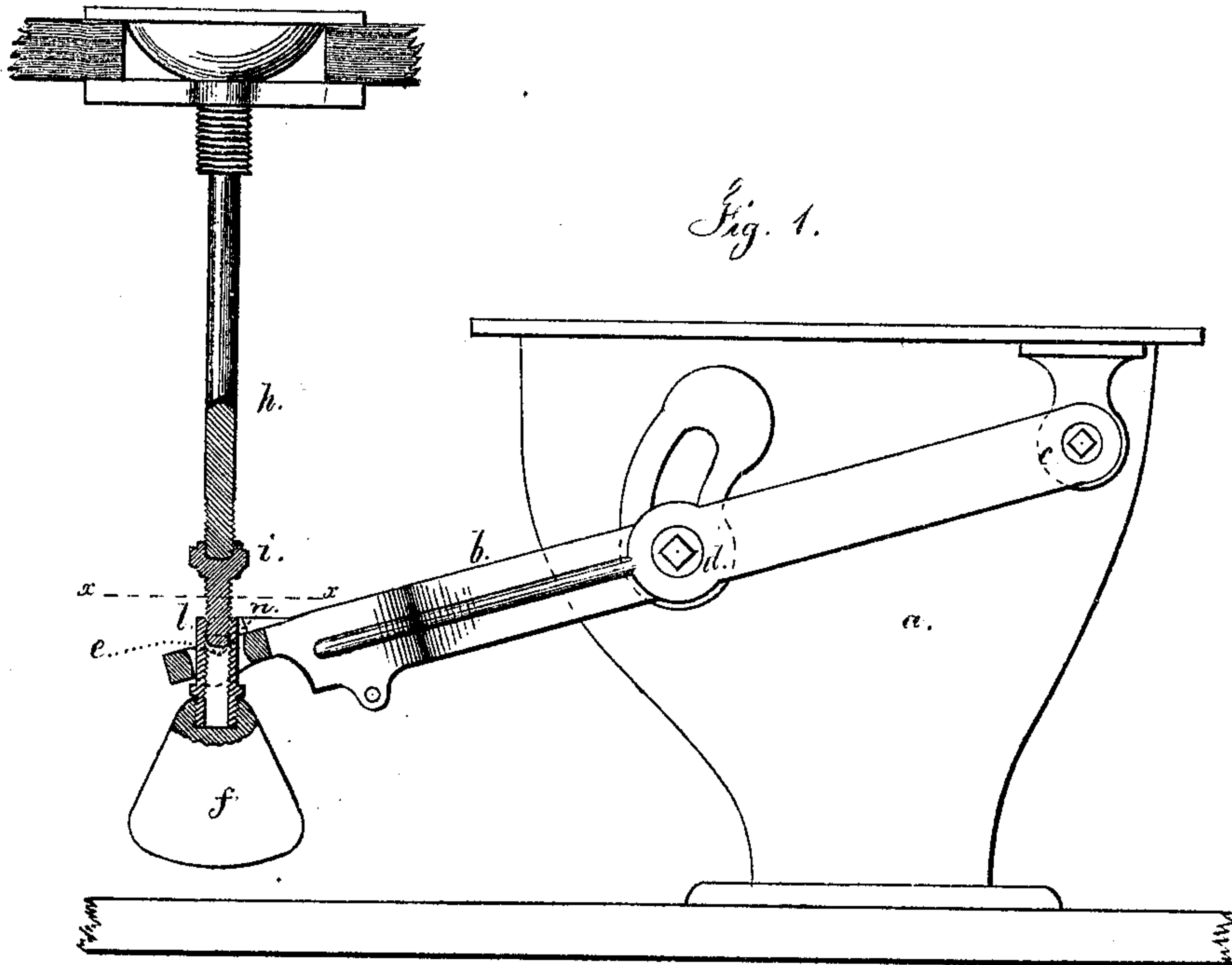


H. H. CRAIGIE.
Pulls for Water-Closet Levers.

No. 126,268.

Patented April 30, 1872.



Witnesses,

Charles Smith
Geo. E. Pickney

Hugh H. Craig
Lemuel W. Ferris atty.

UNITED STATES PATENT OFFICE.

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

IMPROVEMENT IN PULLS FOR WATER-CLOSET LEVERS.

Specification forming part of Letters Patent No. 126,268, dated April 30, 1872.

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 new and useful Improvement in Pulls for Water-Closet Levers; and the following is a full, clear, and exact description thereof.

In water-closets heretofore made a difficulty exists in keeping the pull upright, and were it not for a guide that is generally provided in the seat the pull would fall over; hence the lever-and-pull water-closets are almost always inclosed in a casing or box; and in cases where it is desired to use a water-closet without an inclosing-box seat the hopper-closet is usually employed. Besides this, in water-closets that are inclosed in a box-seat the pull does not always move with freedom, in consequence of the joint between the pull and its lever not always remaining in a correct position, and hence binding in the socket of the seat through which the pull passes.

My invention is made to overcome the difficulties aforesaid; and consists in a water-closet pull made with a counterpoise that tends to keep the pull vertical, and the joint between the pull and lever is such as to allow of the movement of the parts, but to prevent any binding of the pull either in the joint or in the socket of the seat through which the pull passes.

In the drawing, Figure 1 is a side view of the lever and pull of a water-closet, the parts at the intersection of the pull and lever being in section. Fig. 2 is a plan of the pull and end of the lever below the line *x x*, and Fig. 3 is a section of the weight and connection to the pull in a slightly modified form.

The hopper *a* is of any ordinary character, and the lever *b* is set upon a fulcrum-screw, *c*, and carries the roller *d* to operate the pan of the closet as usual. The lever *b* is made with an open eye at *e*, and the counterweight *f*, instead of being attached to the lever *b* or made as a part thereof, is separate and attached to the lower end of the pull *h*, so as to perform the double duty of a weight to the lever *b* in operating the closet, and of a counterpoise to keep the pull upright.

As a convenient manner of making the connection or joint between the lever *b* and pull *h*, I employ the socket *i*, receiving the lower end of the pull *h*, and screwed into the hollow thimble *l* that carries knife-edged bearings or lugs *n* that rest upon the eye *e*, and said thimble *l* passes through the eye *e* and attaches to the hollow counterweight *f*.

By this construction of joint between the lever and pull the distance between the knob of the pull and the lever may be varied by the screw-socket *i*. The weight *f* hangs by the knife edges or lugs *n* upon the lever *b* to perform the duty of an ordinary weighted lever in moving and holding the pan of the water-closet, and also to hold the pull in a vertical position regardless of any guide or socket at the upper end of the pull; hence, this improvement can be employed with or without an inclosing box or seat.

In place of the weight a spring might be employed to keep the pull upright; but I prefer the weight. In either case the pull is kept in an upright position regardless of any external support from the seat or closet.

In Fig. 3 the socket-link *l'* for the pull has holes for the screw *r*, so as to vary the length of the pull; and the wedge *o*, hanging from the screw *r*, is clamped to the link *l'* by the weight *f* that hangs upon said wedge.

I do not claim a weight connected to the pull of a water-closet by a joint, as this has been used; but the weight does not act to hold the handle always in an upright position, because the pull or rod can swing upon the joint.

I claim as my invention—

A water-closet pull and weight rigidly united to each other, and connected to the water-closet lever by a joint, as and for the purposes set forth.

Signed by me this 14th day of February, A. D. 1871.

H. H. CRAIGIE.

Witnesses:

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