

P. W. Neefus,

Water Closet,

N^o 34,118.

Patented Jan. 7, 1862.

Fig. 1.

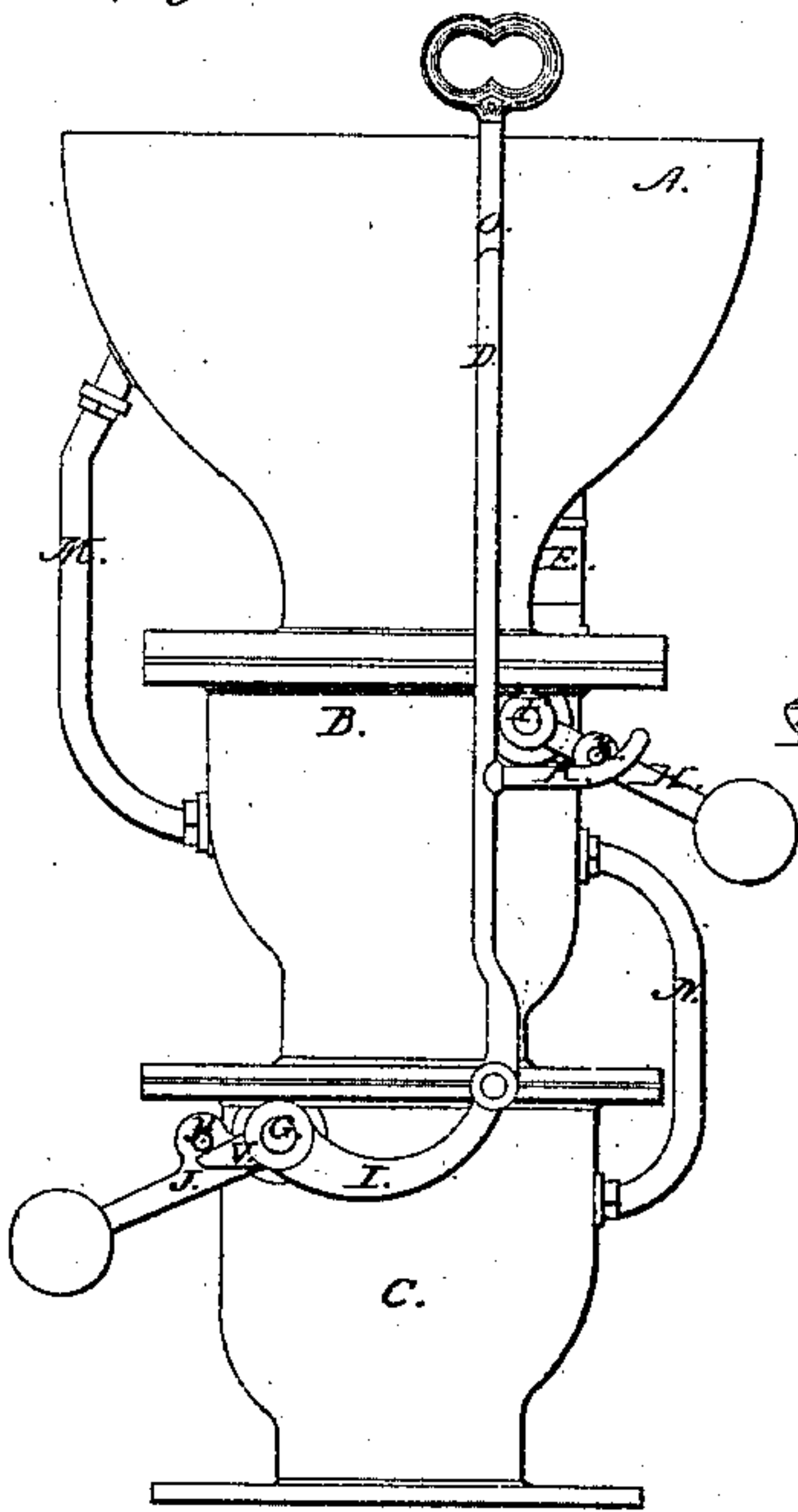


Fig. 2.

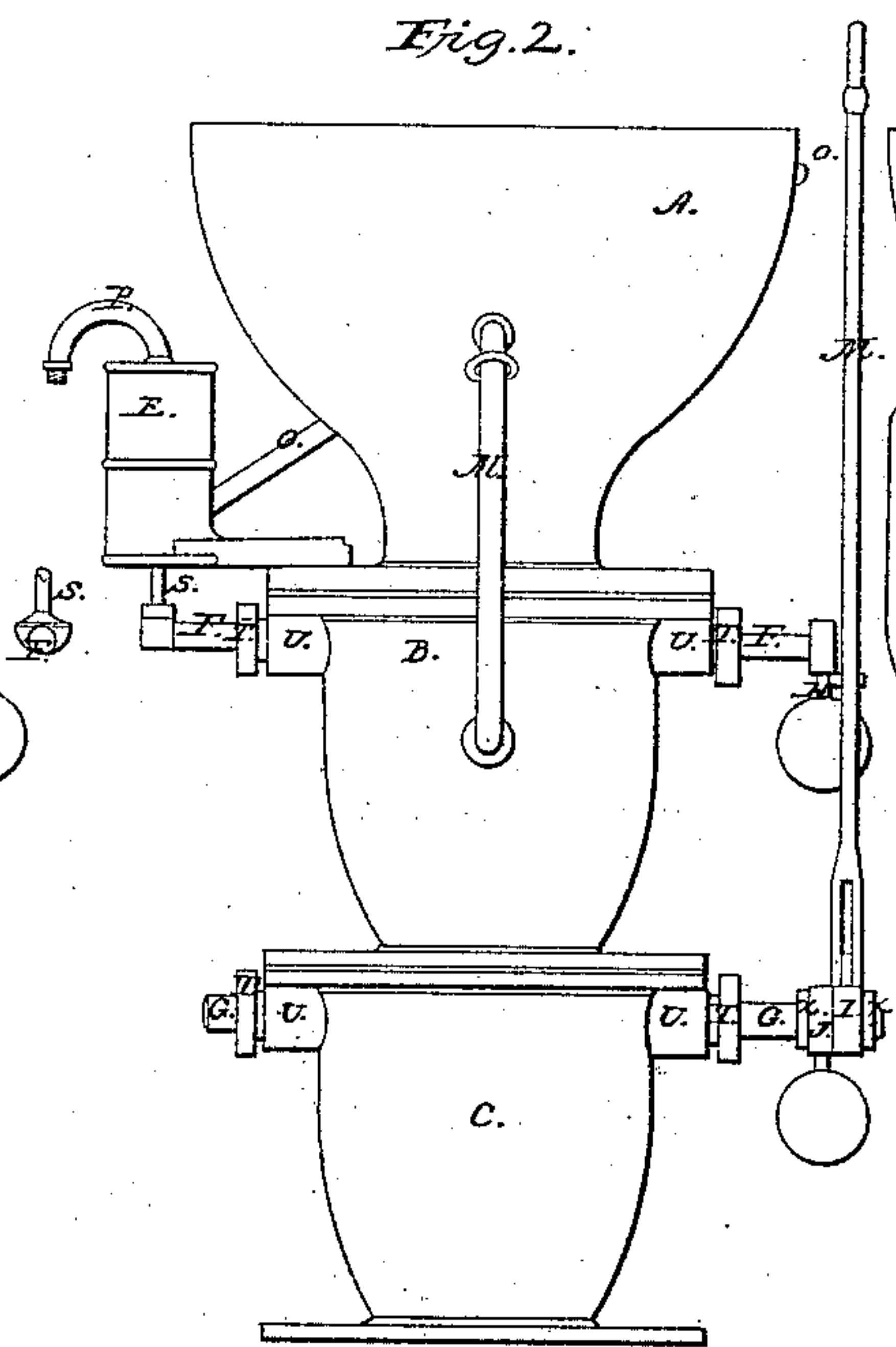


Fig. 3.

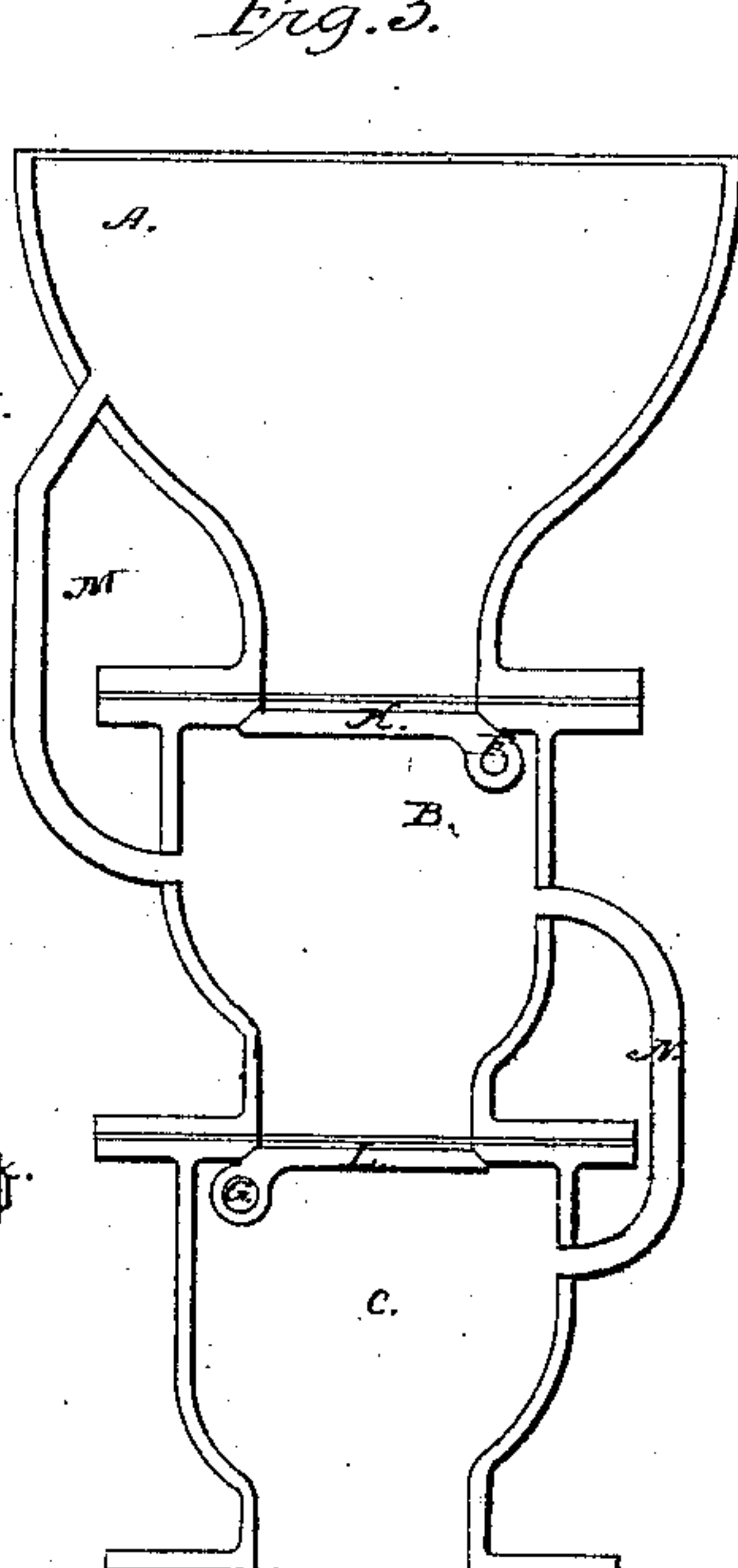


Fig. 4.

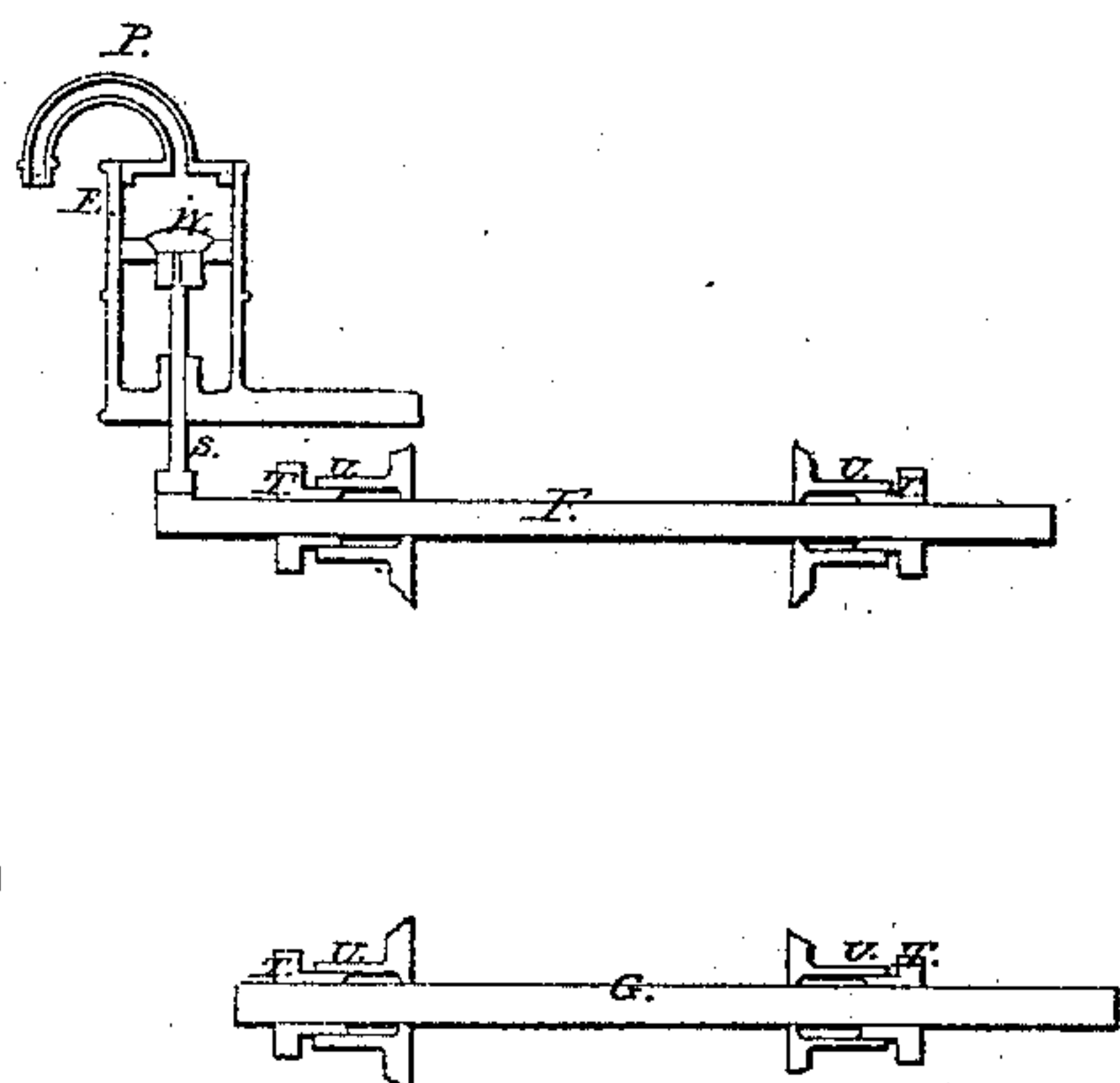
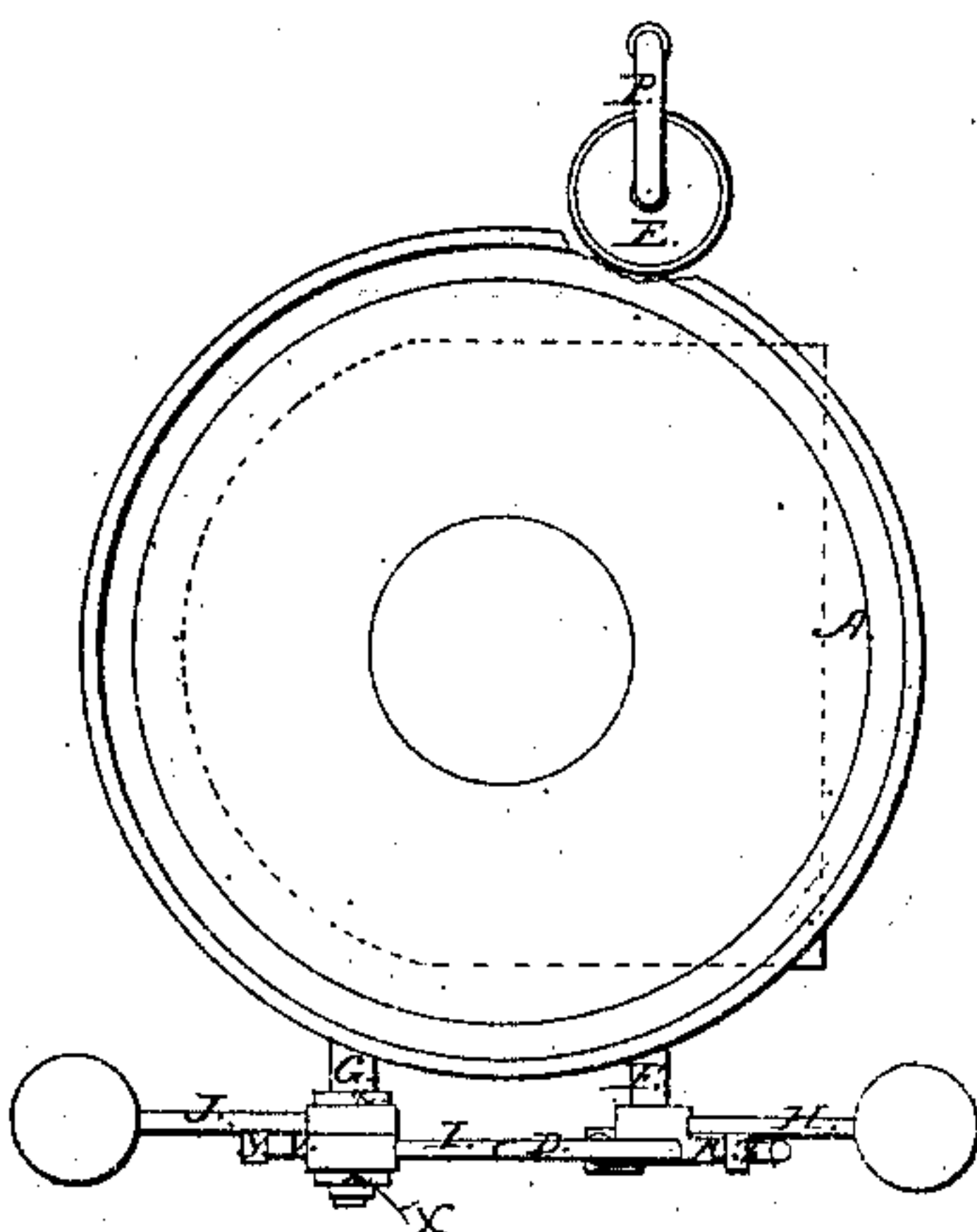


Fig. 5.

Witnesses:
G. C. Lambright.
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UNITED STATES PATENT OFFICE.

PETER W. NEEFUS, OF NEW YORK, N. Y.

IMPROVEMENT IN WATER-CLOSETS.

Specification forming part of Letters Patent No. 34,118, dated January 7, 1862.

To all whom it may concern:

Be it known that I, PETER W. NEEFUS, of the city, county, and State of New York, have invented a new and useful Improvement in Water-Closets for Ships or other Vessels; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings, making a part of this specification, in which—

Figure 1 is a side elevation. Fig. 2 is a front elevation. Fig. 3 is a vertical cross-section. Fig. 4 is a top view. Fig. 5 are details of a vertical section showing main-valve stems and rinsing-water valve.

A is the closet bowl or hopper; B, the upper-valve box; C, the lower-valve box; D, the operating handle or rod; E, the rinsing-water-valve box; F, the upper-valve stem; G, the lower-valve stem; H, the upper-valve arm and weight; I, the working-arm for moving the lower valve by means of arm J, attached to lower-valve stem; K, the upper valve; L, the lower valve; M, the overflow-pipe connecting the hopper A with the box B; N, the overflow-pipe connecting the box B with the box C; O, the rinsing-water pipe from valve-box E to the hopper A; P, the supply-pipe to valve-box E; R, arm on handle D for opening the upper valve; S, valve-stem for opening the valve W; T and U, stuffing-boxes and glands on valve-stems F and G; V, cam on arm I for moving arm J; W, valve admitting rinsing-water; X X, collars on shaft G to guide the arms I and J; Y, lifting-pin on arm J, and Z lifting-pin on arm H.

To enable others skilled in the art to make and use my invention, I herewith describe its mode of construction and operation.

I use my closet bowl or hopper and my valve-boxes of any of the ordinary forms. I then place them as is shown by Fig. 3. The valve-stems are then fitted and properly secured to the valves by set-screws, or they may be all cast in one piece. The stuffing-boxes and glands are then to be properly adjusted. The arm H is then secured to valve-stem F in such position that its weight will close the valve on F. The arm J is then fastened on the valve-stem G in such position as to close the valve. The arm I is then

fitted on the stem G, so that it will vibrate freely and be kept in its place by the collars X. The operating-rod D is then attached to the arm I by a jaw-joint or its equivalent, letting the handle rise to a convenient height above the seat and in such position as to have the arm R directly under the pin Z on arm H. The cylinder or valve-box E is then secured to the flange of the hopper A in such position as to bring the center of the stem S directly over the toes on the end of the stem F. The pipe P is supplied with water having sufficient height to force it to the top of the hopper. The pipes M, N, and O are then attached in the most convenient place. The operation is performed, when required, by simply raising the handle on rod D a sufficient height to open the valve K. In this operation the valve W is opened to admit water sufficient to rinse the hopper. The handle is then forced downward, so as to open the valve L. The contents then pass into the box C, to which is attached a discharge-pipe, which empties outside of the vessel. The handle is then left at rest, and by means of weight on arm J it is thrown back to its original position, ready for further operations.

In the place of the handle or rod D may be used means in the form of a rack working segments of wheels with teeth so as to move the valves K and L, or this may be done by a long slotted rod in place of the jaw-joint, or in any similar manner, so that the hopper can be emptied and rinsed by one operation without exposing it or the operator to the rush of sea-water or air.

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

1. Working the valves K and L and W by the handle or rod D or its equivalent, as herein recited.

2. Operating the lower valve independent of the upper one with the same handle, as described.

3. The combination of the valves K and L, rod D, rinsing-water-valve box E, and closet-bowl A, as herein set forth.

PETER W. NEEFUS.

Witnesses:

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