

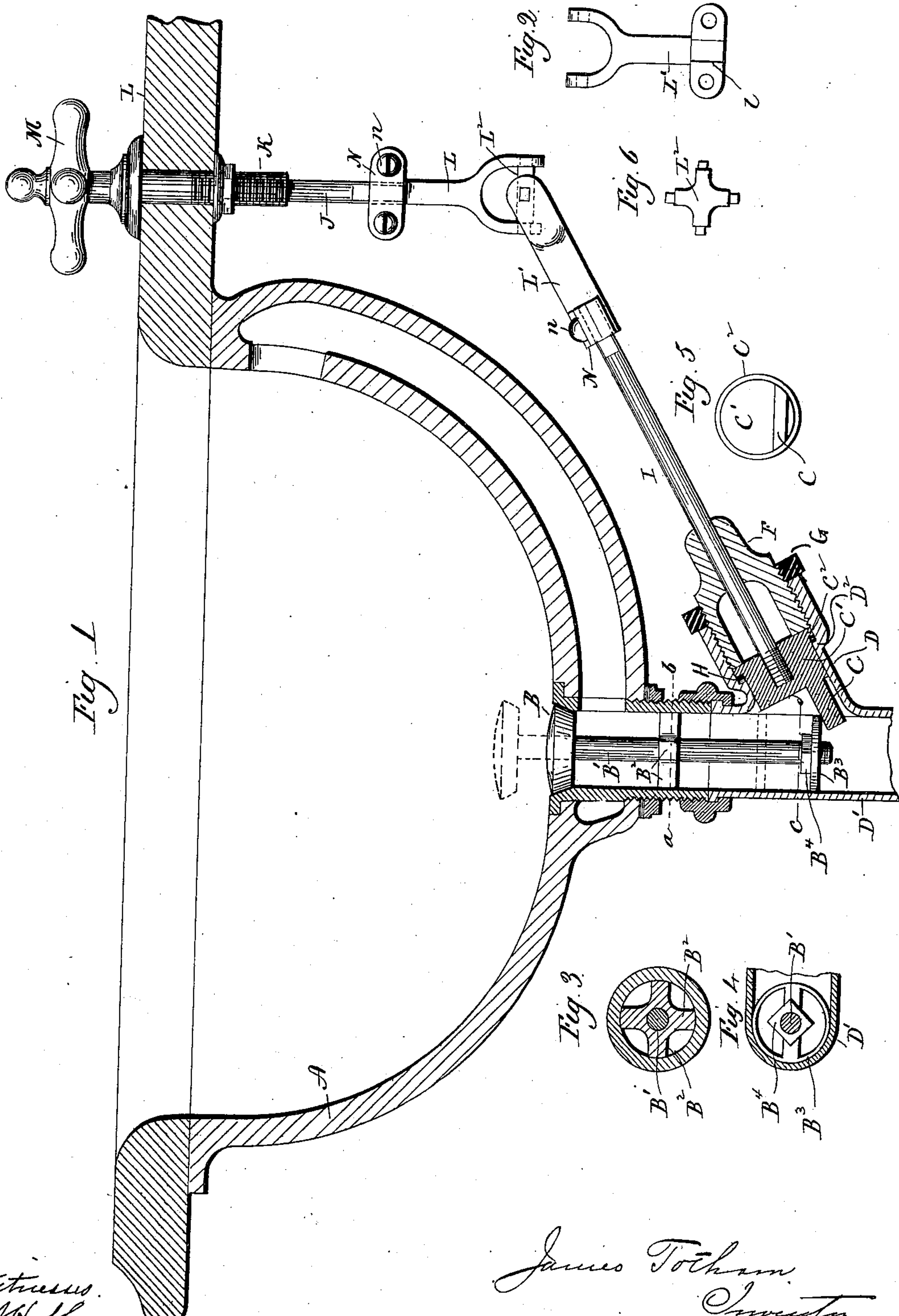
No. 629,628.

Patented July 25, 1899.

J. TOTHAM.  
WASHBASIN.

(Application filed Oct. 3, 1898.)

(No Model.)



Witnesses.  
W. H. Sherman  
William D. Kellogg

James Totham  
Inventor.  
By Atty Earl Seymour



# UNITED STATES PATENT OFFICE.

JAMES TOTHAM, OF NEW HAVEN, CONNECTICUT, ASSIGNOR TO THE PECK BROS. & COMPANY, OF SAME PLACE.

## WASHBASIN.

SPECIFICATION forming part of Letters Patent No. 629,628, dated July 25, 1899.

Application filed October 3, 1898. Serial No. 692,514. (No model.)

*To all whom it may concern:*

Be it known that I, JAMES TOTHAM, of New Haven, in the county of New Haven and State of Connecticut, have invented a new Improvement in Washbasins; and I do hereby declare the following, when taken in connection with the accompanying drawings and the letters of reference marked thereon, to be a full, clear, and exact description of the same, and which said drawings constitute part of this specification, and represent, in—

Figure 1, a view in vertical section of a washbasin provided with waste-plug-operating connections constructed in accordance with my invention; Fig. 2, a detached plan view of the lower yoke or fork of the gimbal-joint with its clip removed; Fig. 3, a view in transverse section of the waste-plug on the line *a b*; Fig. 4, a corresponding view on the line *c d*; Fig. 5, a detached view of the eccentric; Fig. 6, a detached view of the coupling-piece of the gimbal-joint.

My invention relates to an improvement in washbasins, and more particularly to connections for operating the waste-plugs thereof, the object being to provide simple, durable, and effective means for the purpose named.

With these ends in view my invention consists in waste-plug-operating connections having certain details of construction and combinations of parts, as will be hereinafter described, and pointed out in the claim.

In carrying out my invention as herein shown I employ a washbasin A, of any approved construction, and provide it with a vertically-movable beveled waste-plug B, which may also be of any approved construction and which is furnished with a downwardly-projecting stem B', provided with four radial guiding-arms B<sup>2</sup>, arranged at right angles, and having its extreme lower end threaded to receive a vertically-adjustable operating-disk B<sup>3</sup>, which is locked upon it in any desired position of adjustment by means of a jam-nut B<sup>4</sup>. This disk is engaged for operation by means of an eccentric finger C, formed upon the lower end of a rotatable hub C', the upper end of which is furnished with an annular flange C<sup>2</sup>. The said eccentric finger and hub C' together form the part known in this art

under the name of the "eccentric," and I shall hereinafter employ that term, which also covers other equivalent constructions, such as a disk and pin, &c. The said eccentric is packed in an inclined position in an inclined neck or housing D, intersecting the waste-pipe D', with the upper end of which it is formed integral. The finger C of the rotatable hub C' extends downward in an inclined position into the waste-pipe D, in which it describes a circular movement, so as to exercise a clearing or freeing function. Moreover, on account of the inclined position of the finger it will not catch and retain filth of any description. The said neck or housing has its outer end internally threaded for the reception of a bushing F, which is locked in place by means of a jam-nut G, mounted upon it and which abuts against the upper and outer edge of the neck, the inner end of the bushing bearing upon a flange C<sup>2</sup> of the eccentric and against a packing-ring H, which is seated upon a shoulder D<sup>2</sup>, formed in the lower end of the neck or housing. This construction provides for packing the hub C', so that no fluid can work its way outward. Although the inclined position of the housing would make it to a large extent self-clearing, the hub C, which is located in its lower end, so closes it that there is substantially no opportunity for any filth or foulness to enter and accumulate in it. The said hub C' is rotated for the elevation and depression of the plug B by means of an inclined rod I, upon the lower end of which it is mounted and which has bearing in the outer end of the bushing F. A vertically-arranged rod J, mounted in a bushing K, located in the slab L, and furnished at its upper end with a handle M, is at its lower end connected with the rod I by means of a gimbal-joint. For the purpose of this connection I may employ a gimbal-joint of any approved construction, that herein shown consisting of an upper yoke or fork L, a corresponding lower yoke or fork L', and a four-armed coupling-piece L<sup>2</sup>, the outer ends of the arms of which terminate in trunnions which work in suitable holes formed in the ends of the arms of the yokes. By preference the said rods I and J are adjustably connected with the said



yokes by means of clips N, secured in place by screws n. For the purpose of this adjustable connection the upper end of the rod I and the lower end of the rod J are flattened 5 to permit them to enter grooves l, formed in the yokes.

By arranging the neck or housing D at an acute angle with respect to the waste-pipe D' I am enabled to locate the eccentric in such 10 a position that its obstruction of the pipe D' is reduced to the minimum. Furthermore, if for any reason there is any leakage around the packing-washer D<sup>2</sup> that leakage will ordinarily be returned to the waste-pipe, where- 15 as if the neck or housing were located at a right angle to the waste-pipe the leakage would escape into the floor. I also wish to point out that the inclination of the rod I secures an economy of space and enables the 20 coupling between the two rods to be effected by a single gimbal-joint.

I would have it understood that I do not limit myself to the exact construction herein shown and described, but hold myself at liberty 25 to make such changes and alterations as fairly fall within the spirit and scope of my invention. I am aware, however, that a washbasin having its waste-plug operated by means of a lifting instrumentality located 30 within an inclined housing is old, and also that it is old to operate the waste-plug of a washbasin by means of a finger located eccentrically to a hub mounted upon a rotatable shaft or rod to which movement is communicated from an operating-handle, and do 35 not, therefore, claim either of those constructions broadly.

Having fully described my invention, what I claim as new, and desire to secure by Letters 40 Patent, is—

The combination with a washbasin, of a waste-plug therefor, a waste-pipe into which the said waste-plug extends, an inclined housing intersecting the said waste-pipe and formed 45 within its lower end with an annular bearing-shoulder, an eccentric located within the lower end of the said housing and consisting of a hub provided at its outer end with a flange and closing the said end of the housing so as to prevent the entrance therein of any filth 50 from the waste-pipe, and also consisting of a finger extending inward from the hub in position to coact with the lower end of the plug, a bushing entered into the housing, projecting upward in an inclined position from the 55 outer end thereof, and extending inward for engagement with the said flange of the hub, a packing-washer located between the flange of the hub and the said bearing-shoulder of the housing, an inclined operating-rod having a 60 long bearing in the outer end of the said bushing and entering the said hub, a vertically-arranged handle-rod, a handle located at the upper end thereof, and a universal connection between the lower end of the handle-rod 65 and the upper end of the said inclined operating-rod, whereby the hub is rotated for the coaction of its finger with the plug by turning the handle in either direction, the inclination of the operating-rod and the employment of a universal connection between the 70 upper end of the same and the lower end of the handle-rod securing an economy of space.

In testimony whereof I have signed this specification in the presence of two subscribing witnesses. 75

JAMES TOTHAM.

Witnesses:

LILLIAN D. KELSEY,  
FRED. C. EARLE.