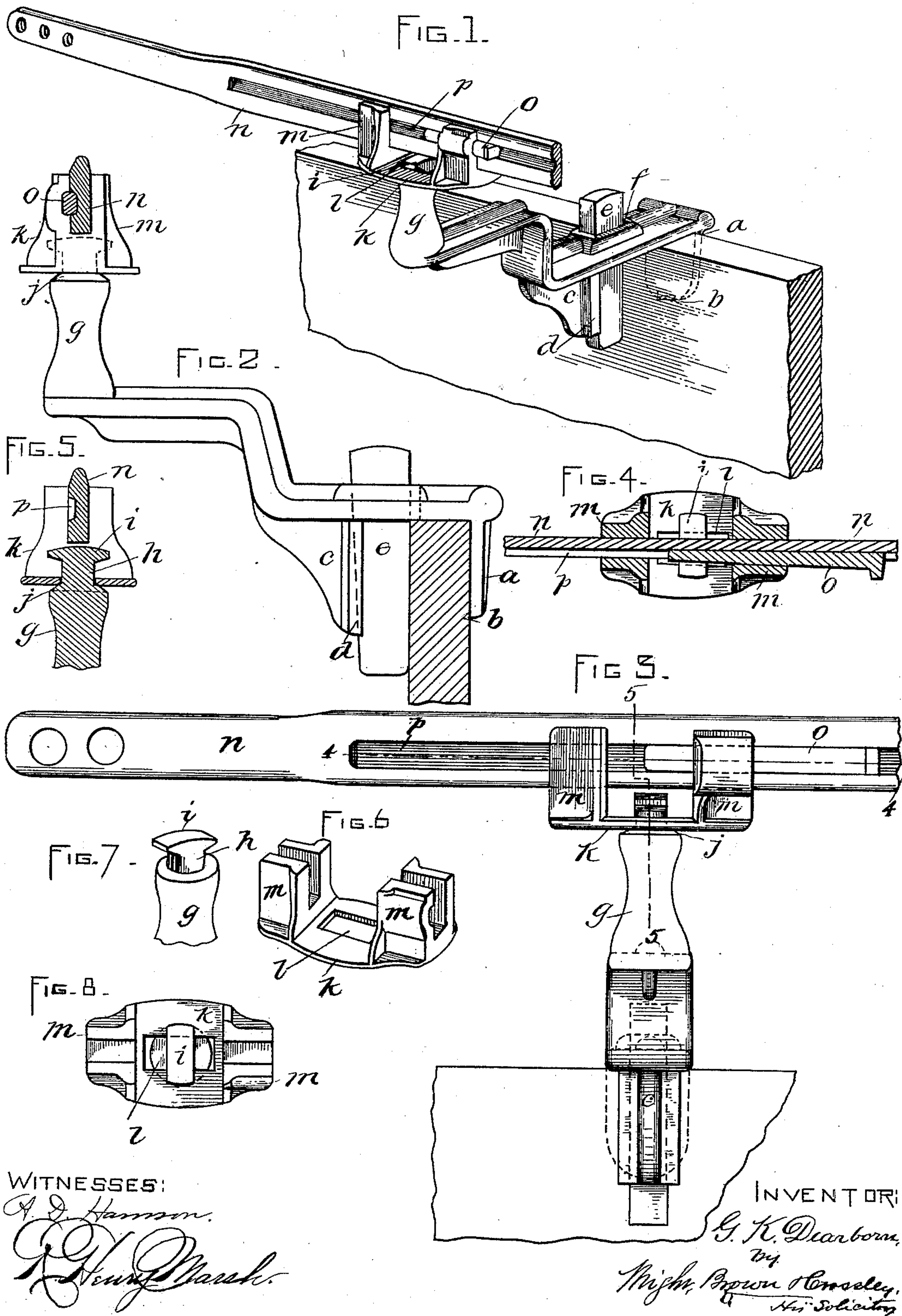


(No Model.)

G. K. DEARBORN.  
LEVER SUPPORT FOR WATER CLOSET TANKS.

No. 465,839.

Patented Dec. 29, 1891.





# UNITED STATES PATENT OFFICE.

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## LEVER-SUPPORT FOR WATER-CLOSET TANKS.

SPECIFICATION forming part of Letters Patent No. 465,839, dated December 29, 1891.

Application filed March 31, 1891. Serial No. 387,141. (No model.)

*To all whom it may concern:*

Be it known that I, GILBERT K. DEARBORN, of Somerville, in the county of Middlesex and State of Massachusetts, have invented certain new and useful Improvements in Lever-Supports for Water-Closet Tanks, of which the following is a specification.

My invention has relation to devices employed in and upon water-closet tanks; and it has for its object the provision of improved means for supporting and adjusting the valve-operating lever, as also improved means for securing the lever-supporting bracket to the tank.

My invention consists of the improvements hereinafter particularly described, and pointed out in the appended claims, reference being had to the annexed drawings, and the letters marked thereon, forming a part of this specification, the same letters designating the same parts or features, as the case may be, wherever they occur.

Of the said drawings, Figure 1 is a perspective view of my invention represented as applied to the side of a tank, a portion of the lever being shown as broken off. Fig. 2 is an end view of the same. Fig. 3 is a side view of the same. Fig. 4 is a sectional view taken on the line 4 4 of Fig. 3. Fig. 5 is a transverse sectional view taken on the line 5 5 of Fig. 3. Fig. 6 is a perspective view of the lever-supporting shoe. Fig. 7 is a perspective view of the top of the standard upon which the shoe is directly supported and upon which it is adapted to turn and rock. Fig. 8 is a top plan view of the shoe and supporting standard.

In the production of my invention I construct a bracket adapted at one end or point to rest upon the upper edge of the tank, and having a leg or part *a*, constructed and arranged to extend down outside of the tank, and being by preference provided on its lower end with an inwardly-extending prod or sharp toe *b*, adapted to sink into the side of the tank. A leg or part *c* extends down from the bracket on the inside of the tank, and is provided on its inner side or face with a suitable bearing *d* for one side of a wedge *e*, which may be driven through an aperture *f*, formed in the bracket for the purpose of

wedging and holding the latter upon the edge or side of the tank, as is clearly shown in Figs. 1 and 2. The side of the wedge opposite that resting against the bearing *d* will bear against the inner side of the tank. The inner end of the bracket is provided with a standard *g*, on the upper end of which is a stud *h*, having an elongated head *i*. The standard *g*, at its point of juncture with the stud *h*, is provided with a rounded shoulder *j*, so that the shoe *k*, provided at a central point with an elongated aperture *l* for the reception of the stud and its head, when resting upon the said shoulder, may have a limited rocking motion thereon. The shoe *k* is provided on its ends with bifurcated studs or standards *m*, in which the valve-operating lever *n* is adapted to rest, one member of one of the standards being grooved on its inner face for receiving and guiding one edge of a key or wedge *o*, the other edge of the key resting in a groove *p*, formed in the side of the lever *n*.

In the use of my invention the bracket may be secured to the tank at any desired point by means of the wedge *e* and leg *a* and its toe *b*. The head of the stud *h* will be passed through the aperture *l* of the shoe *k*, and the latter will be turned so as to button, as it were, the shoe upon the rounded shoulder of the standard *g*, as is most clearly shown in Fig. 8. The lever *n* will then be keyed in the bifurcated projections of the shoe by means of the key *o*.

By dispensing with screws in securing the bracket to the tank a material saving of expense is effected, and besides this the device can be securely affixed in position with the utmost expedition.

The means whereby the lever is rendered adjustable with respect to its fulcrum is also an important feature of the invention, since this adjustment can be made with the greatest nicety, and so adapt the contrivance to varying circumstances and varying positions of valves.

It is obvious that changes may be made in the form and arrangement of parts comprising my improvements without departing from the nature or spirit of the invention.

Having thus explained the nature of my invention and described a way of construct-



ing and using the same, though without attempting to describe all the forms in which it may be made or all of its modes of use, I declare that what I claim is—

5 1. A support for valve-operating levers for water-closet tanks, consisting of a bracket having a leg *a*, extending down on the outside of the tank, and a leg *c*, provided with a bearing *d*, the bracket having a wedge-receiving  
10 aperture *f* adjacent to the leg *c*, and a lever-support, as set forth.

2. A support for valve-operating levers for water-closet tanks, consisting of a bracket adapted to be secured to the tank and pro-  
15 vided with a standard *g*, having a stud *h* and head *i*, and rounded shoulder *j*, combined with a lever-supporting shoe *k*, provided with an aperture *l* for the reception of said head and

stud, arranged to rest upon the said shoulder, as set forth. 20

3. The combination, with the lever-supporting bracket, of the shoe *k*, loosely connected with the said bracket and having a limited rocking movement thereon, the said shoe being provided with bifurcated studs or stand- 25  
ards *m*, the lever *n*, arranged in the said bifurcations, and the wedge *o* for securing the said lever in place on the shoe, as set forth.

In testimony whereof I have signed my name to this specification, in the presence of two 30  
subscribing witnesses, this 28th day of March, A. D. 1891.

GILBERT K. DEARBORN.

Witnesses:

ARTHUR W. CROSSLEY,  
A. D. HARRISON.