

(No Model.)

J. A. & G. M. BOWER.
PIPE HOLDER.

No. 552,951.

Patented Jan. 14, 1896.

Fig. 1.

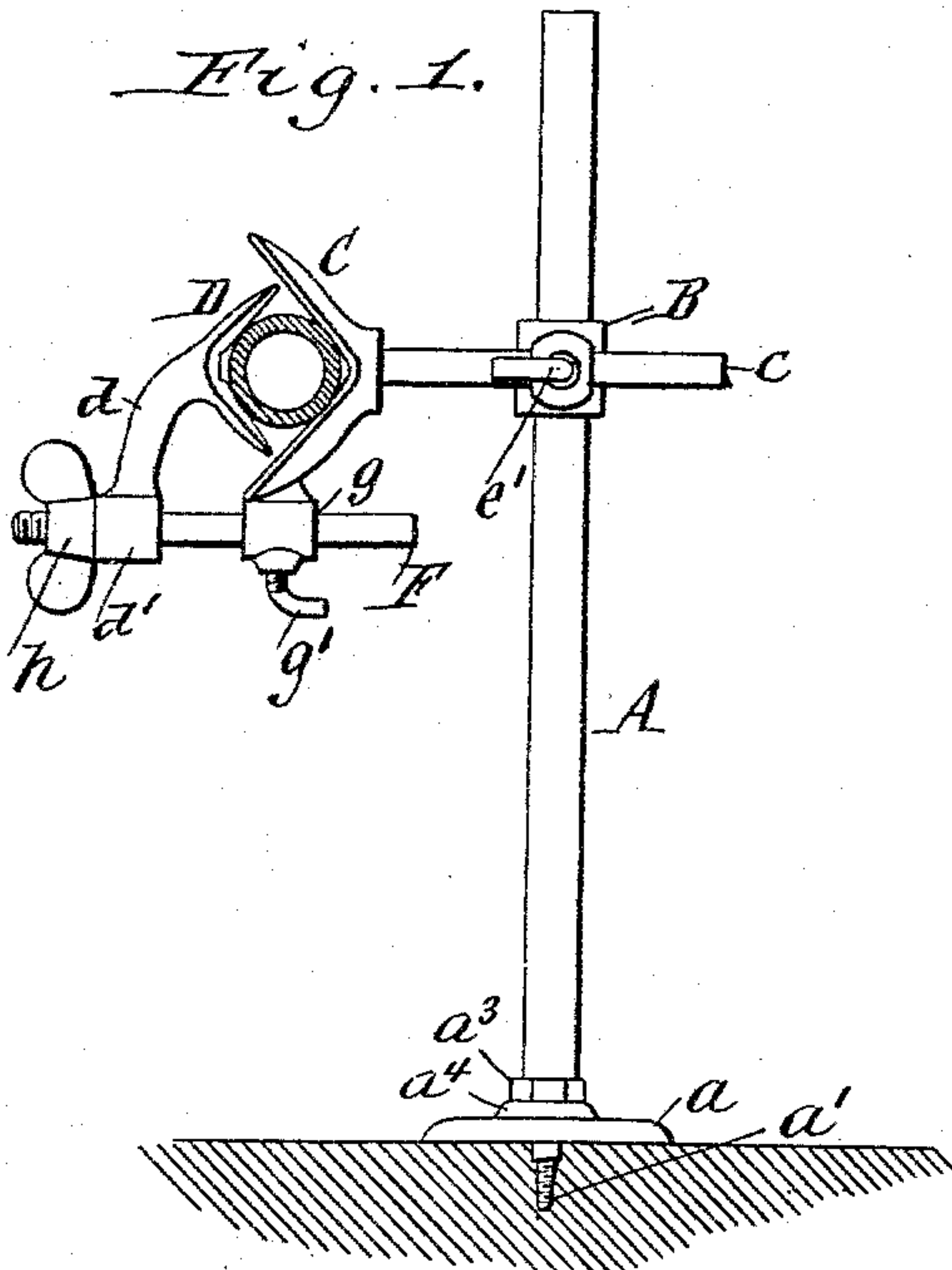


Fig. 2.

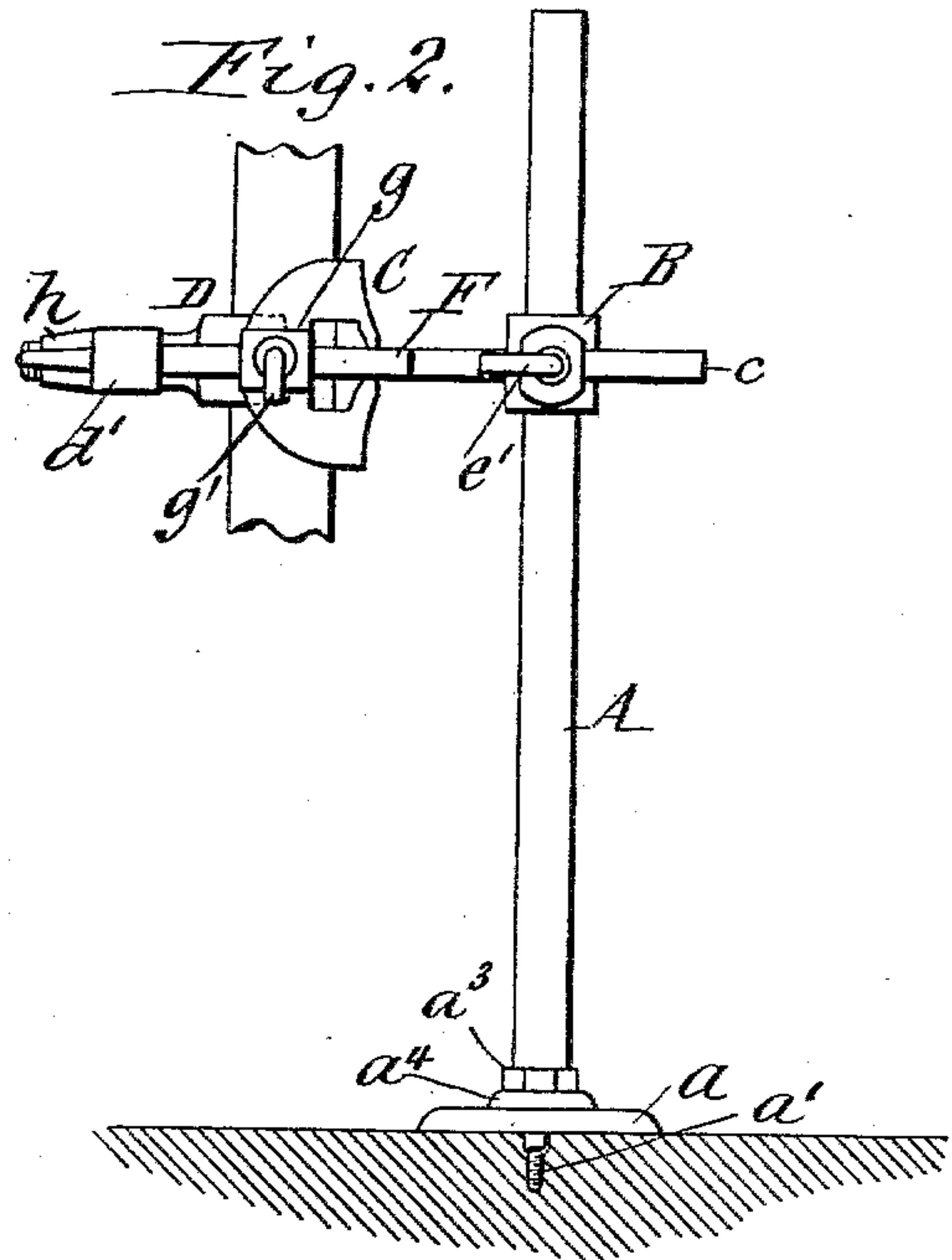


Fig. 4.

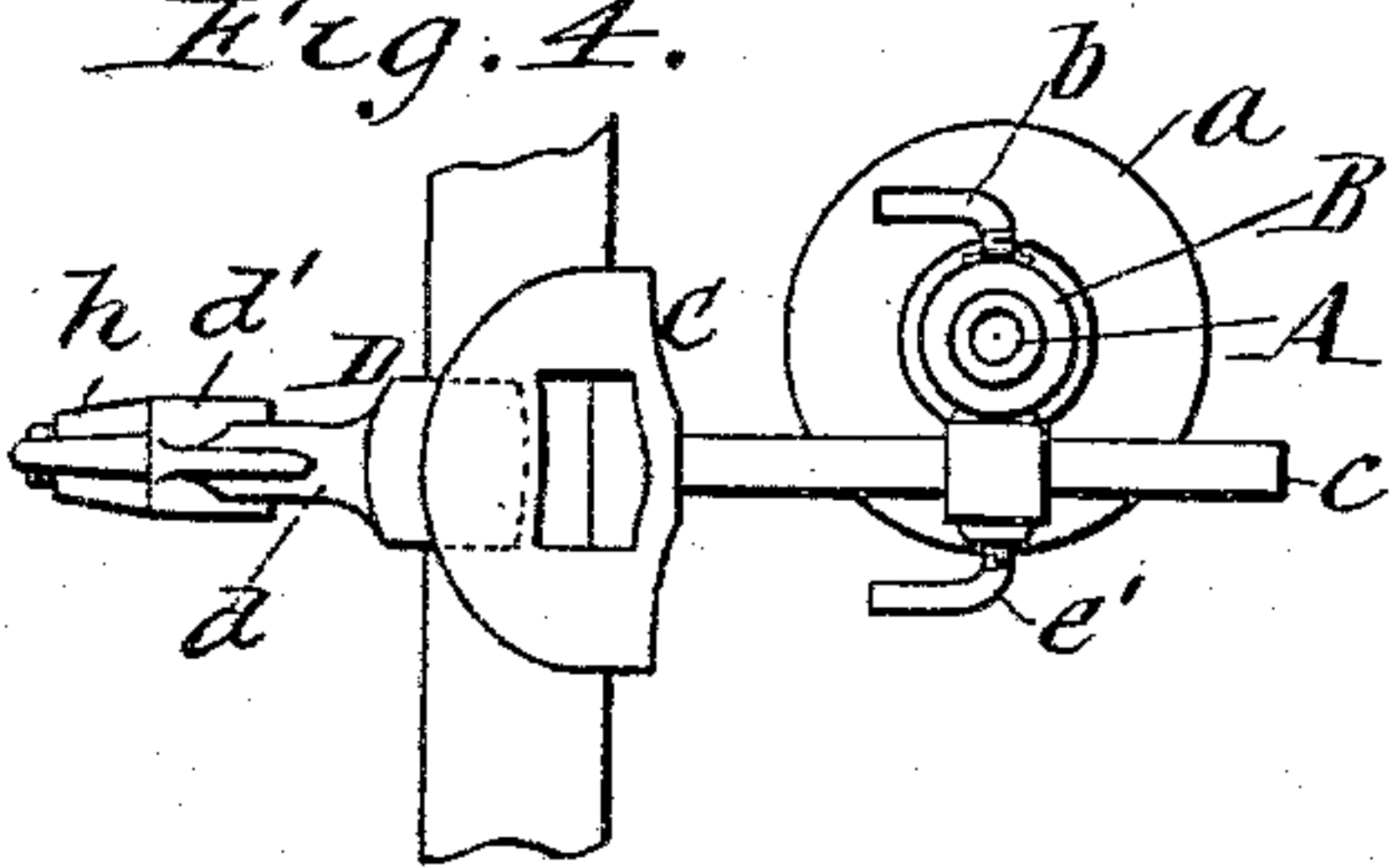


Fig. 3.

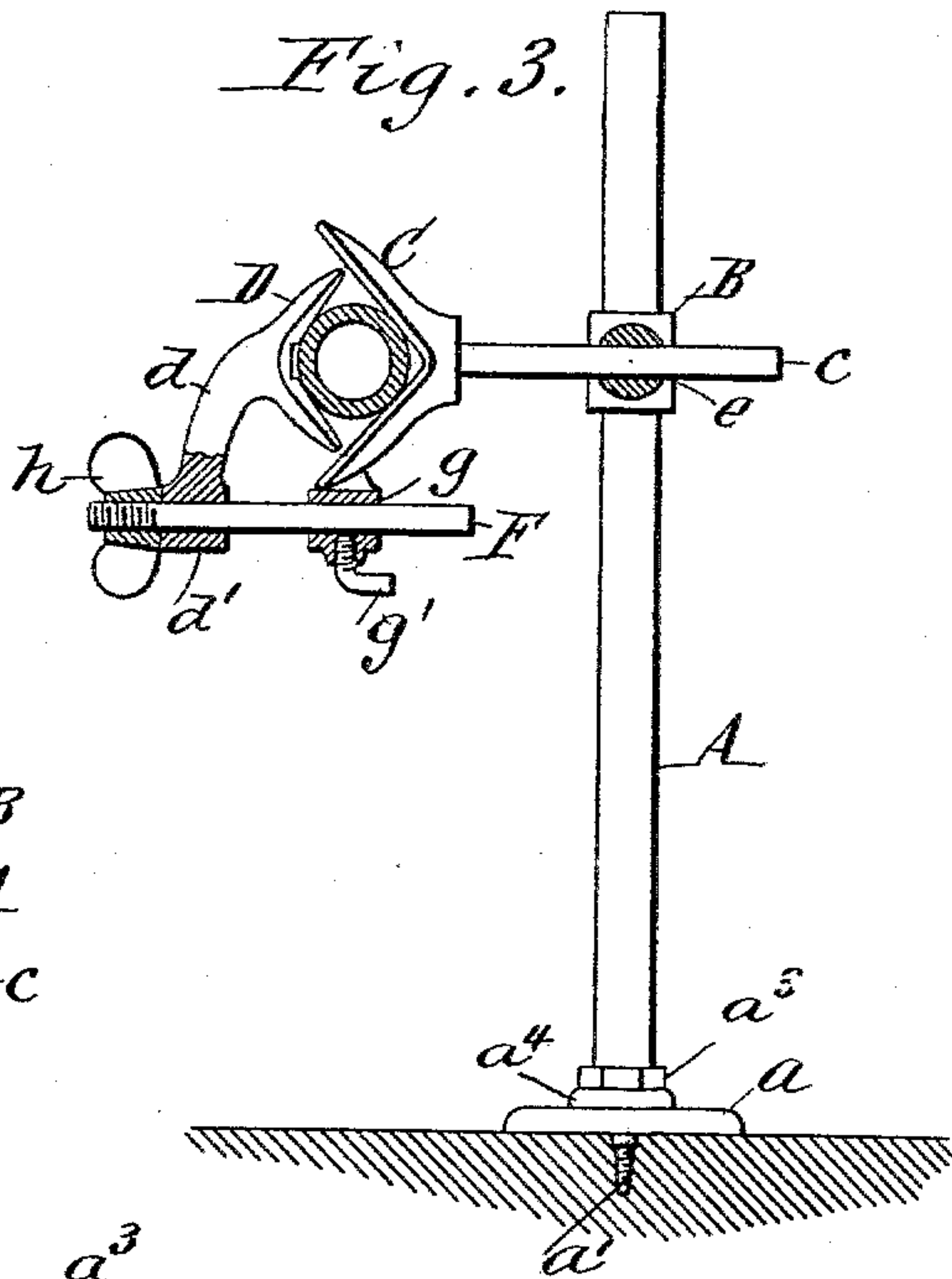


Fig. 5.

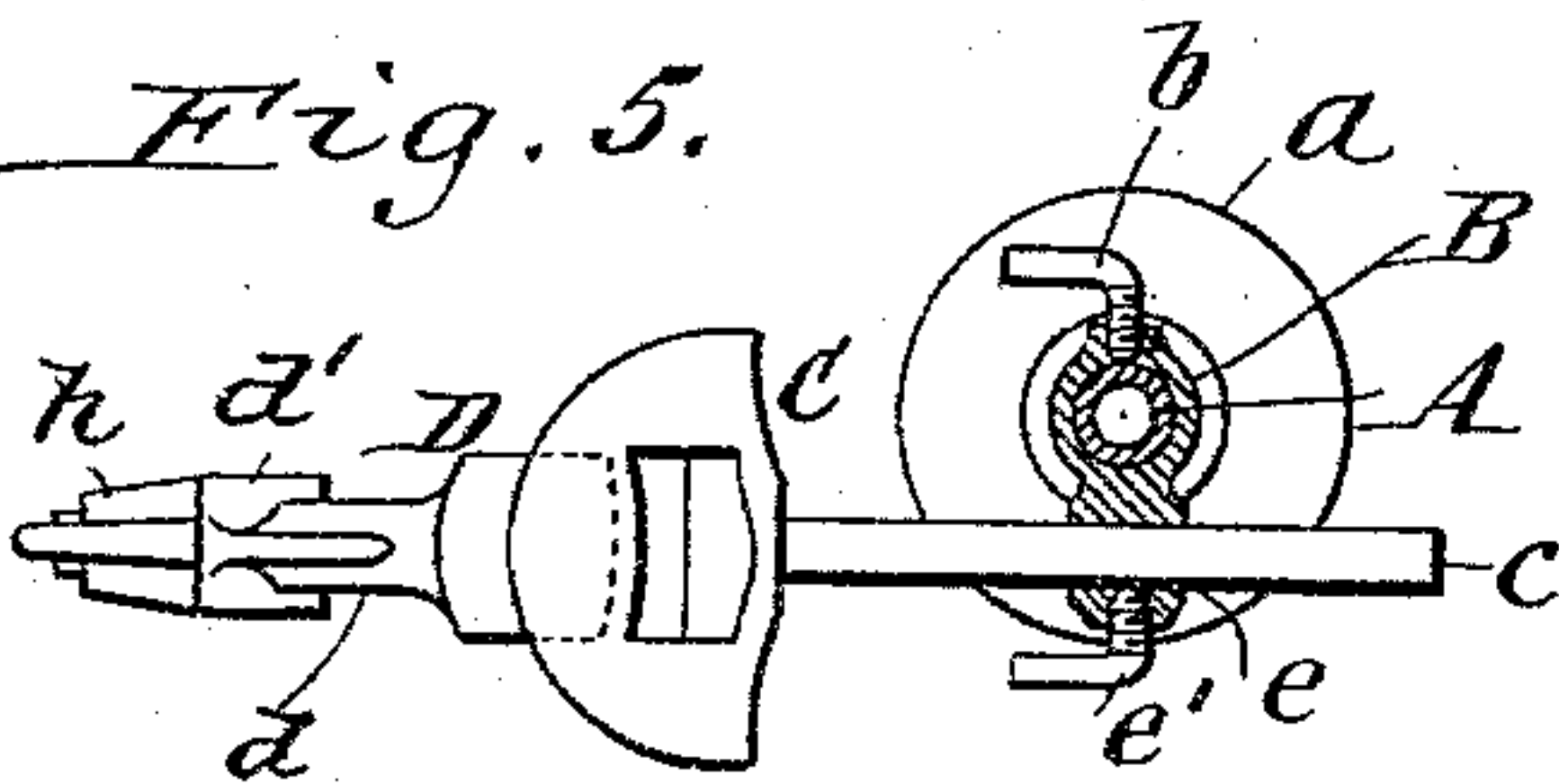
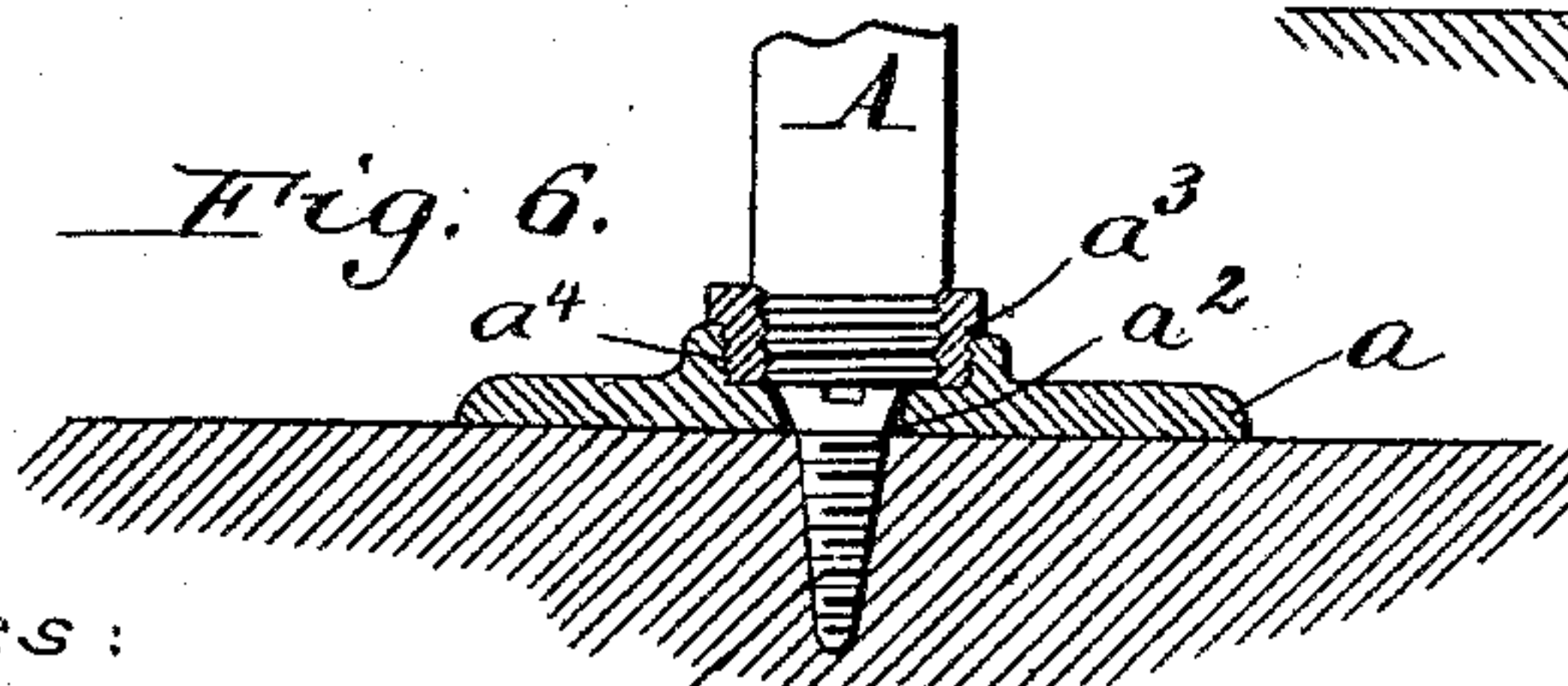


Fig. 6.



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UNITED STATES PATENT OFFICE.

JOHN A. BOWER AND GEORGE M. BOWER, OF BUFFALO, NEW YORK.

PIPE-HOLDER.

SPECIFICATION forming part of Letters Patent No. 552,951, dated January 14, 1896.

Application filed April 12, 1895. Serial No. 545,549. (No model.)

To all whom it may concern:

Be it known that we, JOHN A. BOWER and GEORGE M. BOWER, citizens of the United States, residing at Buffalo, in the county of Erie and State of New York, have invented a new and useful Improvement in Pipe-Holders, of which the following is a specification.

This invention relates to a holder designed more especially for the use of plumbers for holding a pipe in position in making a wipe-joint or for any other purpose.

Our invention has for its object to produce a convenient holding device of this character which can be quickly clamped to a pipe and which can be readily adjusted to the position of the pipe.

In the accompanying drawings, Figure 1 is a side elevation of our improved holder, showing the clamp adjusted to receive a horizontal pipe. Fig. 2 is a similar view showing the clamp adjusted to a vertical pipe. Fig. 3 is a sectional elevation of the holder as shown in Fig. 1. Fig. 4 is a top plan view of the same. Fig. 5 is a similar view showing the main adjusting-sleeve and the socket carried by the same in horizontal section. Fig. 6 is an enlarged sectional elevation of the base of the standard.

Like letters of reference refer to like parts in the several figures.

A represents a post or standard carrying the parts of the holder and designed to be temporarily secured to the floor, a wall or other support. The standard is provided at its lower end with a base plate or flange *a* and an attaching-screw *a'*. This screw is preferably made removable, as shown in Fig. 6 of the drawings, so that it may be readily renewed when worn out or broken. The base-plate is for this purpose formed with a central opening *a²*, in which the head of the screw, which is preferably an ordinary wood-screw, is seated, and the screw is held in place by the lower end of the standard which is screwed into an internally and externally screw-threaded bushing *a³*, which is in turn screwed into an internally-threaded socket *a⁴* formed in the upper side of the base-plate *a*. Upon unscrewing the standard from this bushing the attaching-screw can be removed and replaced by a new one.

B is a sleeve or collar made vertically ad-

justable on the standard A and carrying the clamping device which grasps the pipe. This sleeve is provided with a set-screw *b*, whereby it is secured in place after adjusting it to the desired elevation.

The pipe-clamp consists of an inner jaw C and an outer jaw D, which is movable toward and from the inner jaw. The inner jaw is provided with a horizontal stem or shank *c*, which is adjustably secured in a socket *e* arranged on the vertically-adjustable sleeve B, the stem being adjustably held in position by a set-screw *e'* arranged in a screw-threaded opening formed in the socket *e* and bearing against the stem. The outer jaw D is supported by a shifting rod F, which is longitudinally movable in a socket *g* arranged on one side of the relatively-fixed inner jaw C, and which is secured in said socket by a set-screw *g'*. The outer jaw has an arm or shank *d* provided at its inner or lower end with a hub or collar *d'*, which is capable of sliding upon the shifting rod F toward and from the socket *g*.

h is a clamping or thumb nut applied to the externally screw-threaded outer portion of the shifting rod F and adapted to bear against the sliding hub of the outer jaw, so as to clamp the latter against the pipe placed between the two jaws.

In using our improved holder, after securing the post or standard adjacent to the pipe to be held, the jaws are placed at the desired elevation by properly adjusting the sleeve B on the standard and they are adjusted to the angle or position of the pipe by loosening the set-screw *e'* of the stem of the inner jaw, which permits the jaws to be turned to a vertical, horizontal or any intermediate position, said set-screw being again tightened after adjusting the jaws. The outer jaw is next separated from the inner jaw to receive the pipe, by loosening the set-screw *g'* of the shifting rod F and the outer jaw is then slid against the pipe and the set-screw tightened, after which the pipe is firmly clamped by tightening the thumb-nut *h*, which forces the outer jaw toward the inner jaw. The greater part of the movement of the outer jaw is thus effected by sliding the shifting rod in its socket, which can be quickly done, and the pipe is then tightly clamped by a comparatively few turns of the thumb-nut *h*. The holder is as

readily released by loosening this thumb-nut and the set-screw g' and sliding the outer jaw away from the inner jaw.

Our improved holder is a very convenient accessory, as it holds the pipe reliably in place and gives the plumber the free use of both hands.

We claim as our invention—

1. The combination with a post or standard and an inner jaw connected therewith, of a supporting rod arranged to slide lengthwise on the inner jaw, an outer jaw arranged to slide on said supporting rod toward and from the inner jaw, and a clamping or adjusting device whereby the outer jaw is moved on said rod toward the inner jaw, substantially as set forth.

2. The combination with a post or standard, of a sleeve made vertically adjustable on said post and having a socket provided with a set screw, an inner jaw having a shank adjustably arranged in said socket, a supporting rod arranged to slide lengthwise on said inner jaw, an outer jaw arranged to slide on said supporting rod, and a clamping or ad-

justing nut, whereby the outer jaw is moved toward the inner jaw, substantially as set forth.

3. The combination with a post or standard and an inner jaw arranged thereon, and having a socket, of a shifting rod secured in said socket, an outer jaw arranged to slide on said shifting rod, and a clamping nut applied to said shifting rod for moving the outer jaw on the same, substantially as set forth.

4. The combination with a post or standard, an inner jaw made vertically adjustable thereon and provided with a socket having a set screw, a shifting rod secured in said socket, an outer jaw having a hub arranged to slide on said shifting rod, and a thumb nut applied to said rod and bearing against the outer side of said hub, substantially as set forth.

Witness my hand this 22d day of March, 1895.

JOHN A. BOWER.

GEORGE M. BOWER.

Witnesses:

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