

No. 620,553.

Patented Feb. 28, 1899.

F. WANKEL.
SHUTTER FASTENER.

(Application filed Dec. 21, 1898.)

(No Model.)

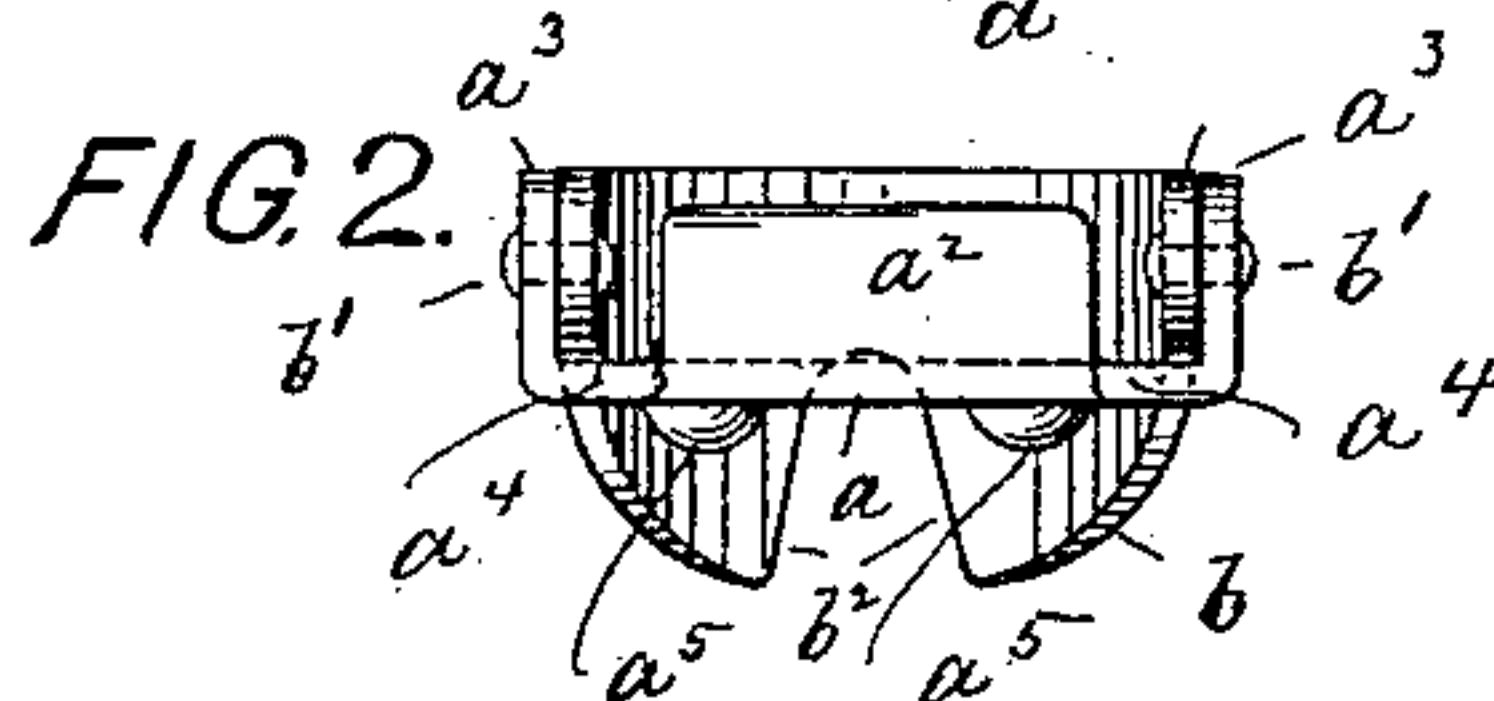
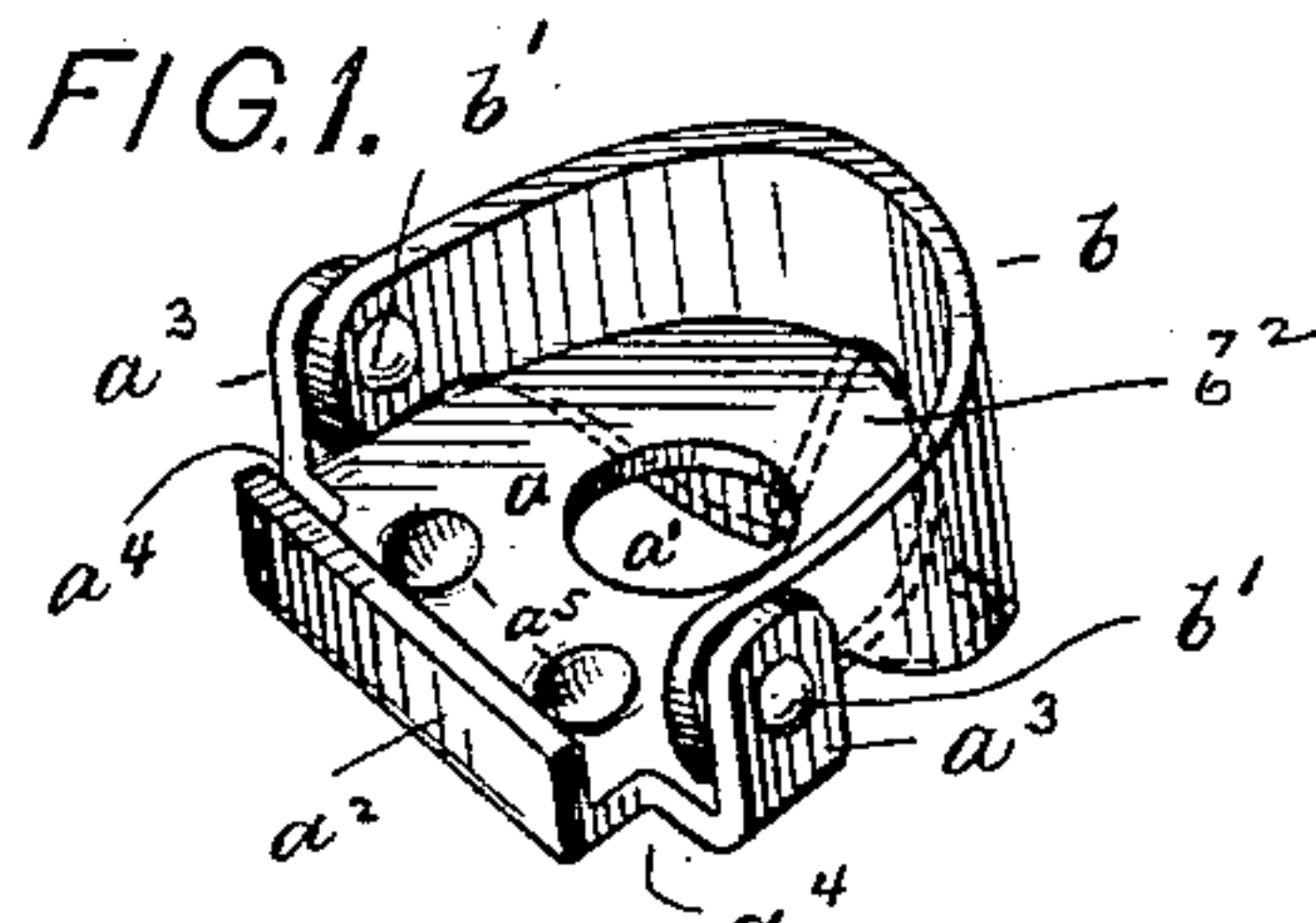


FIG. 3.

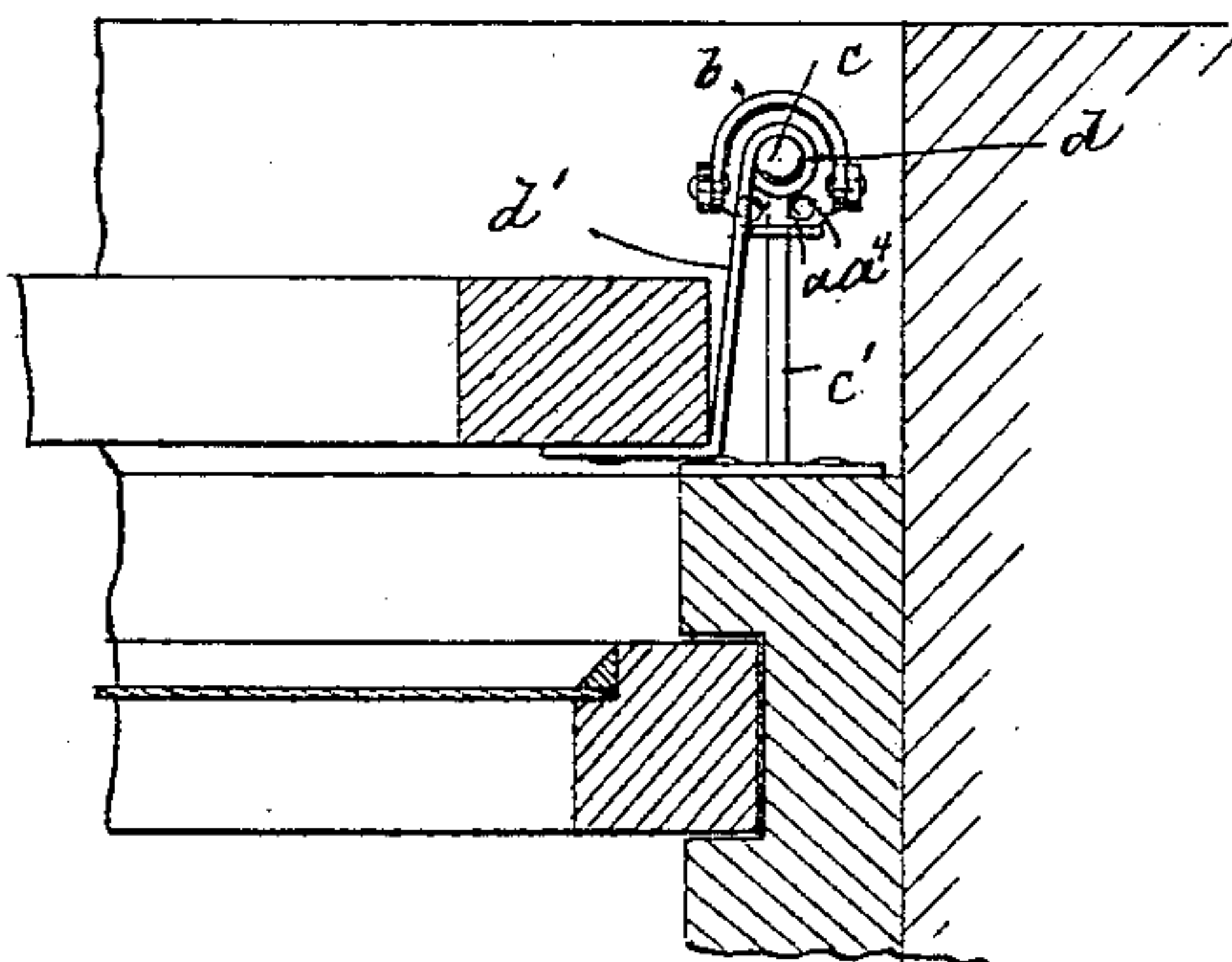


FIG. 4.

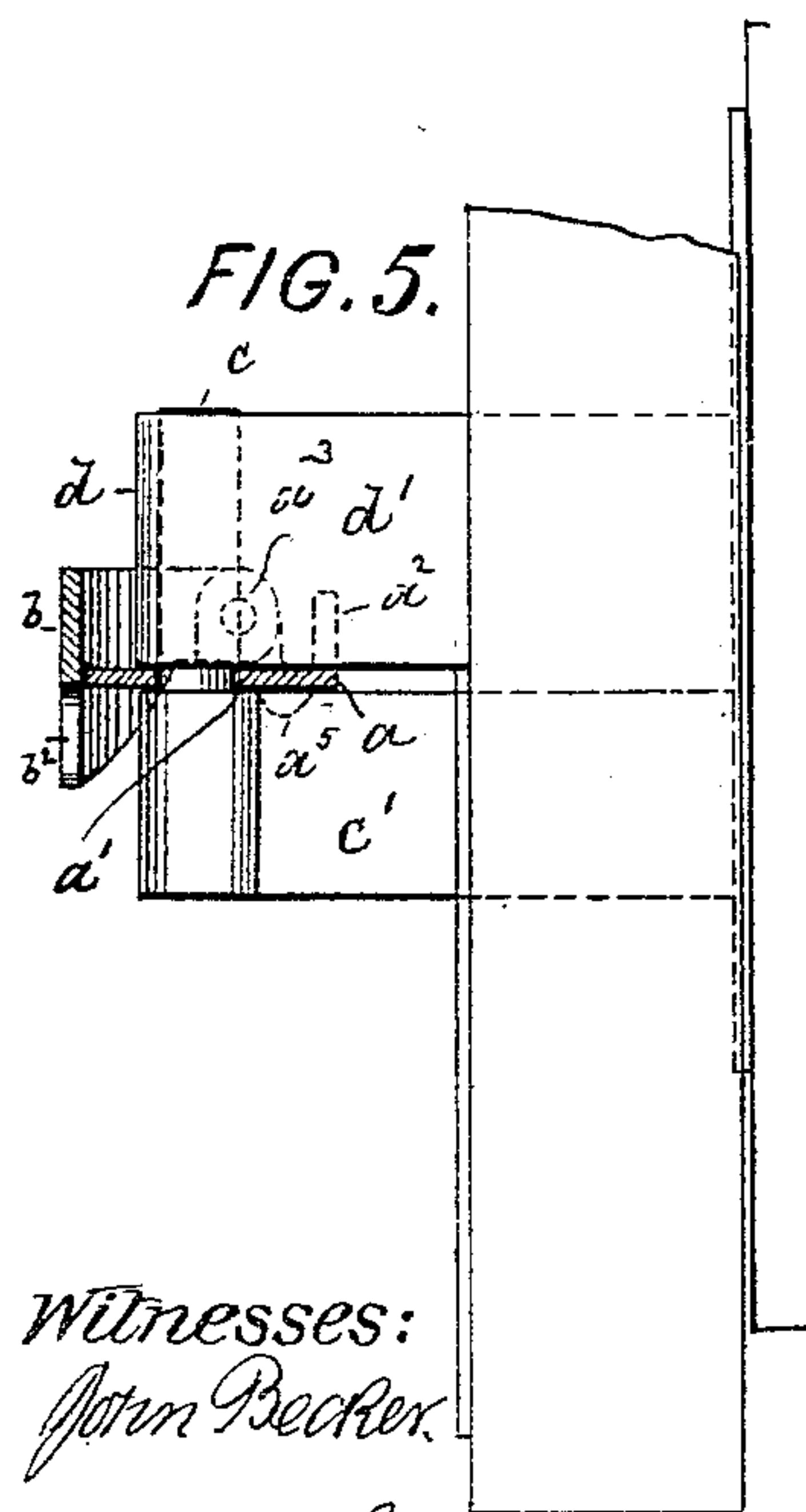
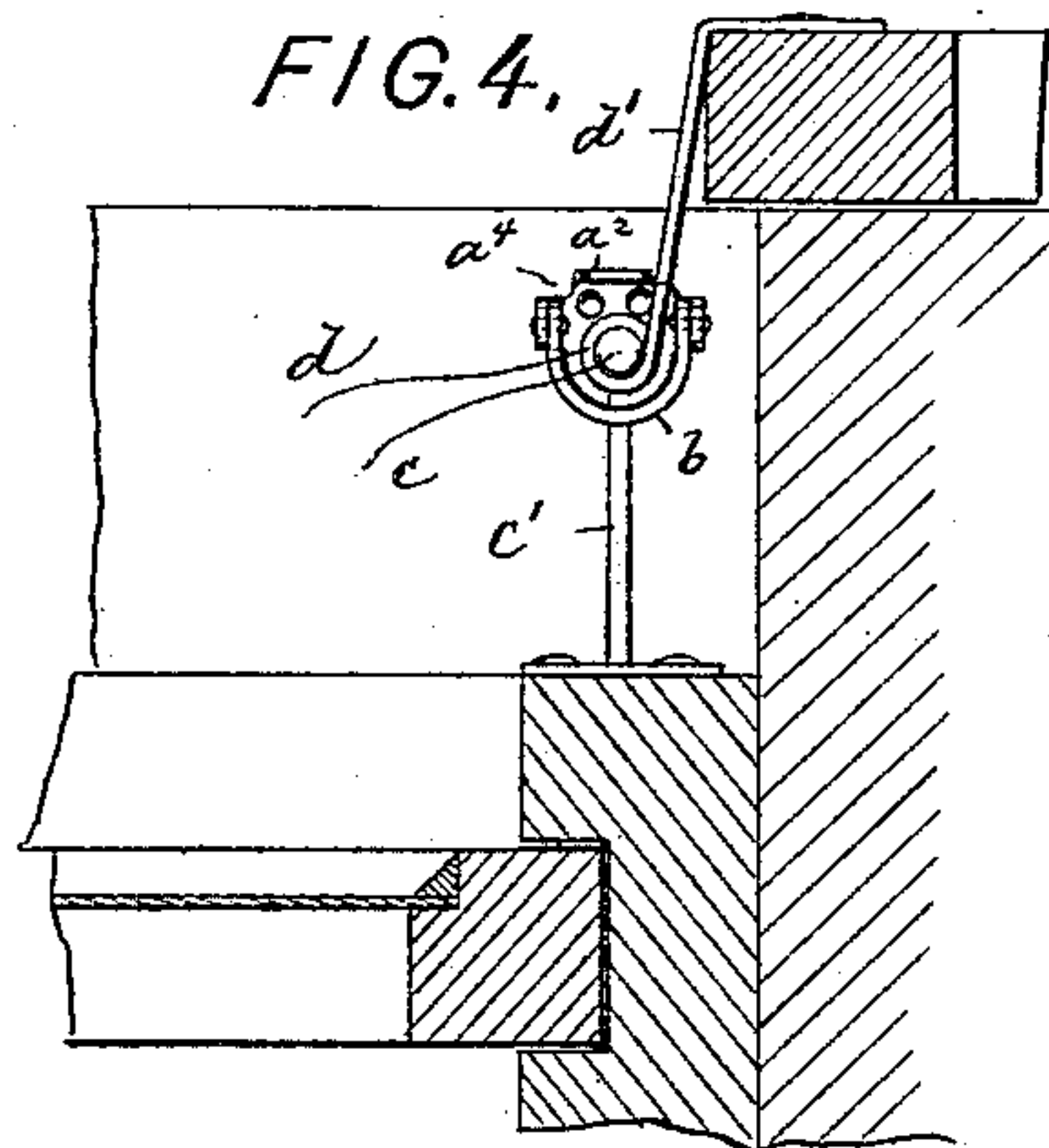
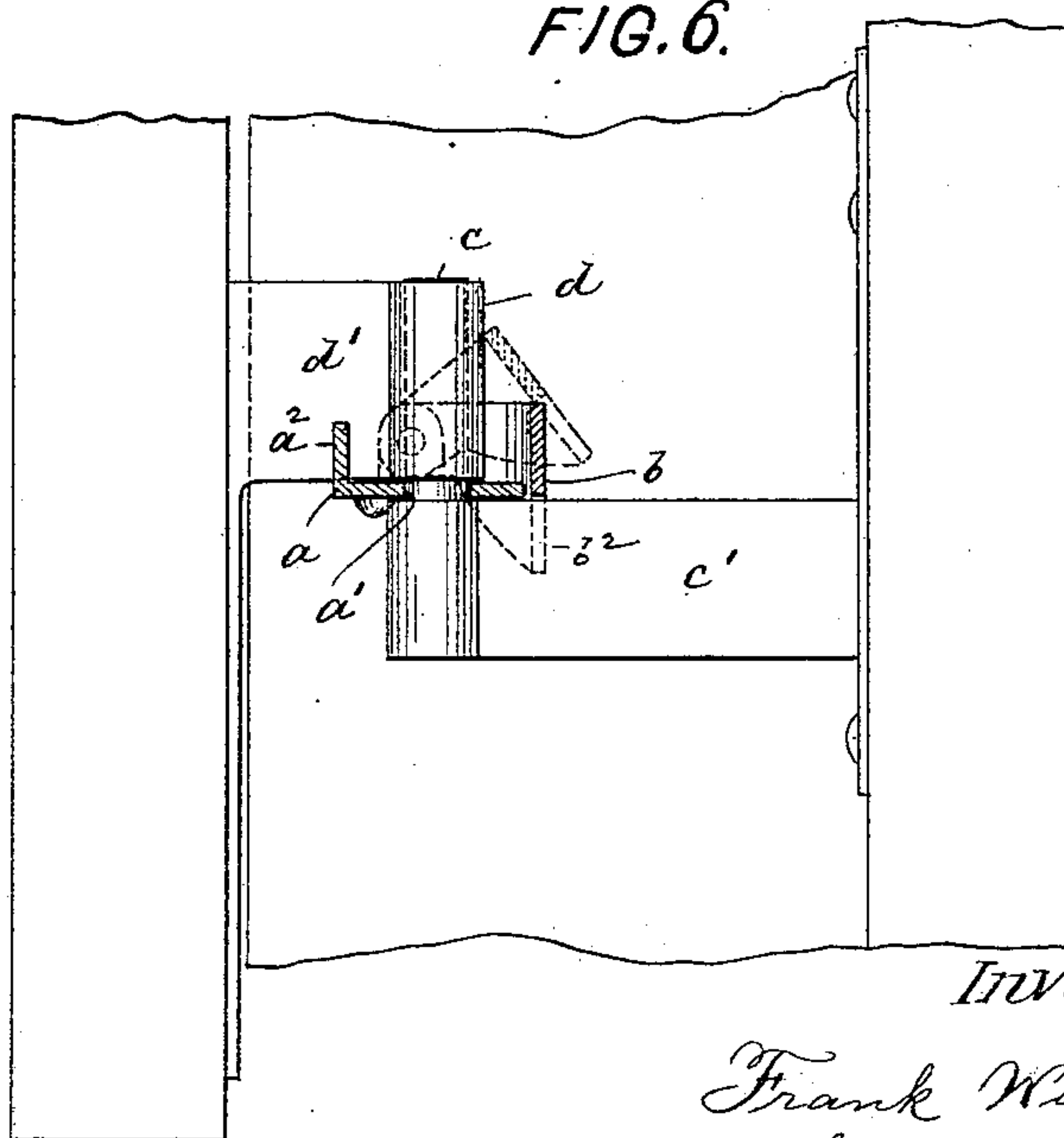


FIG. 6.



Witnesses:

John Becker.

William Schulz.

Inventor:

Frank Wankel
by his attorneys
Roeder & Briesen

UNITED STATES PATENT OFFICE.

FRANK WANKEL, OF NEW YORK, N. Y., ASSIGNOR OF ONE-HALF TO
WILLIAM GEPPERT, OF SAME PLACE.

SHUTTER-FASTENER.

SPECIFICATION forming part of Letters Patent No. 620,553, dated February 28, 1899.

Application filed December 21, 1898. Serial No. 699,896. (No model.)

To all whom it may concern:

Be it known that I, FRANK WANKEL, a citizen of the United States, and a resident of New York, (Brooklyn,) county of Kings, and State of New York, have invented an Improved Shutter-Fastener, of which the following is a specification.

This invention relates to a shutter-fastener which when slipped over the pintle of the shutter-hinge will at once become mounted in an operative position. Thus the fastener does not require any fitting or any attaching means and may be readily applied to shutter-joints of the conventional construction.

In the accompanying drawings, Figure 1 is a perspective view of my improved shutter-fastener; Fig. 2, a rear view thereof; Fig. 3, a plan of a hinge provided with my improved fastener and showing the shutter closed; Fig. 4, a similar view with the shutter open; Fig. 5, a sectional end view of the fastener mounted upon the hinge and showing the shutter closed, and Fig. 6 a similar view showing the shutter open.

The improved fastener is composed, essentially, of two pivotally-connected parts—viz., a base-plate a and a bail b . The base-plate a is perforated, as at a' , to be slipped over the pintle c of the shutter-hinge and to be supported upon the horizontal strap c' of such hinge. One edge of the plate a is rounded, while the opposite end is turned up to form a flange a^2 . At the sides lugs or bearings a^3 are also turned up, which are so spaced with relation to the flange a^2 that notches a^4 are formed between them, which are adapted to receive and lock the strap d' of the upper hinge eye or knuckle d . The bail b , pivotally connected to the bearings a^3 at b' , is of a curved shape in horizontal section and free to swing over the curved edge of plate a . The bail tapers or increases in depth uniformly from both ends toward the center, the lower edge of the bail being rounded and tapering and provided at the center, where it is of the greatest height, with a notch b^2 , adapted to engage the strap c' .

In use the shutter-fastener is mounted on the hinge-pin c and then the shutter is hung upon such pin so that the hinge-eye d rests upon plate a , while the upper hinge-strap d' settles into one of the notches a^4 . When the shutter is closed, Figs. 3 and 5, the bail b projects outwardly beyond the hinge and the

shutter remains unlocked. If the shutter is thrown open, by being revolved one hundred and eighty degrees it will, by the engagement of the parts d' a^4 , carry the fastener with it. Thus the lower curved and tapering edge of the bail will ride over arm c' and will be gradually swung up until the notch b^2 arrives in vertical alinement with such arm, when the bail will drop and grasp the arm to securely lock the shutter in its open position, Figs. 4 and 6. To close the shutter, the bail b is raised (dotted lines, Fig. 6) to liberate the arm c' , when the shutter may be swung inward, as usual.

A pair of small bulges or teats a^5 may depend from plate a , which will embrace the arm c' when the shutter is closed and thus aid somewhat in holding the shutter in its closed position.

The object of forming two notches a^4 on the plate a is to adapt the same fastener to both the right and left shutter; but manifestly one notch only will be operative on each fastener, while the other notch remains inert.

What I claim is—

1. A shutter-fastener, composed of a perforated notched base-plate, and of a notched bail pivotally connected to said base-plate, substantially as specified.

2. A shutter-fastener, composed of a perforated notched base-plate and a bail pivoted thereto, and having a notched and tapering lower edge, substantially as specified.

3. A shutter-fastener, composed of a perforated base-plate having a flanged edge and upwardly-turned lugs to form an intervening notch or notches, and of a tapering notched bail pivoted to said lugs, substantially as specified.

4. A shutter-fastener, composed of a perforated notched base-plate having depending teats, and of a notched tapering bail pivoted to said base-plate, substantially as specified.

5. A shutter-fastener, composed of a perforated base-plate adapted to engage the upper hinge-strap, and means secured to said base-plate for engaging the lower hinge-strap when the shutter is open, substantially as specified.

FRANK WANKEL.

Witnesses:

WILLIAM SCHULZ,
WILLIAM MILLER.