

(No Model.)

R. ROWE.
HINGE.

No. 590,860.

Patented Sept. 28, 1897.

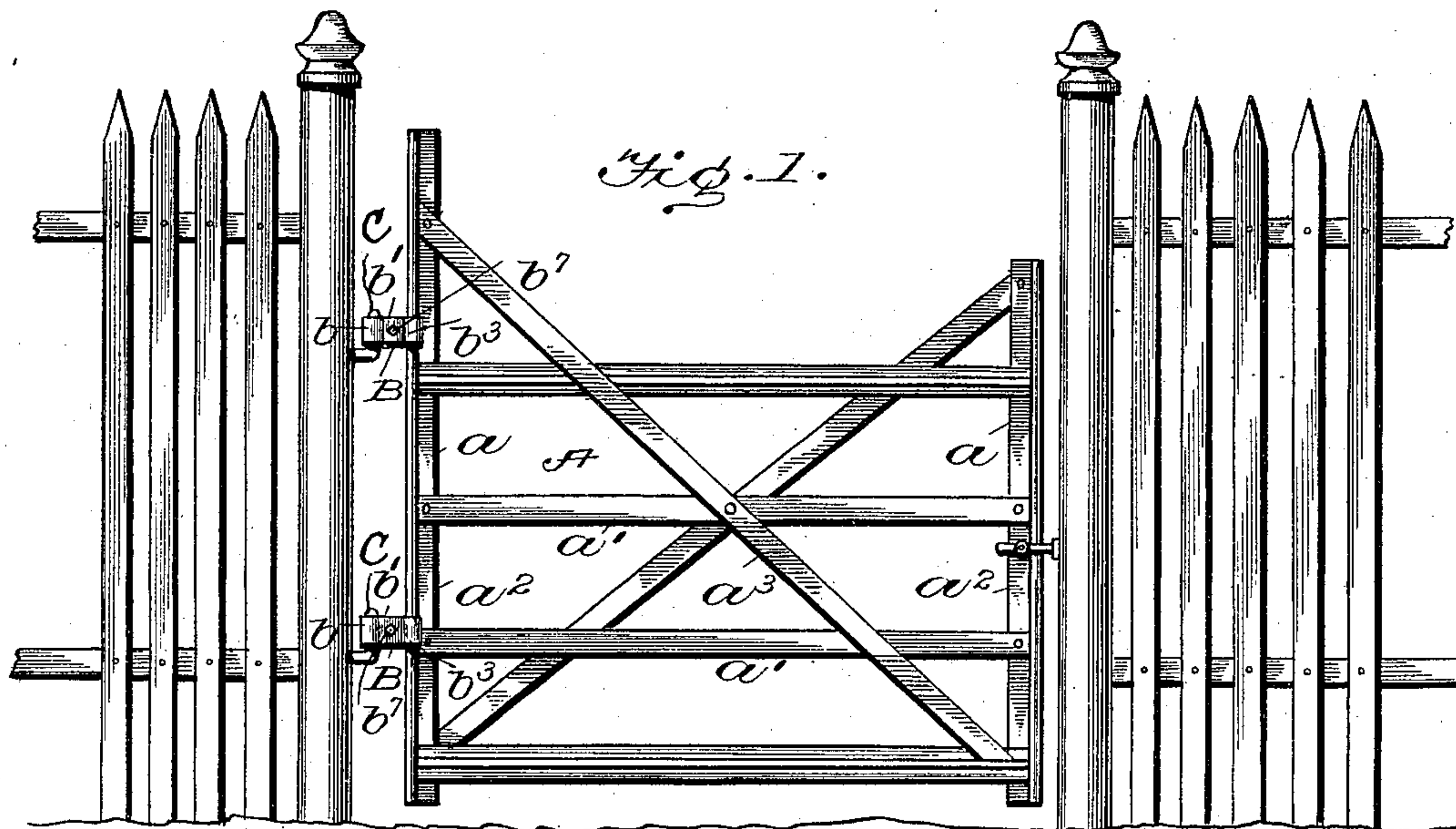


Fig. 2.

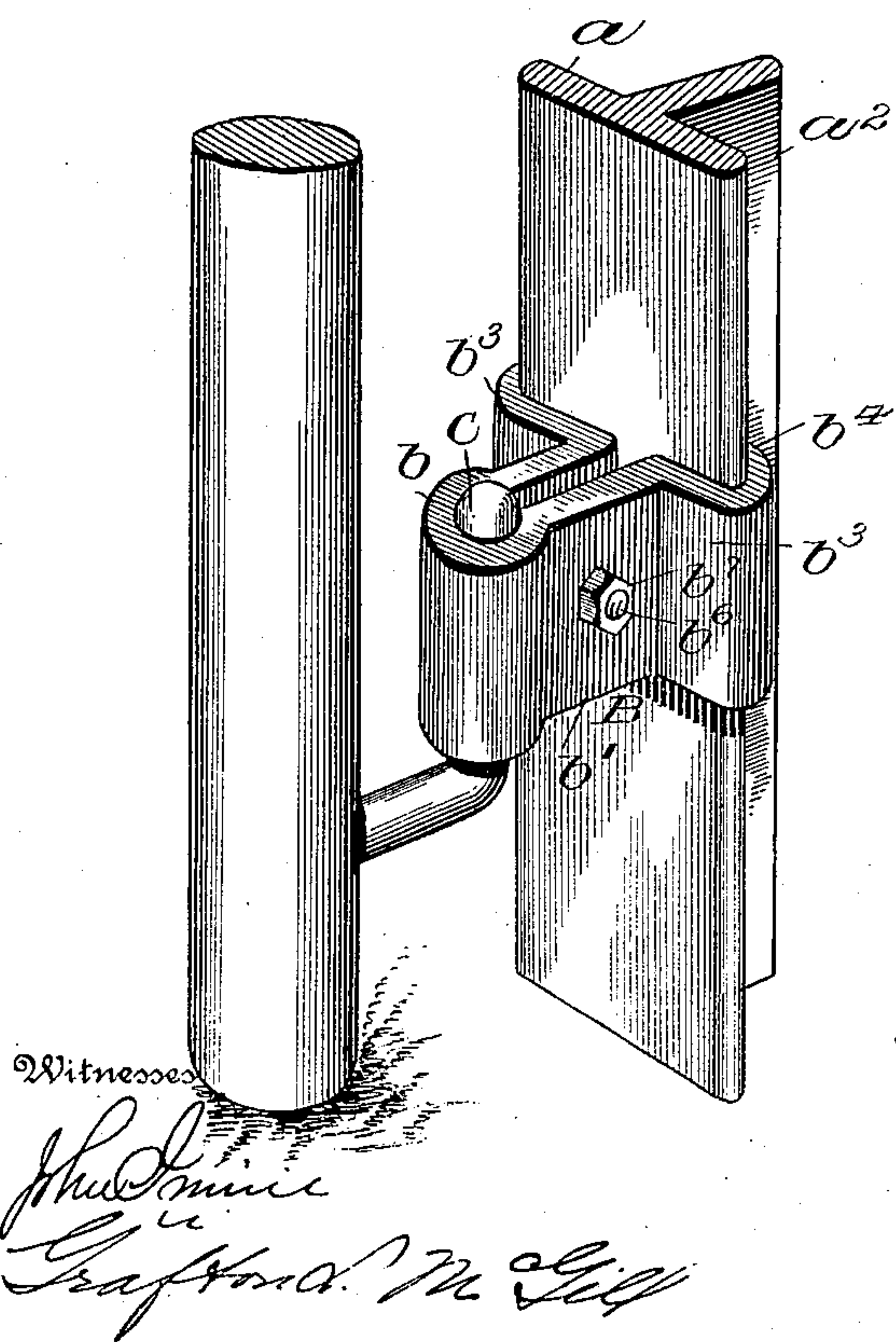


Fig. 3.

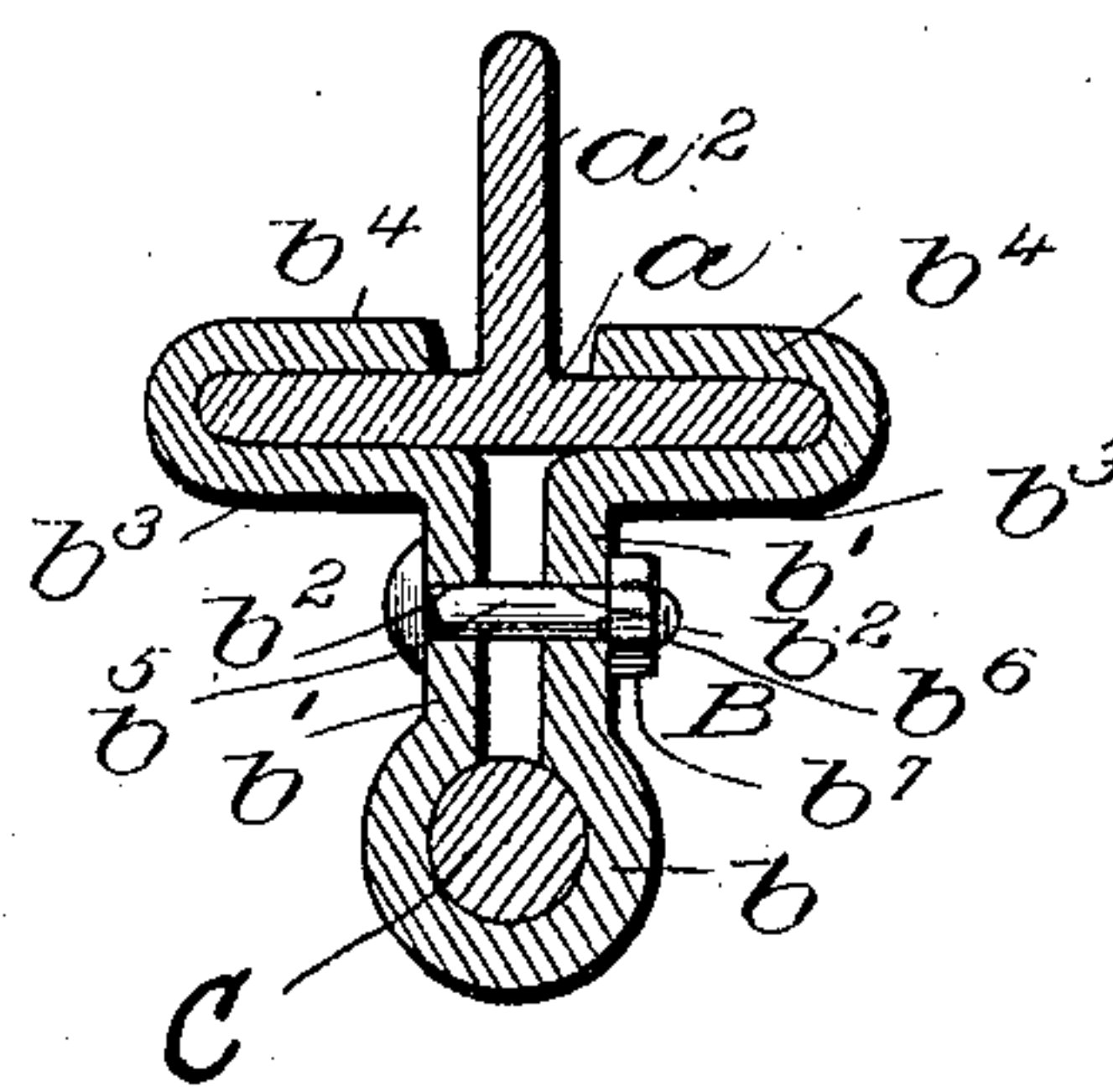
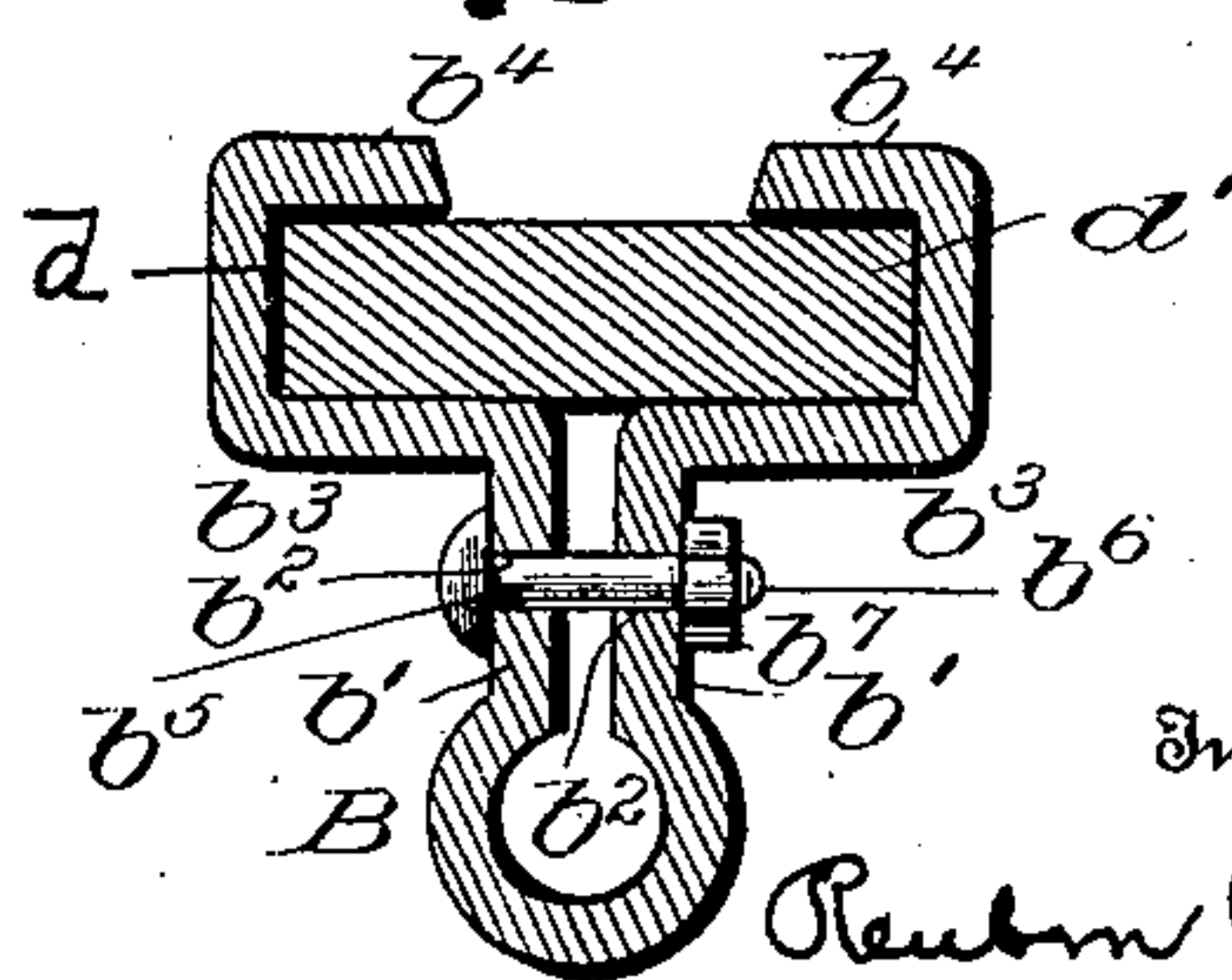


Fig. 4.



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HINGE.

SPECIFICATION forming part of Letters Patent No. 590,860, dated September 28, 1897.

Application filed April 15, 1897. Serial No. 632,220. (No model.)

To all whom it may concern:

Be it known that I, REUBEN ROWE, of Dover, in the county of Morris and State of New Jersey, have invented certain new and useful Improvements in Hinges; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention contemplates certain new and useful improvements in hinges, and relates more particularly to that class employed in connection with gates and the like.

The object of the invention is to produce a simple and inexpensive hinge having a leaf or member adapted to clasp the vertical bars of a gate in such manner that the same may be adjusted vertically with relation to said gate, whereby the latter may be changed to a higher or lower plane, as may be desired.

In carrying out my invention I form a leaf or member of spring metal, said leaf or member being bent to form two parallel spring-arms connected by a rear bowed portion adapted to receive the pintle of the other member of the hinge. The spring-arms are provided with bent ends adapted to receive one of the vertical bars of a gate or the like, a nutted rod or bolt intermediate of said bowed portion and said ends serving to bring the latter toward each other, whereby said leaf or member is firmly secured to the gate.

The invention will be hereinafter fully set forth, and particularly pointed out in the claims.

In the accompanying drawings, Figure 1 is a view in side elevation illustrating my improved hinge as applied to a gate. Fig. 2 is an enlarged perspective view of the hinge. Fig. 3 is a transverse sectional view on the line $x x$, Fig. 2. Fig. 4 is a view of a slight modification.

Referring to the drawings, A designates a gate, the vertical bars a of which are formed T shape in cross-section. The horizontal bars a' are connected at their ends to the tongues a^2 of said T-bars, and brace-bars a^3 extend diagonally across said gate from the top to the bottom thereof.

The hinge B is formed of flat spring metal, which is bent back upon itself and bowed at

b to receive the pintle C. From the bowed portion b extend two parallel arms b' , provided with coincident holes or openings b^2 , said arms being bent approximately at right angles and in opposite directions at b^3 , the ends b^4 thereof being bent back upon said right-angular portions and adapted to clasp the lateral extensions of one of the T-bars forming the gate. A rod or bolt b^4 , having a threaded end b^6 , is extended through the holes or openings b^2 , and a nut b^7 , working thereon, serves to draw said arms toward each other, whereby said hinge is caused to securely clasp said T-bar.

In Fig. 4 I have shown a slight modification of my hinge, the same being designed more especially for use in connection with gates employing other than T-bars. In this form the distance between the bent ends b^4 and the right-angular portions b^3 is made greater, as at d , whereby said arms are caused to clasp the entire bar or post d' .

The advantages and operation of my improved hinge are at once apparent. It will be particularly observed that the bowed portion of the hinge, in addition to passing over the pintle of the gate-post to support the hinge, also acts as a spring which serves to maintain the parallel arms of the clamp portion normally apart. When it is desired to raise or lower the gate or alter the vertical plane of the same in any way—as, for instance, in the event of a deep snow or the like—the clamp portion of the hinge is loosened and the gate can then be adjusted to any position, after which the clamp can be made to readily and quickly engage the gate by merely tightening the nut b^7 .

It will thus be seen that I have produced a gate-hinge that is exceedingly simple and inexpensive in construction and one which can be readily applied to the forms of gates now in general use.

I claim as my invention—

1. The herein-described hinge, comprising a single piece of spring metal bent upon itself to form a rear bowed portion and forward parallel arms, and means intermediate of said bowed portion and said arms whereby the latter are made to clasp one of the bars of a gate, as set forth.

2. The herein-described hinge, comprising

a member having two parallel spring-arms having their ends bent or curved in opposite directions and adapted to clasp one of the bars of a gate, means for holding said arms
5 normally apart, and a nutted bolt passed through said spring-arms in rear of said curved or bent ends, substantially as set forth.

3. The herein-described hinge, comprising a member having a rear bowed portion and
10 forward parallel arms having bent ends adapted to embrace or clasp one of the bars of a gate, and a nutted bolt passed through said arms intermediate of said bowed portion and said ends, substantially as set forth.

15 4. The herein-described improved hinge, comprising a member having a rear bowed portion and forward parallel arms provided with angular portions having their ends bent or curved in opposite directions and adapted
20 to embrace or clasp one of the bars of a gate, and a nutted bolt passed through coincident holes or openings in the parallel portions of

said arms and intermediate of said bowed portion and said angular portions, whereby said angular ends may be brought together, 25 substantially as set forth.

5. The combination with a gate having its posts formed of T-bars, flat bands or bars connecting the tongues of said T-bars, of hinges having rear bowed portions and forward
30 spring-arms provided with bent ends adapted to clasp one of said T-bars, and a nutted bolt passed through said spring-arms intermediate of said bent ends and said bowed portion and adapted to bring said ends together, substan- 35 tially as set forth.

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

REUBEN ROWE.

Witnesses:

THOMAS BAKER,
W. B. GELLEN.