

(Model.)

A. SEIVARD.  
LOCK HINGE.

No. 283,523.

Patented Aug. 21, 1883.

Fig. 1.

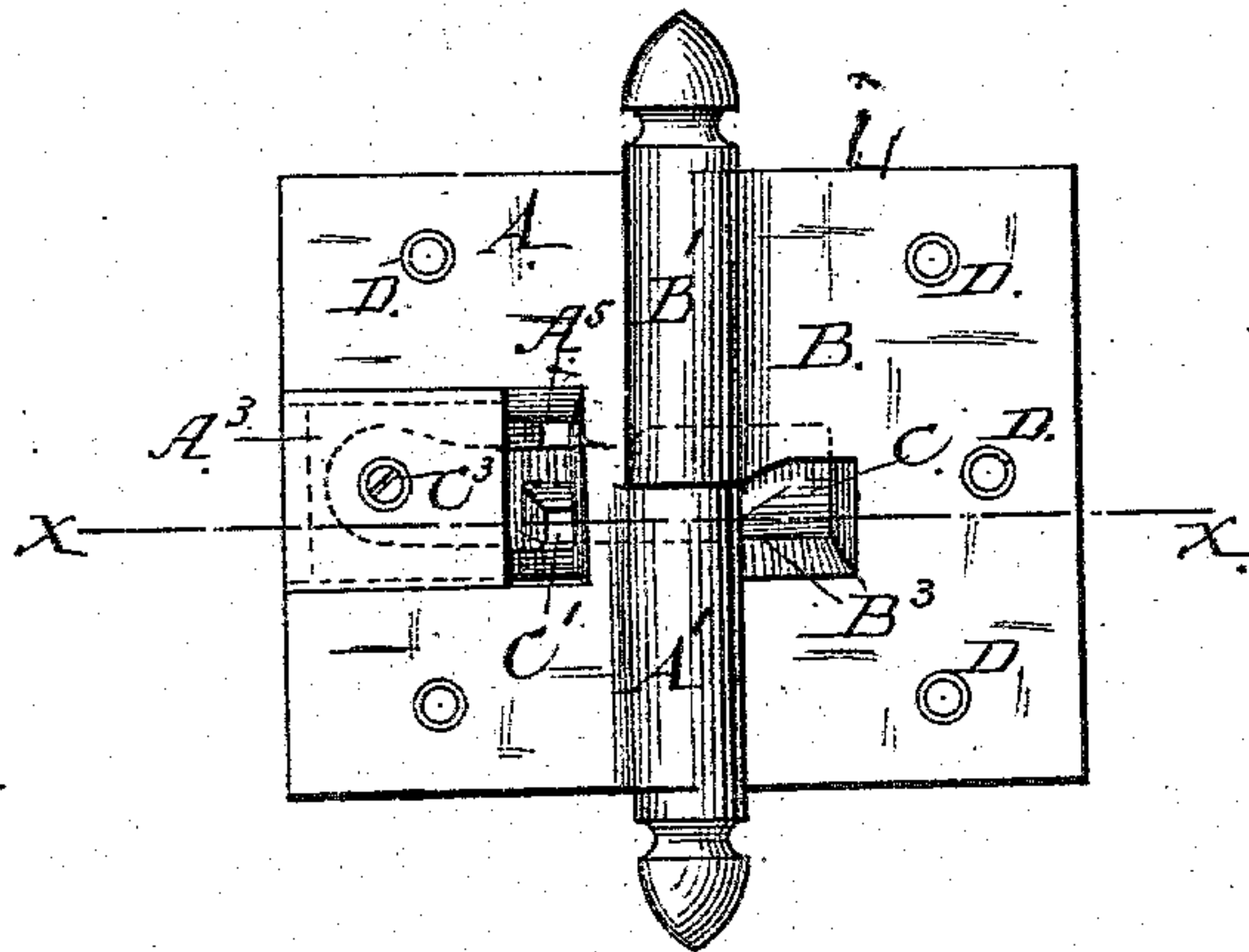


Fig. 2.

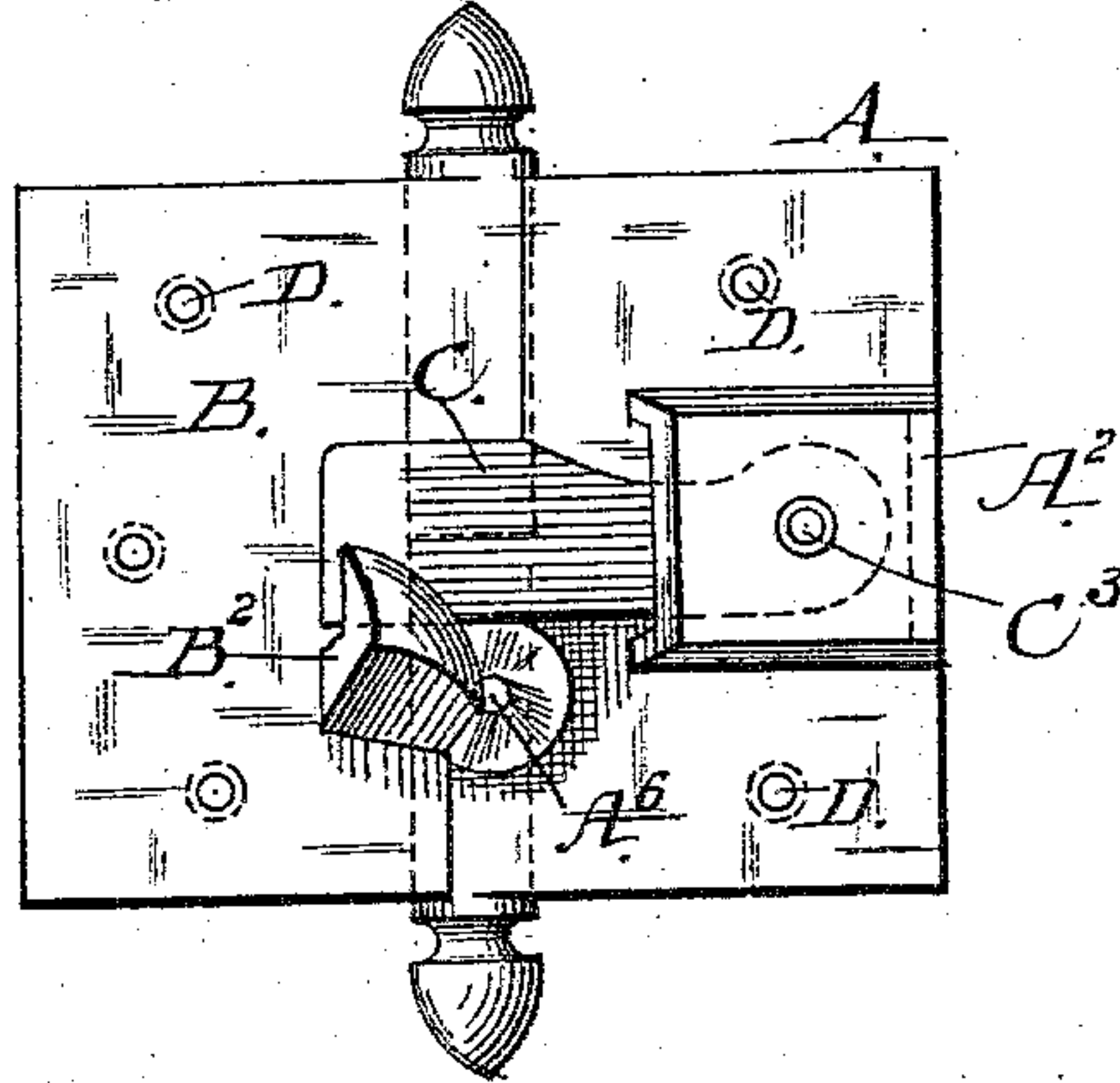


Fig. 3.

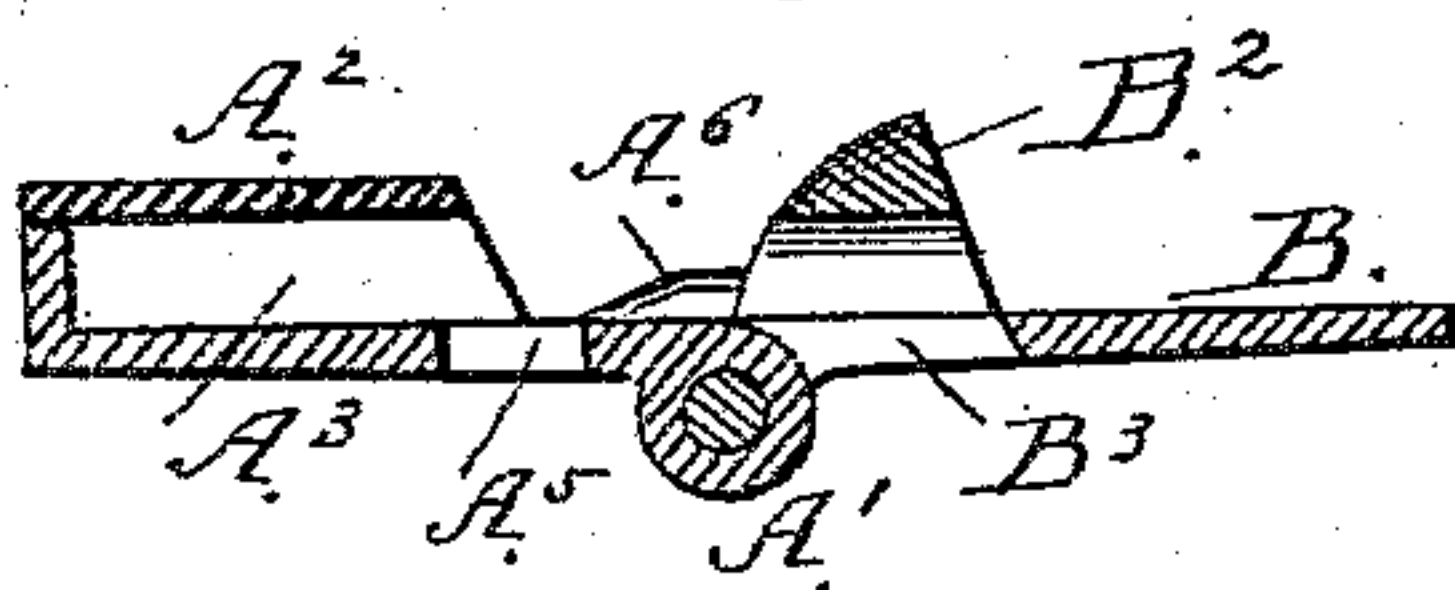


Fig. 4.

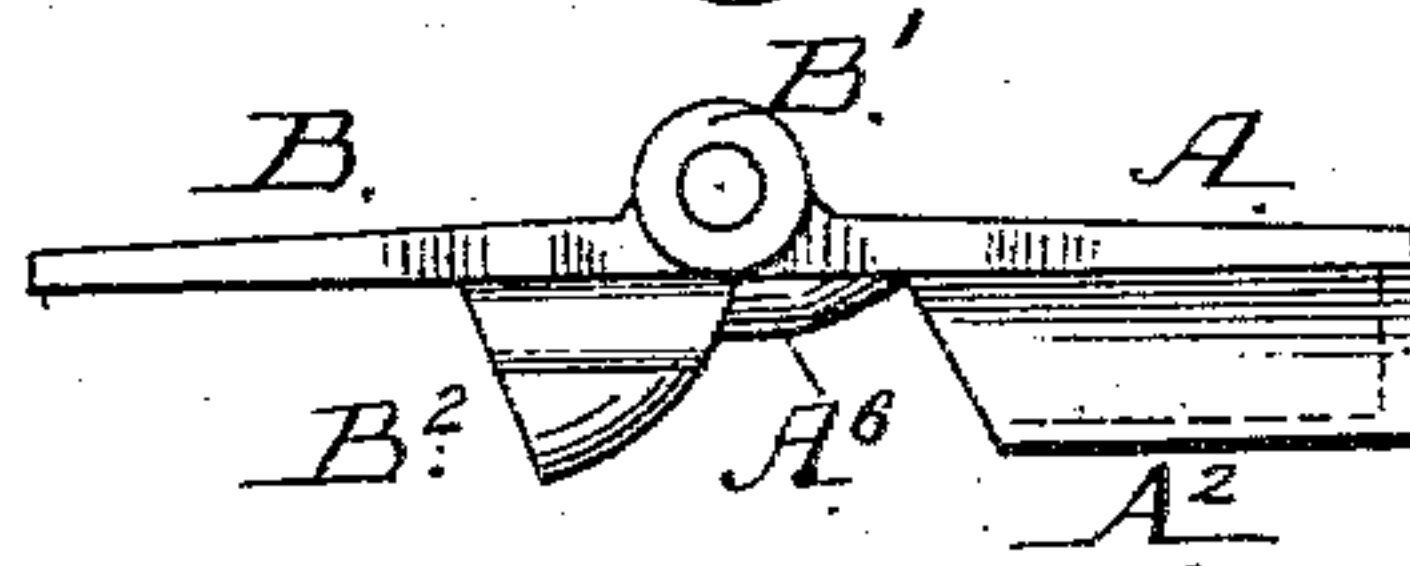


Fig. 5.

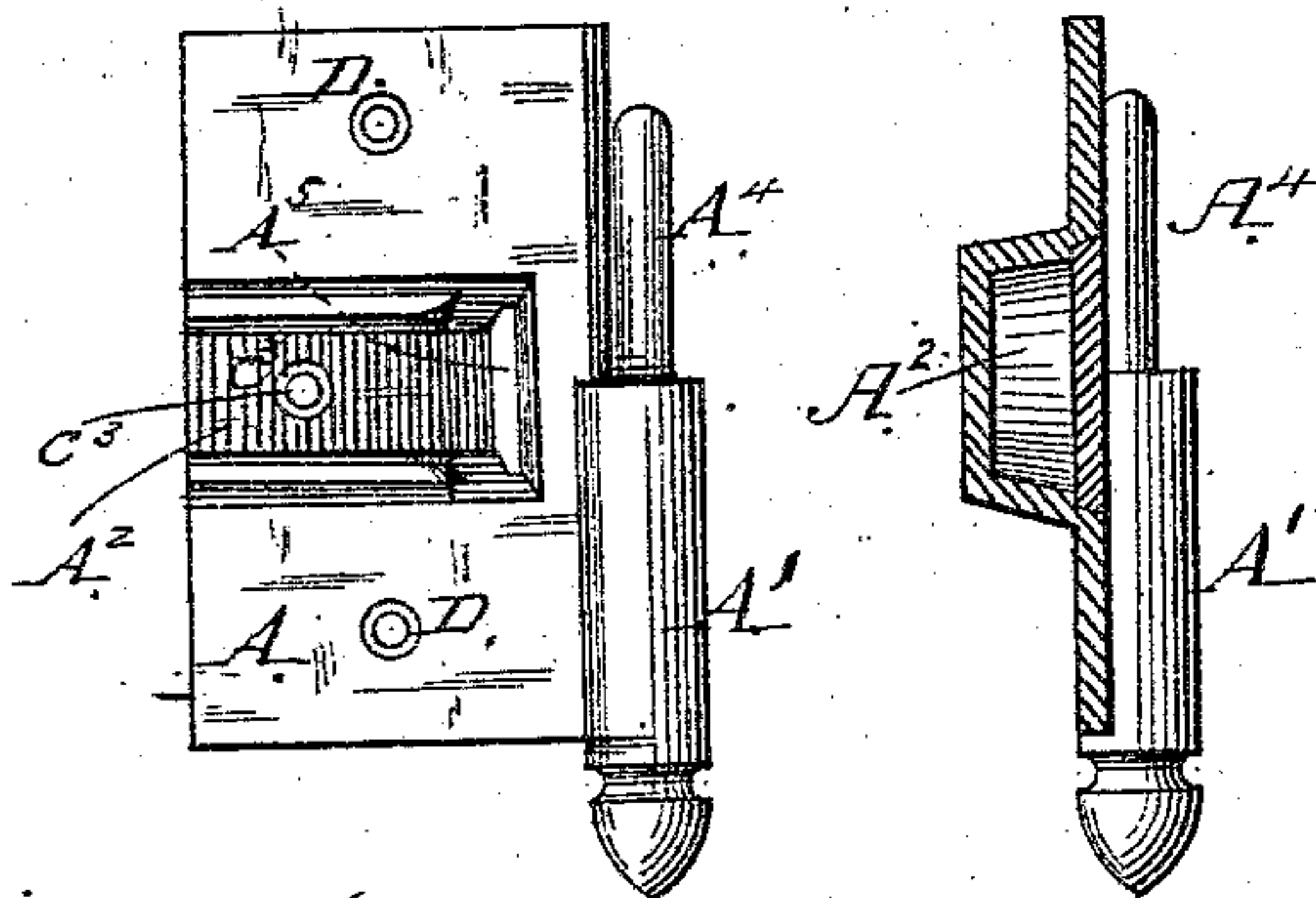


Fig. 6.

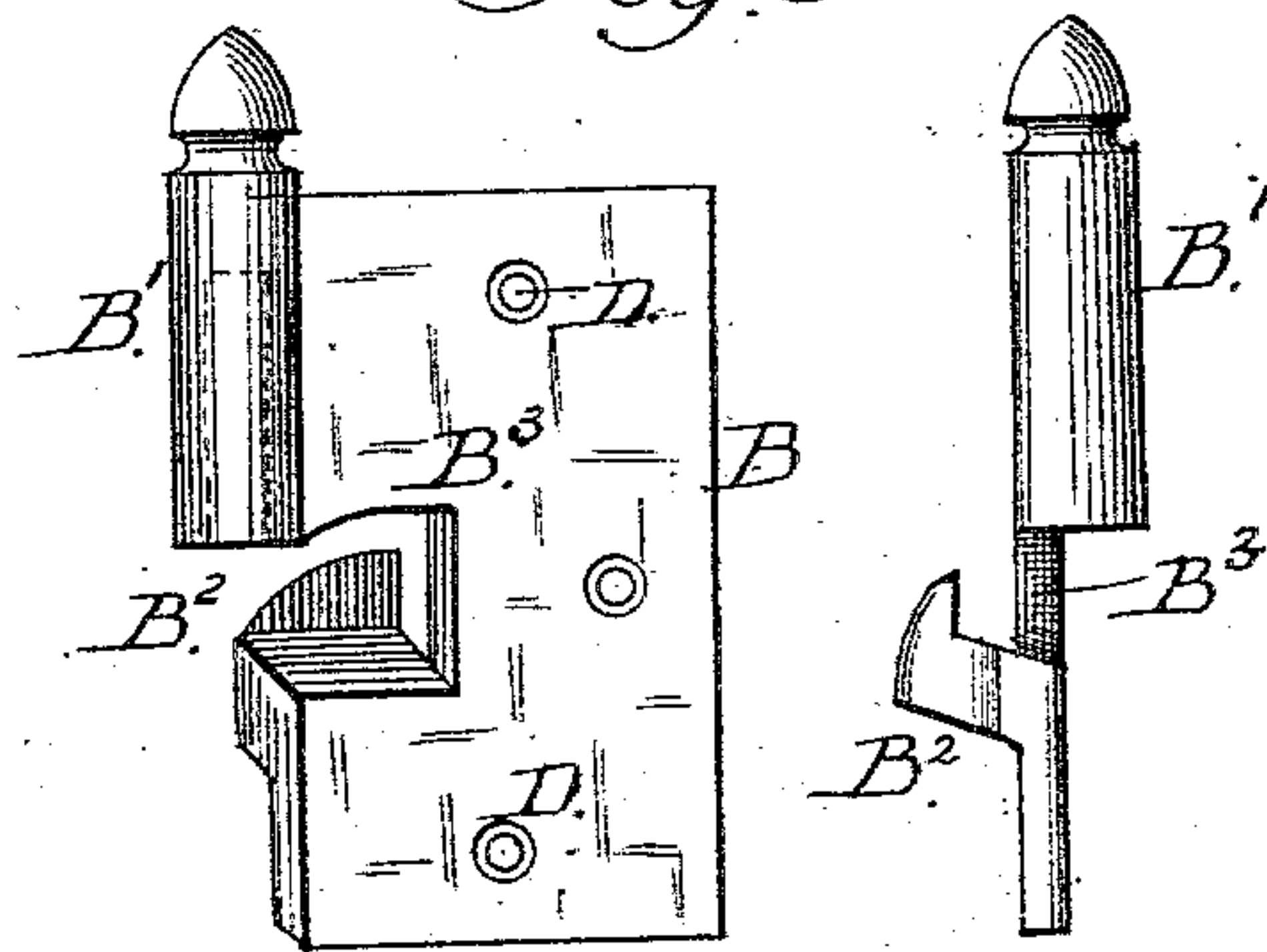


Fig. 7.

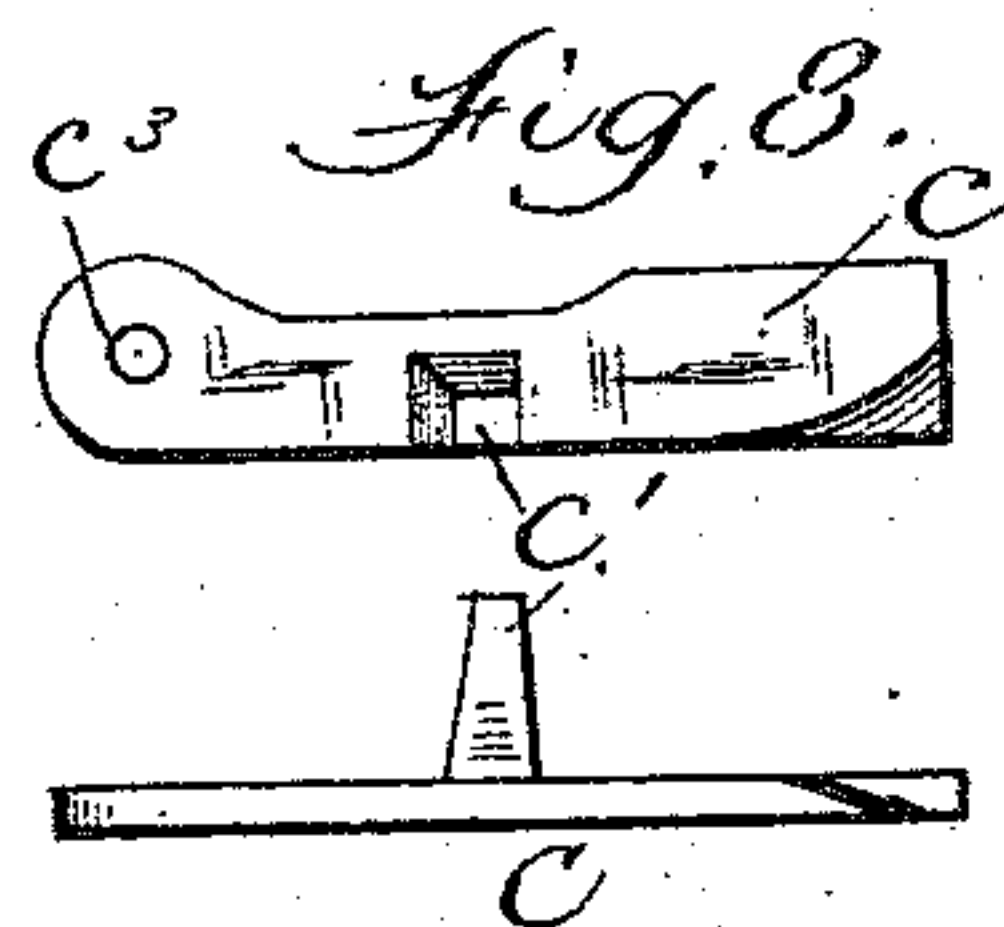
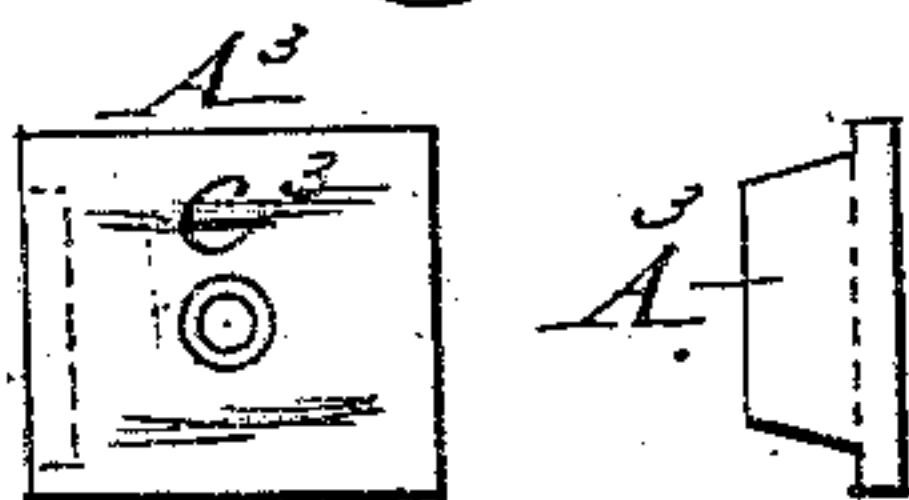
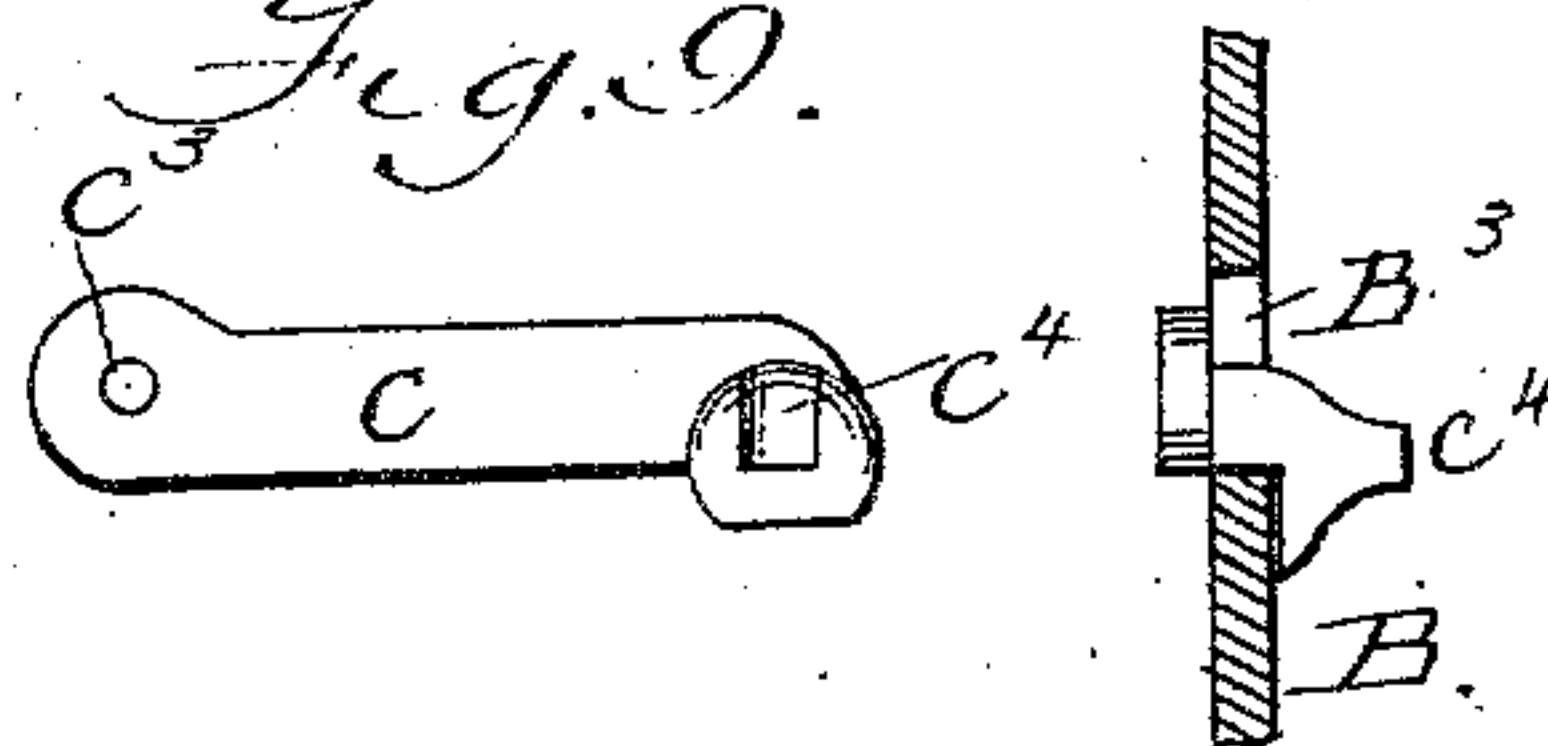


Fig. 9.



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# UNITED STATES PATENT OFFICE.

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## LOCK-HINGE.

SPECIFICATION forming part of Letters Patent No. 283,523, dated August 21, 1883.

Application filed July 6, 1883. (Model.)

*To all whom it may concern:*

Be it known that I, ABRAHAM SEIVARD, a citizen of the United States, and a resident of the city of Reading, county of Berks, and State of Pennsylvania, have invented a new and useful Improvement in Shutter-Hinges, of which the following is a specification.

This improvement relates to the class of automatic-locking shutter-hinges.

The object of the invention is to furnish a simple and reliable lock-hinge, easily molded and cast, requiring very little fitting, and adaptable to all shutters.

The drawings herewith, which form a part of this specification, are so fully detailed that an expert will easily comprehend them. Similar letters designate similar parts throughout the same.

Figure 1 is a front elevation of my improved locking-hinge. Fig. 2 is a rear view of the same. Fig. 3 is a sectional plan on the line  $x$  of Fig. 1. Fig. 4 is a simple plan of Fig. 2. Fig. 5 is a front and edge view of the detached window-frame leaf. Fig. 6 is a front and edge view of the detached shutter-leaf. Fig. 7 is a plan and end view of the latch-pocket cap. Fig. 8 is an elevation and reverse plan of the hinge-latch. Fig. 9 is an elevation and end view of an alternative latch.

A represents the window-frame hinge-leaf; A', the pintle-boss; A<sup>2</sup>, the hinge-latch pocket; A<sup>3</sup>, the latch-pocket cap; A<sup>4</sup>, the pintle; A<sup>5</sup>, an opening through the leaf of the hinge; A<sup>6</sup>, a re-enforce on the back. B represents the shutter-hinge leaf; B', the pintle-socket; B<sup>2</sup>, the latch-keeper; B<sup>3</sup>, a notch cut out of the inner edge of the leaf. C represents the latch; C', the latch-lifter; C<sup>2</sup>, easement to facilitate rising upon the keeper; C<sup>3</sup>, fulcrum of latch; C<sup>4</sup>, grip of alternative latch; D, screw-holes or screws.

I am well aware that I am not the first to construct shutter-hinges automatic or self-locking back upon the wall; but in all the hinges with which I am conversant, designed to so operate, there was a want of stability and fitness that prevented their introduction, or they were too expensive for application to the ordinary class of buildings provided with outside shutters.

The construction of my improved hinge is as follows: The ordinary shutter butt-hinge

pattern is easily changed into my self-locking device as follows: The frame-leaf A has a central oblong piece cut out of the same, as at A<sup>3</sup>, and a shell-pocket, A<sup>2</sup>, is soldered upon the back, and so arranged relative to the leaf that it is molded without the use of cores. A re-enforce, A<sup>6</sup>, is also placed, as shown in Figs. 2 and 4, to prevent overreaching of the shutter. The latch-pocket A<sup>2</sup> is provided with seats, as shown, for the cap, which prevents binding of the latch. The leaf is provided with the usual screw-holes, D, the central screw, C<sup>3</sup>, in this leaf acting as the fulcrum for the latch. The pintle-boss A' and pintle A<sup>4</sup> may be enlarged, if desired, so that the whole may be of cast metal, or the pintle may be of wrought-iron.

The shutter-leaf B has a central notch, B<sup>3</sup>, cut out of the same, and back of it is placed the latch-keeper B<sup>2</sup>, constructed as shown. The pintle-socket B' is either drilled or cored to suit the pintle of cast or wrought iron. The notch in the leaf admits of the molding of the same with its keeper without the use of cores. The latch C is a plain casting, having a lifter, C', and the face of the latch at the outer end, C<sup>2</sup>, rounded or eased off, so as to ride upon the keeper incline when the shutters are thrown back. The cap of the latch-pocket A<sup>3</sup> rests upon its seat, and the outer end has a projecting piece which closes the pocket at the edge of the hinge. It has a central countersink-hole, C<sup>3</sup>, for the latch-fulcrum screw. Fig. 9 shows a latch, which if used will do away with the keeper. The head or grip C<sup>4</sup> on opening and throwing back the shutter would protrude through the leaf B, and dropping over the body thereof would lock the same in place. The head C<sup>4</sup> in this case would act in place of the lifter C', which could be dispensed with. I give preference, however, to the arrangement of latch shown in Fig. 8. In assembling the hinge, the latch C is placed in the pocket A<sup>2</sup> of the leaf A and concealed with the cap A<sup>3</sup>. The leaf B is then held at right angles with the leaf A, and the socket B' is slid down over the pintle A<sup>4</sup> and then folded over upon A. In applying the hinges, the leaf A or B is fitted, as usual, flush with the inner face, and secured with screws D, as with ordinary hinges, the central screw, C<sup>3</sup>, on the leaf A passing through the cap A<sup>3</sup>, latch C,



and pocket A<sup>2</sup> into the timber back of same, the ledges in the pocket forming a seat for the cap, and keeping the latch free therein.

Having shown the construction and application of my improved locking shutter-hinge, I desire to secure by Letters Patent the following claims thereon:

1. In an automatic-locking shutter-hinge, the combination of a perforated and pocketed leaf, 10 A, provided with a pocket-cap, A<sup>3</sup>, and a reinforce, A<sup>6</sup>, pintle-boss A<sup>1</sup>, and pintle A<sup>4</sup>, with a leaf, B, having a pintle-socket, B<sup>1</sup>, latch-keeper B<sup>2</sup>, and notch B<sup>3</sup>, adapted to be automatically locked in an opened position by the 15 latch C, fulcrumed in the pocket A<sup>2</sup> in the screw C<sup>3</sup>, and arranged to ride upon and lock within the keeper B<sup>2</sup>, and to be disengaged therefrom by the lifter C, substantially as shown, and for the purpose set forth.

20 2. In an automatic locking-hinge, the frame-

leaf A, provided with a pocket, A<sup>2</sup>, having seats therein for a cap, A<sup>3</sup>, the cap provided with an offset closing the out edge of the pocket, both in combination with the latch C by the fulcrum-screw C<sup>3</sup> and with the shutter- 25 leaf by pintle A<sup>4</sup> and latch-keeper B<sup>2</sup>, substantially as shown, described, and for the purpose set forth.

3. In an automatic locking-hinge, the shutter-leaf B, provided with a keeper, B<sup>2</sup>; and 30 pintle-socket B<sup>1</sup>, having an inner edge notch, B<sup>3</sup>, cut therefrom to disclose the keeper and permit the molding of the same without the use of cores, and in combination with the frame-leaf A, by pintle A<sup>4</sup>, and latch C, sub- 35 stantially as and for the purpose set forth.

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