

(No Model.)

2 Sheets—Sheet 1.

G. S. ELLIOTT.
SHUTTER WORKER.

No. 411,548.

Patented Sept. 24, 1889.

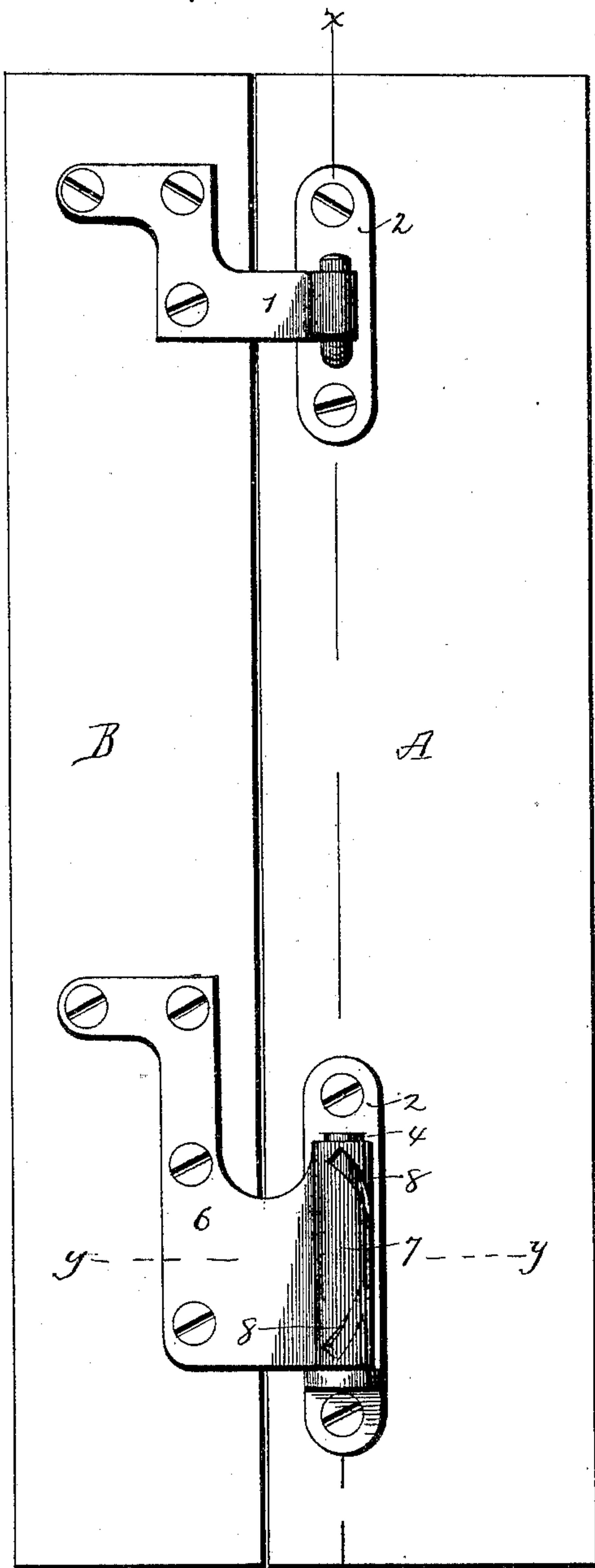


FIG. 1.

Witnesses
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S. G. Nottingham

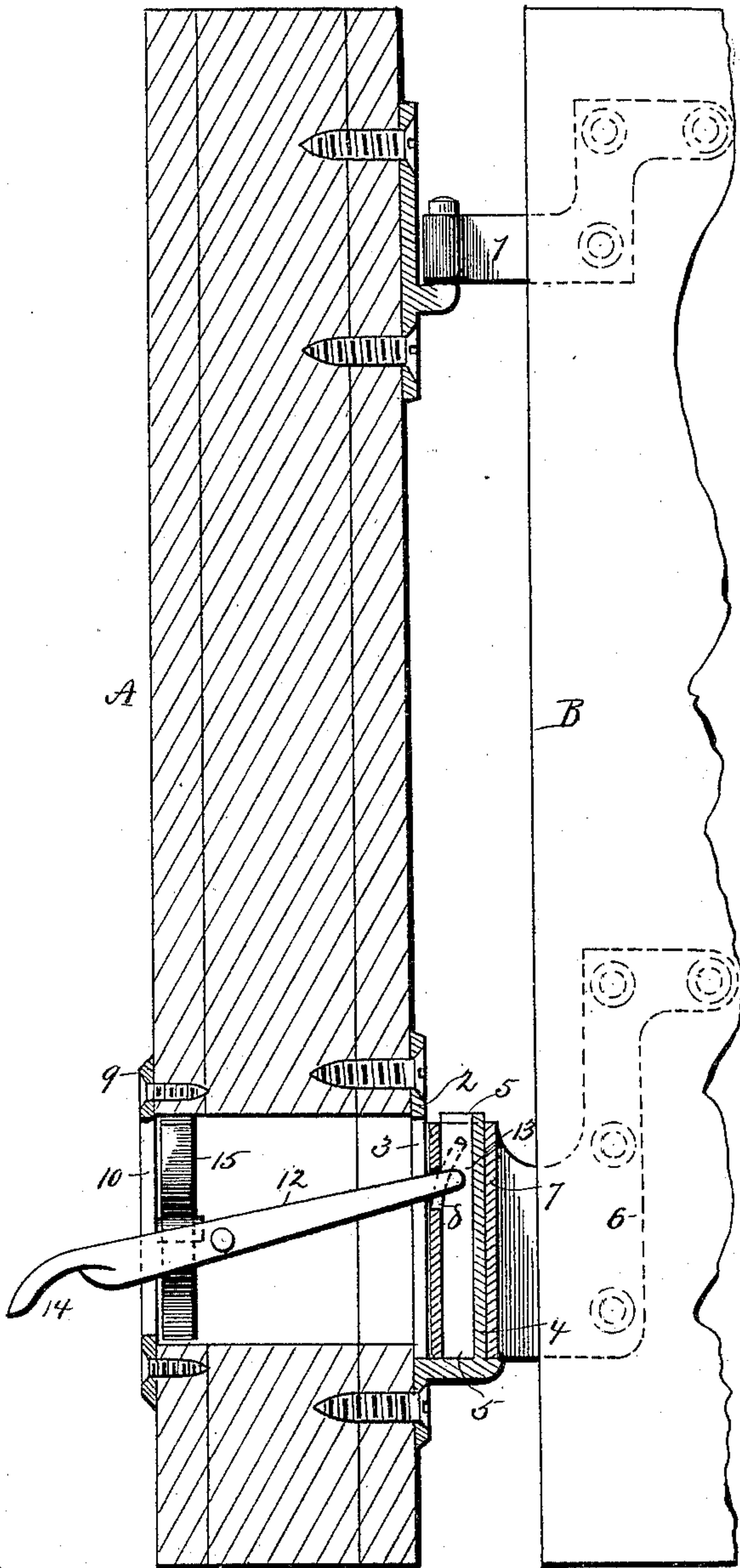


FIG. 2.

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By *his* Attorney
H. A. Sigmund

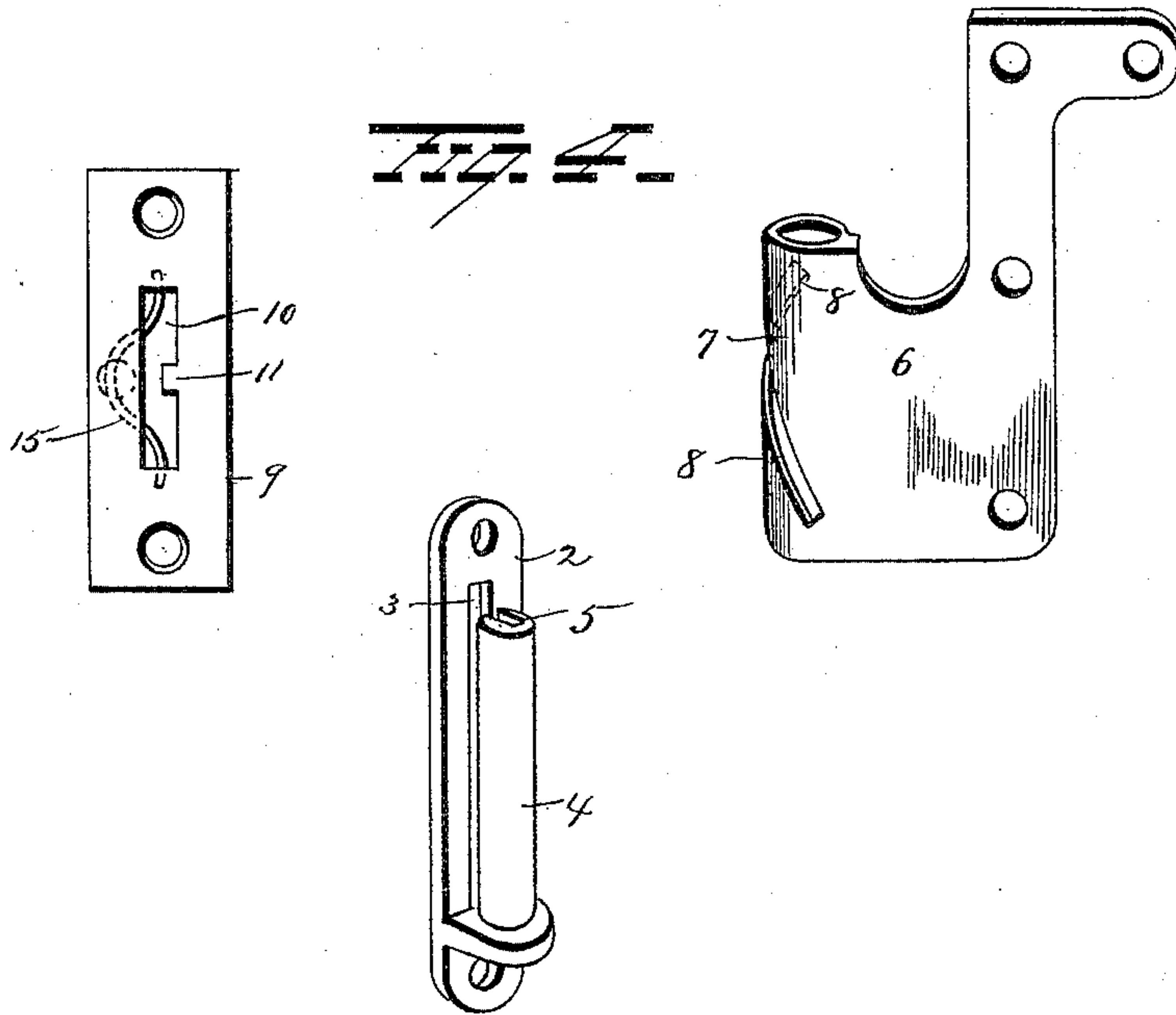
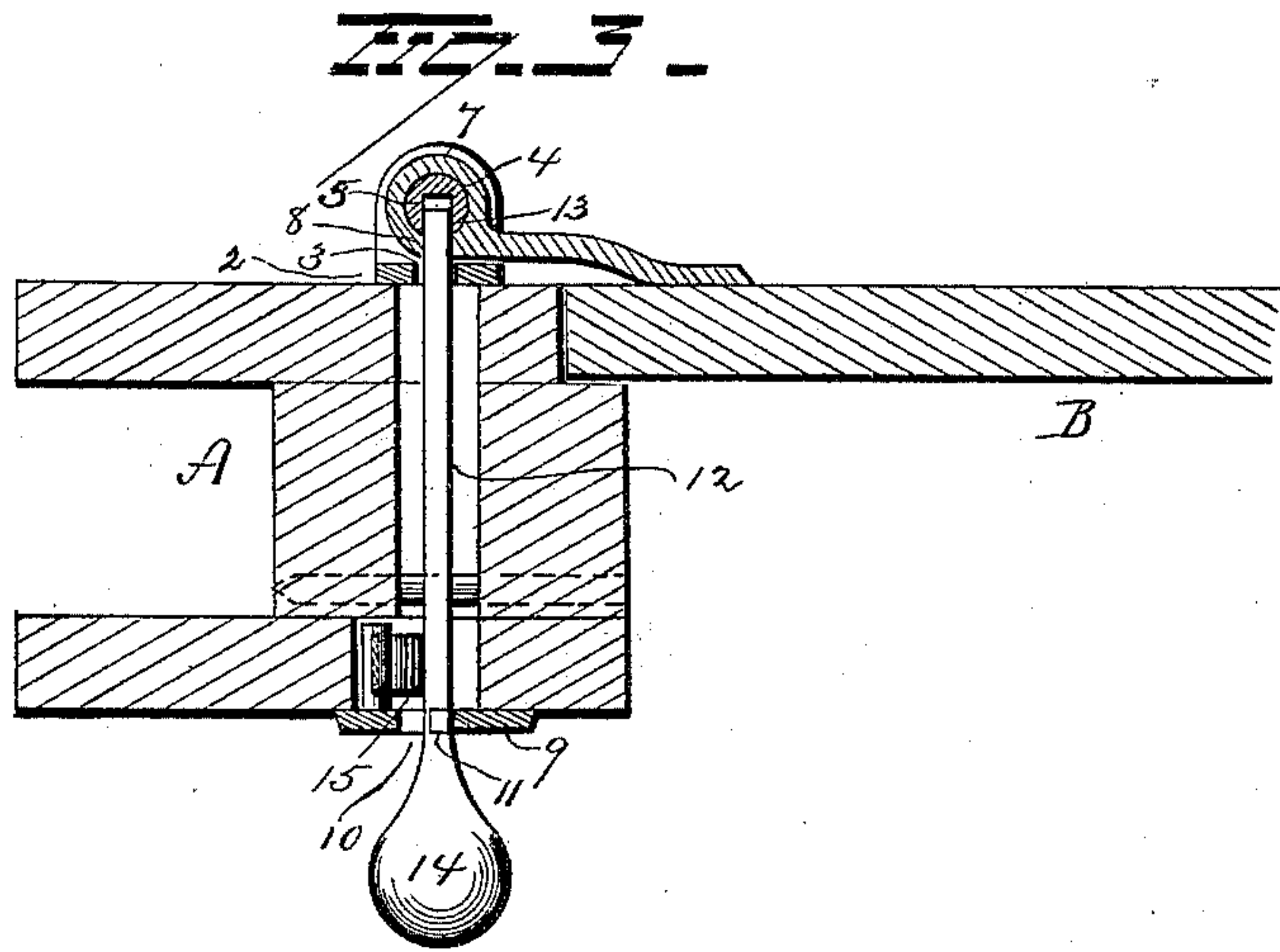
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2 Sheets—Sheet 2.

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SHUTTER WORKER.

No. 411,548.

Patented Sept. 24, 1889.



Witnesses
G. F. Downing
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Inventor
G. S. Elliott
By his Attorney
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UNITED STATES PATENT OFFICE.

GEORGE S. ELLIOTT, OF MOBILE, ALABAMA.

SHUTTER-WORKER.

SPECIFICATION forming part of Letters Patent No. 411,548, dated September 24, 1889.

Application filed June 19, 1889. Serial No. 314,784. (No model.)

To all whom it may concern:

Be it known that I, GEORGE S. ELLIOTT, of Mobile, in the county of Mobile and State of Alabama, have invented certain new and
5 useful Improvements in Shutter-Workers; 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
10 the same.

My invention relates to an improvement in combined shutter workers and fasteners, the object being to produce a substitute for an ordinary shutter-hinge possessing the func-
15 tions of a shutter-worker for opening or closing the shutter, and also of a shutter-fastener which will automatically catch when the shutter is in either of its extreme open or closed positions upon the inside of the casing
20 beyond the reach of an outsider, thus not only effecting a secure fastening when the shutter is open, but also a burglar-proof lock when it is closed, and in so doing entirely dispensing with other fastenings.

25 A further object is to provide a device which may be easily applied, will be effective and convenient in its operation, and which may be placed on the market at a low cost.

30 With these ends in view my invention consists in certain novel features of construction and combinations of parts, as will be herein- after fully described, and pointed out in the claims.

In the accompanying drawings, Figure 1 is
35 a view showing the shutter closed, with my improvement attached. Fig. 2 is a sectional view taken on line *x x* of Fig. 1, the shutter being open. Fig. 3 is a horizontal section on line *y y* of Fig. 1, and Fig. 4 is a detached
40 view of the hinge-sections and the locking-plate.

A represents a window-casing and B a shutter hinged thereto. The upper hinge 1 may be of any of the varieties generally used for
45 blinds or shutters, and the lower hinge is of peculiar construction, and as it involves some of the principal portions of my invention will be described in detail. A plate 2, corresponding to the plate of hinge 1, is secured
50 on the outside of the frame. This plate is

furnished with a narrow elongated slot 3, extending nearly the entire length of the plate, and opposite this slot the vertical pintle or post 4 projects upward to or nearly to the upper end of the slot. The pintle is provided
55 with a straight groove 5 in the face adjacent to the slot, and the function of this will appear hereinafter. The other leaf 6 of the hinge is secured to the shutter and has a sleeve or socket 7 on one end, which encircles
60 the pintle 4. A narrow spiral slot or inclining guide 8 extends from one end of this sleeve to the other and throughout its entire length extends half-way around the sleeve, so that its lower end will be opposite the
65 groove 5 when the shutter is wide open and the upper end will be opposite the groove when it is closed. A latch-plate 9 is secured on the inside of the frame, directly opposite the plate 2. This plate has an elongated slot
70 10 therein also, but preferably somewhat shorter than the slot 3 in the other plate. A lug 11 is formed on one edge of this slot and projects inwardly to form a catch. The thumb-latch 12 is pivoted in the casing and
75 extends through the slots 3 and 10, and the outer end 13 projects through the spiral slot or guide 8 into the groove 5 in the pintle. The inner end 14 terminates in a thumb-piece. The springs 15 throw the latch behind
80 the catch automatically, where it is held either in an elevated or depressed position accordingly as the shutter is shut or open. The impingement of the latch within the spiral slot necessarily swings the shutter, as the
85 latch has a straight up and down movement, and when fastened behind the catch the shutter is held fast, thus making it absolutely beyond control from the outside and consequently burglar-proof.

90 Still another feature of importance may be mentioned in conclusion, and that is, that the shutter may be operated entirely from the inside without the necessity of opening the window or raising the sash.

95 It is evident that slight changes might be resorted to in the form and arrangement of the several parts described without departing from the spirit and scope of my invention, and hence I do not wish to limit myself to
100

the particular construction herein set forth; but,

Having fully described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. The combination, with a shutter and casing, of hinges by which the shutter is connected with the casing, one of said hinges having a spiral guide thereon, and a latch
10 having connection with the guide whereby the shutter is swung by raising or lowering the latch, substantially as set forth.

2. The combination, with a shutter and casing, of hinges by which the shutter is connected with the casing, one of said hinges
15 having a spiral guide thereon, and a latch pivoted transversely within the casing and having engagement at one end with the guide, a catch for retaining the latch in position,
20 and springs for throwing it behind the catch, substantially as set forth.

3. The combination, with a slotted plate having a grooved pintle thereon, and a hinge-leaf having a sleeve with a spiral slot mounted

on the pintle, and a pivoted latch one end of
25 which extends through the spiral slot and into the groove in the pintle, whereby the leaf of the hinge is swung by the movements of the latch, substantially as set forth.

4. The combination, with a casing having
30 slotted plates on each side thereof, one of said plates having a latch thereon and the other having a grooved pintle, of a shutter having a hinge-leaf secured thereto, said leaf having a sleeve with a spiral slot therein mounted
35 on the pintle, and a latch pivoted in the casing with one end projecting through the groove and spiral slot and the opposite end in position to be engaged by the catch, substantially as set forth. 40

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

GEORGE S. ELLIOTT.

Witnesses:

A. H. CAIN,
J. W. THARP.