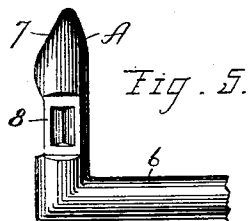
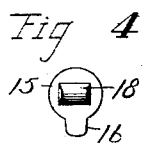
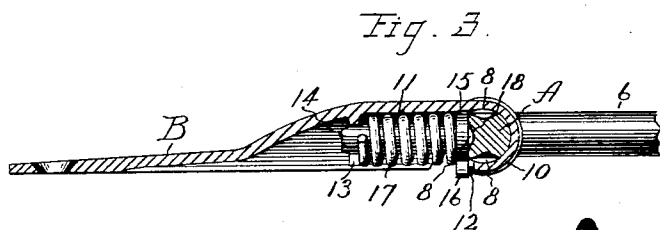
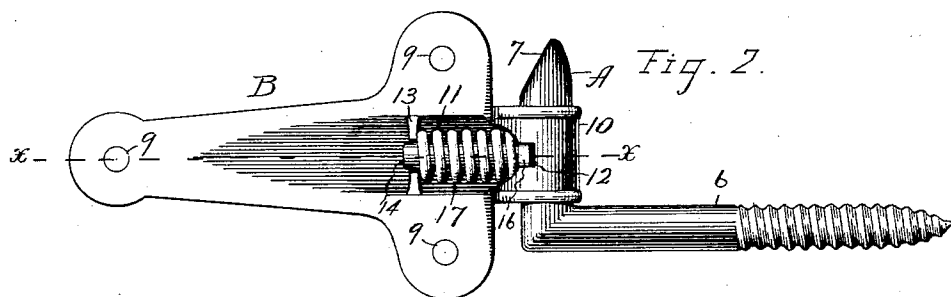
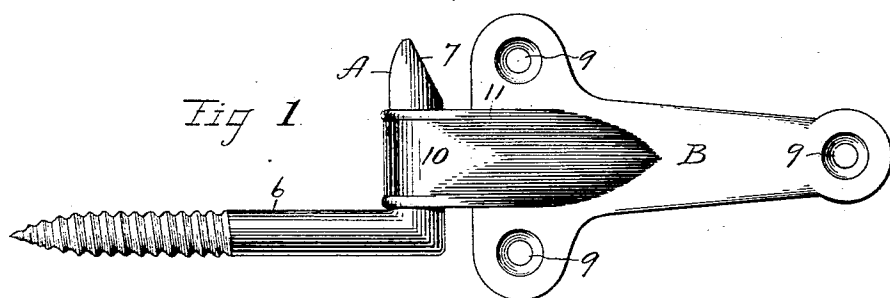


(No Model.)

O. D. HUNTER.
BLIND OR SHUTTER HINGE.

No. 580,110.

Patented Apr. 6, 1897.



WITNESSES

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UNITED STATES PATENT OFFICE.

ORANGE D. HUNTER, OF TERRYVILLE, CONNECTICUT.

BLIND OR SHUTTER HINGE.

SPECIFICATION forming part of Letters Patent No. 580,110, dated April 6, 1897.

Application filed November 2, 1895. Serial No. 567,690. (No model.)

To all whom it may concern:

Be it known that I, ORANGE D. HUNTER, a citizen of the United States, residing at Terryville, in the county of Litchfield and State of Connecticut, have invented certain new and useful Improvements in Blind or Shutter Hinges, of which the following is a specification.

My invention relates to improvements in blind or shutter hinges; and the main object of my improvement is to produce a simple and inexpensive hinge and one that will conveniently and effectually secure the blind in different positions.

In the accompanying drawings, Figure 1 is a front elevation of my hinge. Fig. 2 is a rear elevation of the same. Fig. 3 is a horizontal section thereof on the line *x x* of Fig. 2. Fig. 4 is a detached end view of the plunger, and Fig. 5 is a detached side elevation showing the pintle member of one part of my hinge.

A designates the pintle member of my hinge, the same being provided with any ordinary or desired means for securing it to the window casing or frame, as, for example, the shank 6. The pintle is provided with a pointed upper end 7, which is preferably beveled off a little, the most on that side which is opposite the shank 6. The pintle is also provided with three flattened faces 8, each of which has or may have a central depression, as shown in Figs. 3 and 4. While I prefer to employ three such faces, an effective hinge may be produced with only two flattened faces on the pintle.

B designates the other member or portion of the hinge, which member is in the form of a strap-leaf having screw-hole perforations 9 for securing the same to the blind or shutter. It is also provided with a knuckle 10 and on its rear side with a spring and plunger chamber 11, that opens into the pintle-orifice through the knuckle. On the back side of the knuckle there is a recess or notch 12, which opens toward the spring and plunger chamber. I also form a bridge 13 at the back of the hinge, having an opening to receive the small end of the securing-plunger 14 for guiding that end of said plunger. The main body of the securing-plunger is cylindrical, and at one end it is provided with a head 15, pref-

erably of disk form, and provided with a projection 16 at one edge, as shown, and the body of said plunger is surrounded by the spiral spring 17. The face of the plunger-head 16 is preferably provided with a beveled ridge 18 to enter the central depressions in the flattened faces 8 of the pintle, but the faces of the plunger and pintle may all be made plain, if desired.

In assembling the parts the body of the plunger is inserted in the spring, and then the two together are forced into the spring and plunger socket, the spring being compressed endwise at the time these parts are placed in the socket. When the spring is released, it will bear against the bridge 13 at one end, while the other end will bear against the head 15 and force said head against the knuckle until stopped by the edge projection 16 on the head 15 striking the bottom of the notch 12 in the knuckle, thereby preventing the head from entering the pintle-orifice in the knuckle so far as to close it against the insertion of the pintle. At the same time the notch 12 is deep enough to insure a good bearing of the plunger on the flattened faces of the pintle. The member A may be crowded into the knuckle of the part B by forcing the said part B down upon A. In so doing the beveled or pointed end of the pintle engages the head of the plunger and forces it back out of the way of the pintle until the plunger-head 15 is opposite one of the flattened faces on the pintle, and then the spring presses said head 15 against the flattened face of the pintle with all its force. After the leaf B is secured upon the blind the plunger and spring cannot get out of place. As the blind or shutter is forced around on its hinges the plunger is pushed back against the spring until it passes the summit between two adjacent flattened faces, and then the force of the spring throws the blind around until the face of the plunger-head and one of the flattened faces of the pintle come squarely together and hold the blind in that position until it is moved again by some outside force. The shank 6 of the pintle A will stand at a right angle to the blind when the blind is shut. The three flattened faces on the pintle enable the spring and plunger to hold the blind in its closed position or at right angles to the face of the

window-frame (its position then being the same as that shown in Figs. 1, 2, and 3) or fully open clear back against the side of the house. The blinds can readily be detached
 5 by merely lifting them and the leaves B off the pintles and can be hung again by simply placing the blind in position and forcing the knuckles of the leaves B upon the pintles. The central depressions in the flattened faces
 10 of the pintle and the ridge 18 on the plunger-head increase the life of the hinge and its holding power.

I claim as my invention—

1. The herein-described hinge consisting of
 15 the pintle member having holding-faces, the surface leaf B having a pintle-receiving knuckle and a covered but rearwardly open plunger-chamber, a rearwardly open plunger-shank bearing at that end of said plunger-
 20 chamber which is farthest from the knuckle, the plunger for pressing on the holding-faces of the pintle member, and the spring; the rearwardly open chamber and plunger-shank

bearing being formed to receive the plunger and spring by first inserting the plunger-head 25 and spring endwise toward the knuckle-perforation and then pressing the shank end of the plunger and spring laterally into place, substantially as described.

2. In a hinge having the pintle portion with 30 holding-faces and the companion surface leaf having a perforated knuckle and a covered but rearwardly open plunger-chamber that opens also into the perforation of its knuckle, a plunger and spring adapted to be inserted 35 in said chamber from the rear, said plunger having a head whose greatest lateral dimension exceeds that of the opening from the plunger-chamber into the perforation of the knuckle, substantially as described and for 40 the purpose specified.

ORANGE D. HUNTER.

Witnesses:

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 A. W. STIPEK.