

P. C. MILLER.  
HINGE.  
APPLICATION FILED OCT. 6, 1908.

920,605.

Patented May 4, 1909.

Fig. 1.

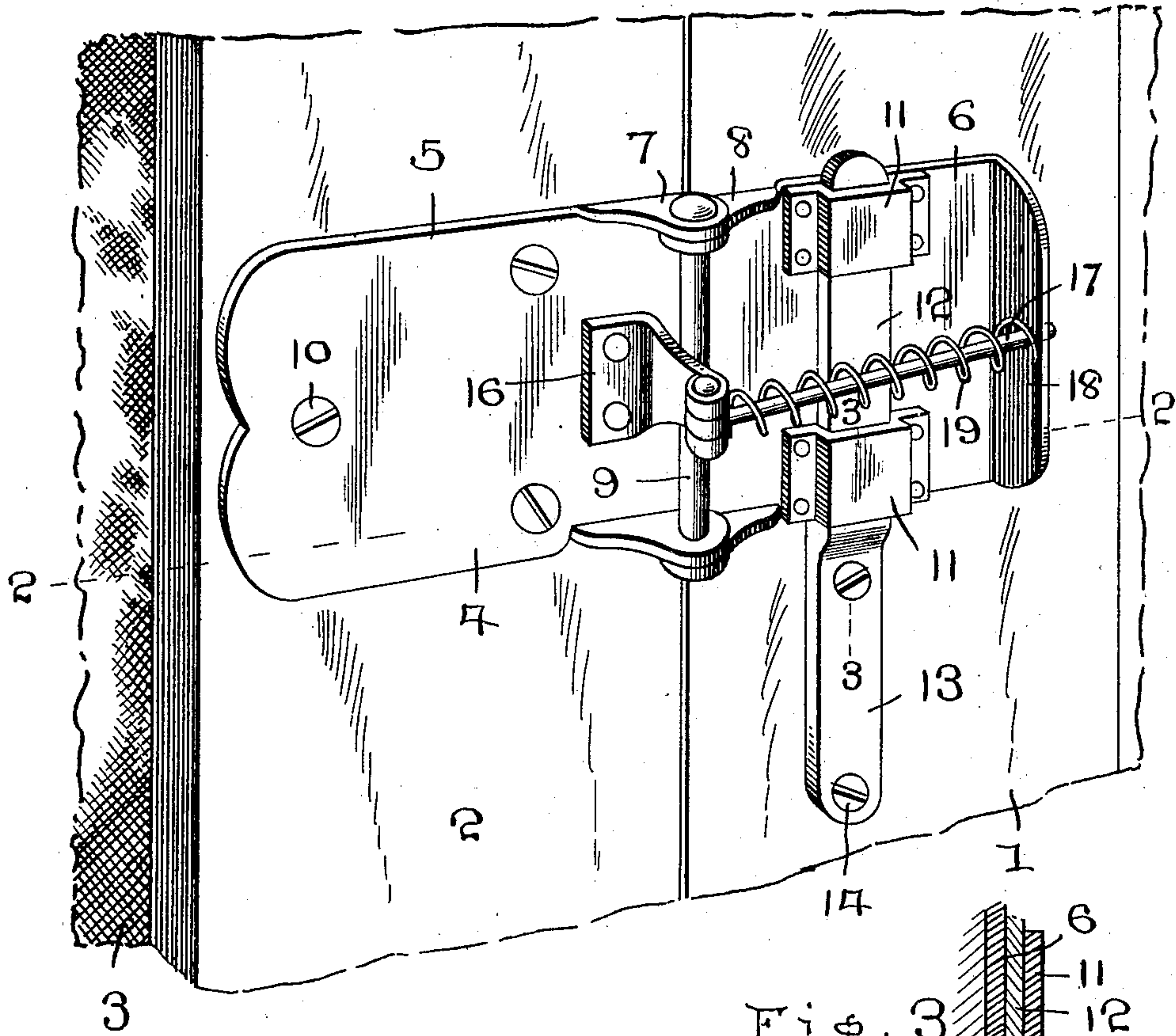
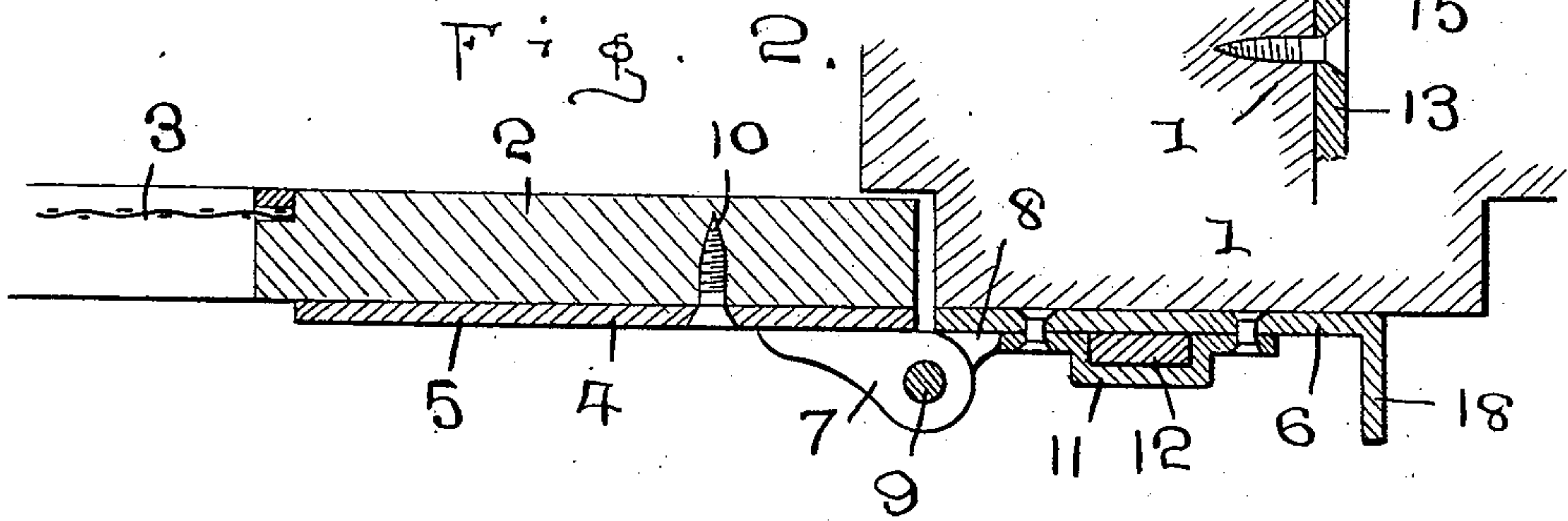


Fig. 3.



WITNESSES:

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# UNITED STATES PATENT OFFICE.

PERRY C. MILLER, OF MARKLE, INDIANA.

## HINGE.

No. 920,605.

Specification of Letters Patent.

Patented May 4, 1909.

Application filed October 6, 1908. Serial No. 456,369.

*To all whom it may concern:*

Be it known that I, PERRY C. MILLER, a citizen of the United States, residing at Markle, in the county of Huntington and State of Indiana, 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.

My invention relates to new and useful improvements in hinges and more particularly to that class adapted to be used for temporarily hingedly securing objects in position, such as screen doors, or the like, and my object is to provide means for loosely mounting one section of the hinge to the door jamb or casing and a further object is to provide means for mounting the spring on the parts of the hinge, whereby when the door is released after being swung open against the tension of the spring the reaction thereof will close the door.

Other objects and advantages will be hereinafter referred to and more particularly pointed out in the claims.

In the accompanying drawings which are made a part of this application, Figure 1 is a detail perspective view of a portion of a jamb and screen door showing my improved hinge applied to use. Fig. 2 is a cross section of Fig. 1 on line 2—2, Fig. 1, and, Fig. 3 is a detail vertical section taken on line 3—3, of Fig. 1.

Referring to the drawings in which similar reference numerals designate corresponding parts throughout the several views, 1 indicates a door casing, which may be of the usual or any preferred form, such as is employed in connection with door-ways, windows and the like, and 2 indicates a frame, to which is secured in the usual or any preferred manner, screen wire 3.

The frame 2 is pivotally secured to the casing by means of my improved hinge 4, the leaves 5 and 6 of which are provided at their meeting ends with overlapping ears 7 and 8, respectively, said ears being provided with alining openings, through which extends a rod 9, and by which means the leaves are pivotally secured together.

The leaf 5 is secured to the frame 2 in any suitable manner, as by means of screws 10 and in order to readily disengage the frame from the casing when it is desired to store

the same, or for other reasons, I have provided means for readily securing the leaf 6 to the casing, which consists in providing the leaf 6 at its upper and lower edges with keepers 11, which are adapted to extend over and engage an offset stem 12 of a support 13, the lower end of the support being secured to the casing 1 in any preferred manner, as by introducing screws 14 through the support and into the casing, the lower edge of the leaf 6 resting on a shoulder 15 formed by offsetting said stem from the support. In this manner it will be readily seen that by swinging the frame 2 to its open position and lifting the same bodily, the keepers 11 will readily leave the stem 12, in which instance the door may be readily transported to any convenient point to be stored away, or the frame may be as readily attached to the casing by elevating the frame until the leaf 6 has reached a point above the upper end of the stem 12 and then lowering the frame until the stem has passed through the clips and the lower edge of the leaf 6 rested upon the shoulder 15.

The stem 12 is spaced a sufficient distance from the face of the casing 1 to snugly receive the leaf 6 and as said leaf extends at a distance to each side of the stem, the hinge will be securely held in position on the casing when properly mounted upon the stem.

In order to automatically swing the frame 2 to a closed position, after the same has been opened, I provide a standard 16, which is secured at its inner end to the leaf 5, while to the outer end of the standard is pivotally secured a plunger 17, the free end of the plunger being introduced through an angular extension 18 at the end of the leaf 6 and by placing the standard 16 in juxtaposition to the rod 9, it will be readily seen that the plunger 17 will be moved longitudinally through the extension 18 when the frame is swung outwardly or to an open position and by introducing a coil spring 19 around the plunger 17 between the standard 16 and extension 18, the longitudinal movement of the plunger will contract the spring 19 and increase the tension thereof, whereby when the door has been swung open and released, the reaction of the spring will immediately return the door to its closed position.

In applying the hinge to use, the leaf 5 is secured to the door 2 and the support 13 to the casing, when the door may be elevated to a point above the upper end of the stem



and the stem entered through the keeper by lowering the door. By this construction, it will be seen that the door may be readily attached to or removed from engagement  
5 with the casing and in view of the size of the support, it will not be necessary to disengage the same from the casing, as it will not materially mar the appearance of the casing, nor will the same project a sufficient dis-  
10 tance to cause an obstruction.

It will further be seen that the various parts of the hinge may be quickly and cheaply constructed, as they can be formed of heavy sheet metal and readily assembled.

15 What I claim is:

1. A hinge of the character described, comprising the combination with a pair of leaves, means to hingedly secure the leaves  
20 of a support secured to a fixed object and

having a stem extending therefrom adapted to enter said keepers and removably secure the leaf to said object.

2. A hinge of the class described comprising a pair of leaves, means for pivotally con- 25  
necting said leaves together, one of said leaves having vertical alining keepers and a support secured to a door frame and having an offset stem adapted to be seated in said  
keepers, the offset portion of said support 30  
forming a shoulder, upon which rests the bottom edge of one of said leaves.

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

PERRY C. MILLER.

Witnesses:

JOHN Q. CLINE,  
CLAUDE CLINE.