(No Model.)

G. SCHADE.

SELF LOCKING HINGE.

No. 598,647. Patented Feb. 8. 1898.

Fig. 1.

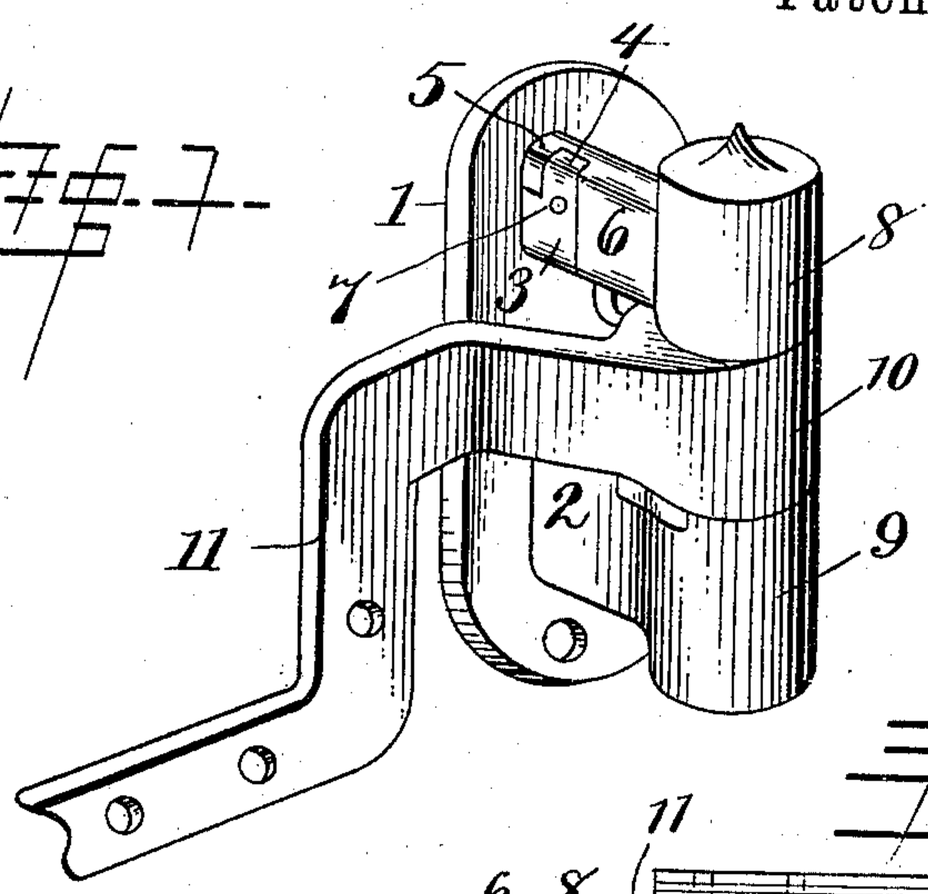


Fig. 2.

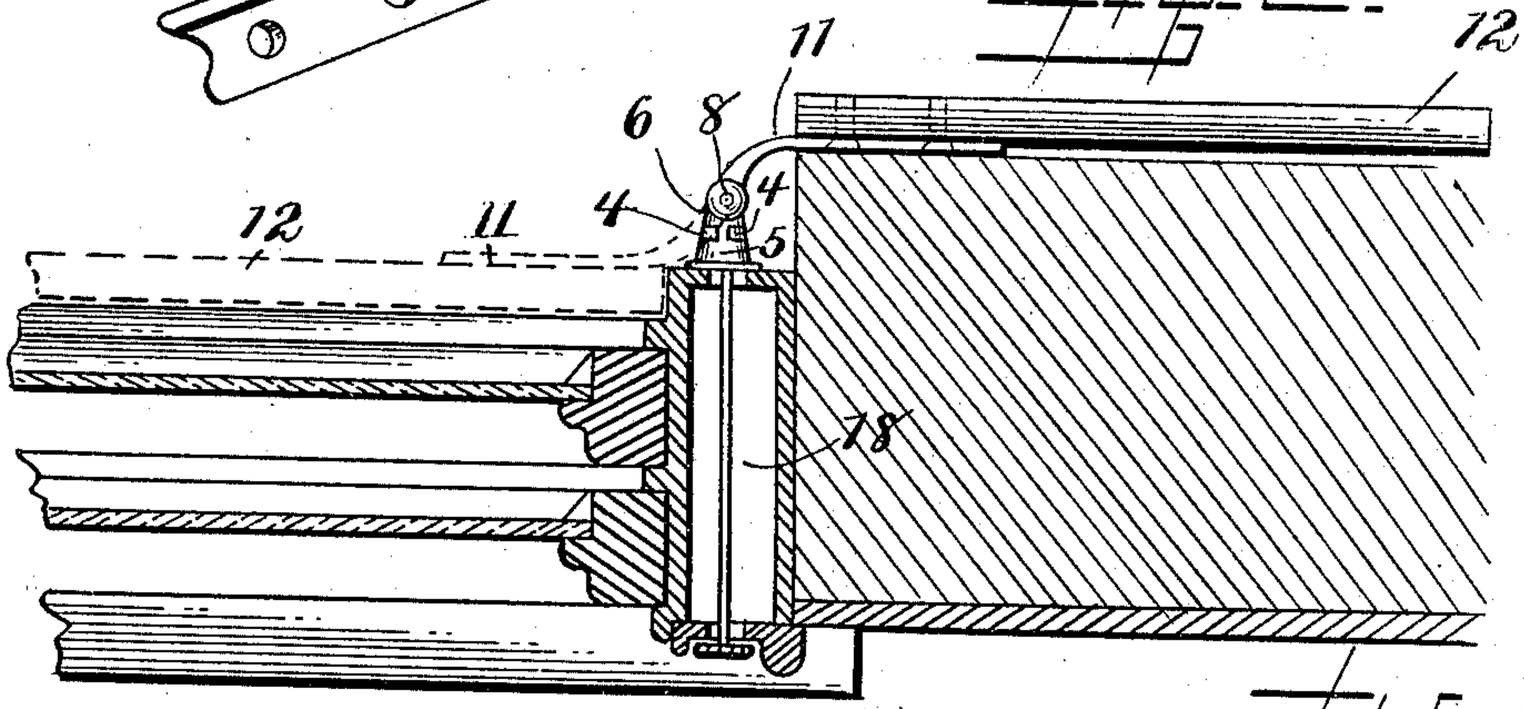


Fig. 4.

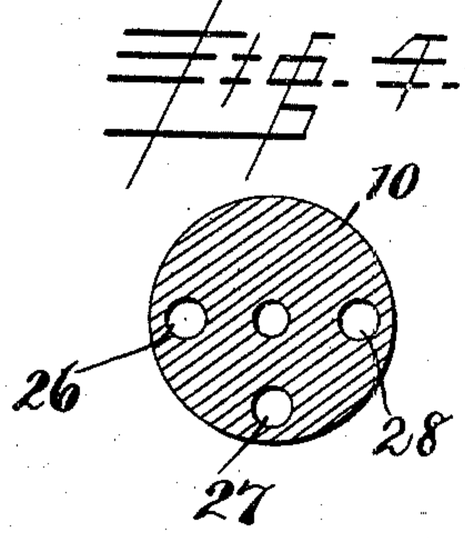
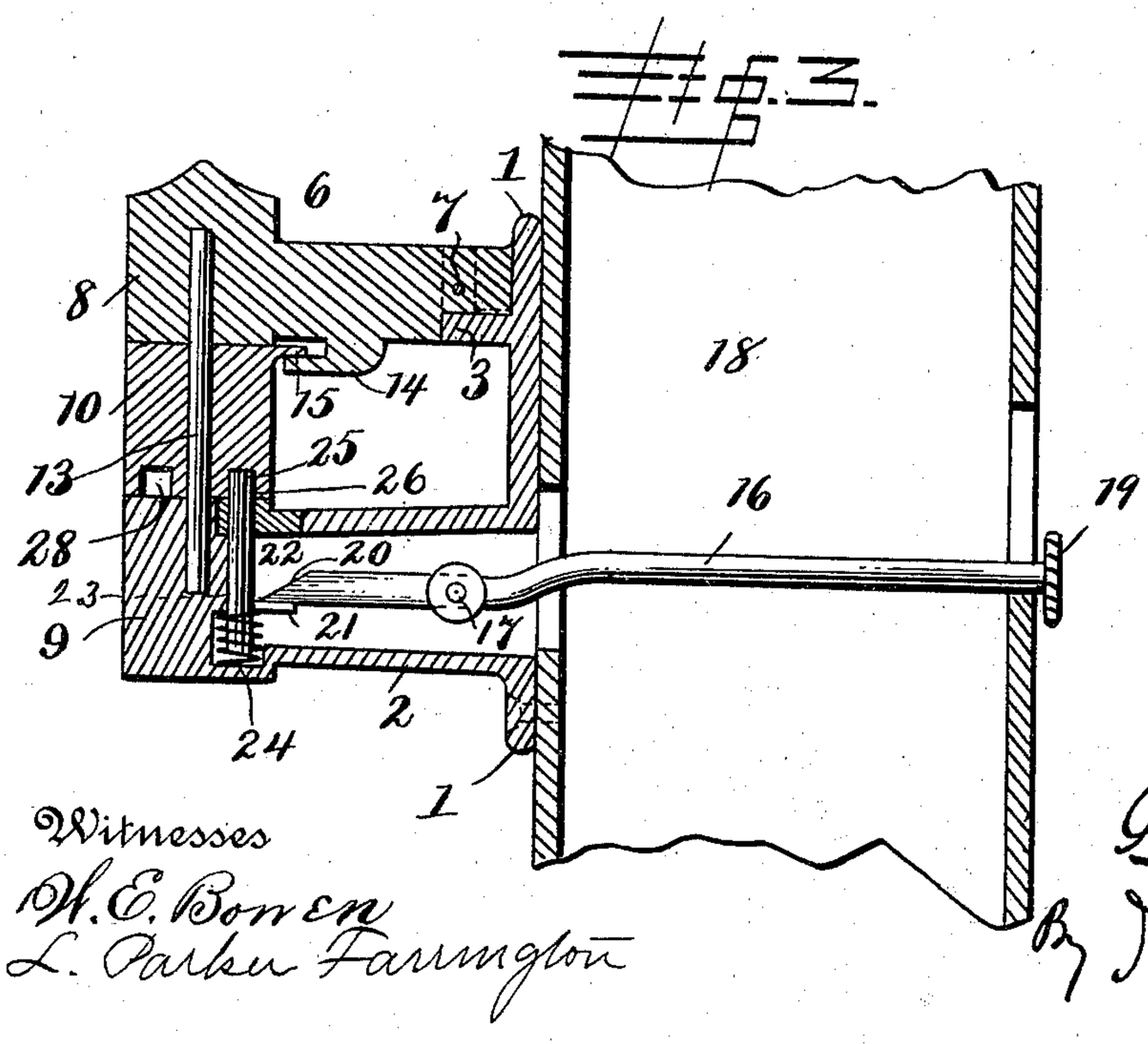


Fig. 3.



Witnesses
H. E. Borden
L. Parker Farrington

Inventor
George Schade
By Munn & Co
Attorney

UNITED STATES PATENT OFFICE.

GEORGE SCHADE, OF POUGHKEEPSIE, NEW YORK.

SELF-LOCKING HINGE.

SPECIFICATION forming part of Letters Patent No. 598,647, dated February 8, 1898.

Application filed June 10, 1897. Serial No. 640,166. (No model.)

To all whom it may concern:

Be it known that I, GEORGE SCHADE, a citizen of the United States, residing at Poughkeepsie, in the county of Dutchess and State of New York, have invented certain new and useful Improvements in Self-Locking Hinges for Shutters; 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 a novel form of self-locking hinge for shutters; and the object is to provide a simple and effective hinge whereby the shutter may be locked in an open or closed position and released only from the inside of the apartment.

To this end the invention consists in the construction, combination, and arrangement of the several parts of the device, as will be hereinafter more fully described, and particularly pointed out in the claims.

In the accompanying drawings the same reference characters indicate the same parts of the invention.

Figure 1 is a perspective view of my improved self-locking shutter-hinge. Fig. 2 is a horizontal section of the same as it appears in position with the shutter open and with the shutter closed, as shown in dotted lines. Fig. 3 is a vertical sectional view of the hinge and window-frame. Fig. 4 is a plan view of the hub of the hinged arm.

1 represents a bracket provided with an integral hollow arm 2 and a vertically-alined integral lug 3, formed with vertical parallel ears 4 4, which receive the T-shaped tongue 5 of the arm 6, which is removably fixed in said lug 3 by the rivet 7. The outer end of the arm 6 terminates in a vertical cylindrical socket 8, and the outer end of the fixed arm 2 also terminates in a corresponding alined socket 9, and between these two sockets is mounted the cylindrical hub 10 of the hinged arm 11, which carries the shutter 12.

13 represents a vertical spindle fixed in the sockets 8 and 9, and which forms a journal for the hub 10 to oscillate on.

14 represents an integral lug on the under side of the arm 6, and it engages the ear 15 on the hub 10 when the shutter is closed, to prevent the latter being raised or the arm 6 detached should the rivet 7 be removed.

16 represents a lever fulcrumed on a rivet 17, fixed in the hollow arm 2, and its longer arm extends through the window-frame 18 and terminates in a button 19 on the inside of said frame. The shorter arm of said lever 16 terminates in a pawl 20, which projects into the path of a lateral pin 21, fixed on a bolt 22, having a vertical movement in an orifice 23 in the socket 9. The lower end of said bolt is encompassed by a spiral spring 24, which normally presses said bolt upward, so that its projecting end 25 will engage one of the alined recesses 26, 27, or 28 in the bottom face of the hub 10 and lock the shutter in a closed or open position, as described. By raising the end 19 of the lever 16 its opposite end 20 presses the bolt 22 downward, so that its end 25 is flush with the upper plane face of the socket 9 and it is consequently withdrawn from the recess in the hub 10. The shutter may then be moved to the desired position by hand, when the bolt will engage the proper recess in the hub to lock the shutter in the position to which it has been adjusted, and when so adjusted and locked it can only be released by raising the button 19, located inside of the apartment.

While I have only shown three recesses 26, 27, and 28, which correspond to the position of the shutter when it is closed, half-way open, and entirely open, it is evident that additional recesses may be formed in the hub 10—as, for instance, one may be located between the recesses 26 and 27—so that the shutter may be bowed, if desired.

A shutter provided with a hinge of this character will be found practically burglar-proof when closed and will be found particularly applicable to all shutters located in exposed places.

Although I have specifically described the construction and relative arrangement of the several elements of my invention, I do not desire to be confined to the same, as such changes or modifications may be made as clearly fall within the scope of my invention without departing from the spirit thereof.

Having thus fully described my invention, what I claim as new and useful, and desire to

secure by Letters Patent of the United States, is—

1. A hinge of the class described, comprising the bracket 1, the parallel arms 2 and 6, the latter formed with an integral lug 14, in combination with the arm 11 pivoted between said parallel arms, and formed with a hub having an integral ear 15 adapted to engage said lug 14 when said hinge is closed, substantially as and for the purpose set forth.

2. A hinge of the class described, comprising the bracket 1, the hollow arm 2, formed integral therewith, and the solid arm 6 detachably secured thereto, and provided with the lug 14, and the vertical spindle 13 fixed in said arms, in combination with the arm 11, formed with a perforated hub 10 having the ear 15, whereby it is adapted to be pivoted on said spindle between the arms 2 and 6, and also to engage the lip 14, said hub being provided with one or more recesses 26, the vertical bolt 22, mounted in the arm 2, and adapted to engage said recess 26, and the lever 16 fulcrumed in said arm 2 and adapted to operate said bolt, substantially as and for the purpose set forth.

In testimony whereof I affix my signature in presence of two witnesses.

GEORGE SCHADE.

Witnesses:

IRVING ELTING,

BENJ. M. FOWLER.