G. D. WILSON.

SHUTTER HOLDER.

APPLICATION FILED FEB. 14, 1919.

1,309,382.

Patented July 8, 1919.

2 SHEETS—SHEET 1.

Fig. 1.

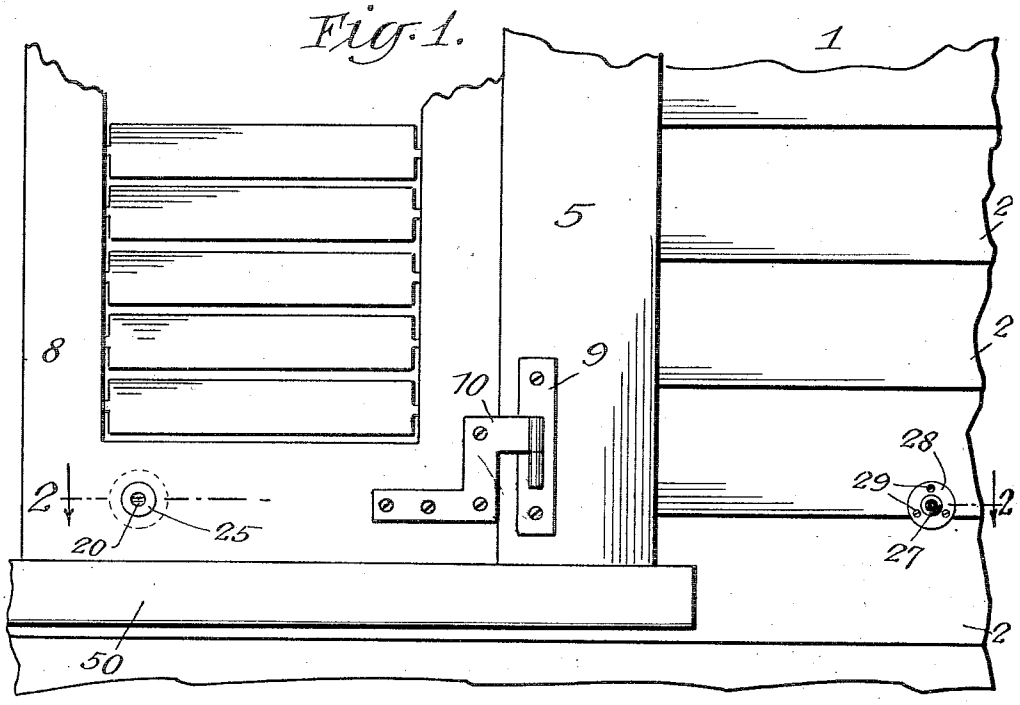
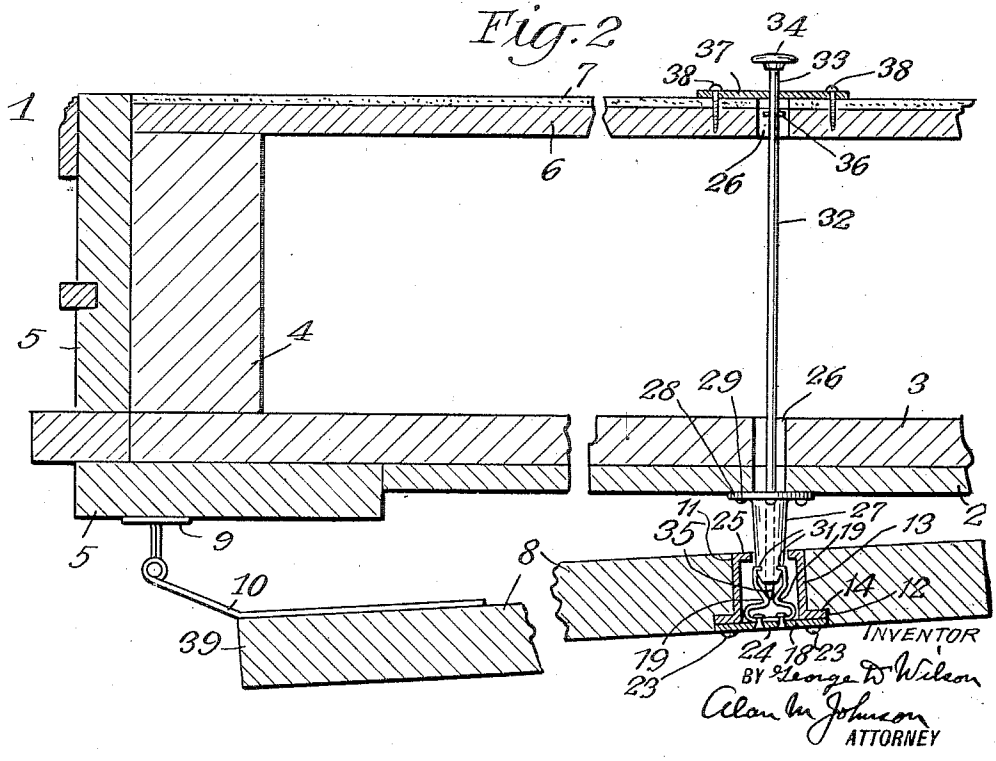


Fig. 2.



THE COLUMBIA PLANOGRAPH CO., WASHINGTON, D. C.

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2 SHEETS—SHEET 2.

Fig. 3.

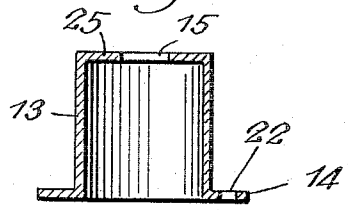


Fig. 6.

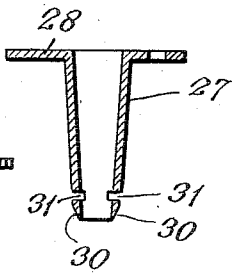


Fig. 10

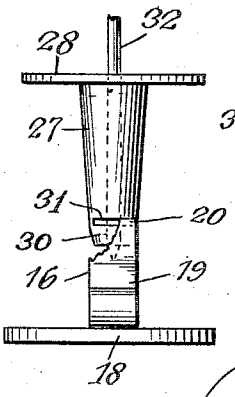


Fig. 4.

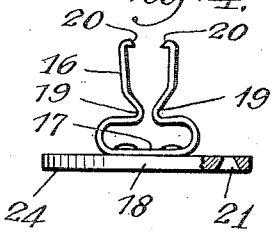


Fig. 7.

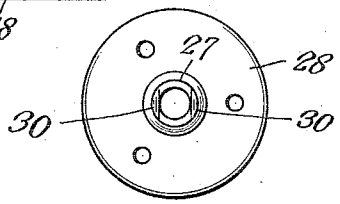


Fig. 5.

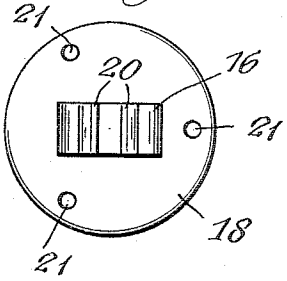


Fig. 9.

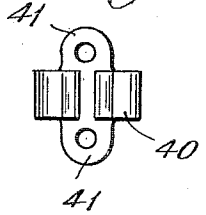
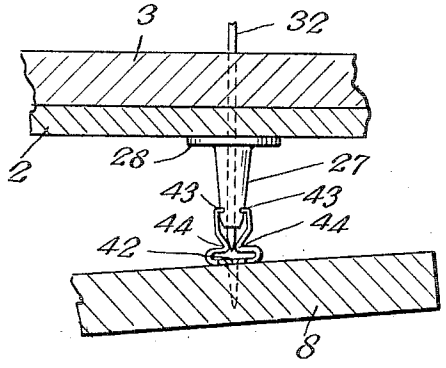


Fig. 8.



INVENTOR

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UNITED STATES PATENT OFFICE.

GEORGE D. WILSON, OF PLAINFIELD, NEW JERSEY.

SHUTTER-HOLDER.

1,309,382. Specification of Letters Patent. Patented July 8, 1919.

Application filed February 14, 1919. Serial No. 276,961.

To all whom it may concern:

Be it known that I, GEORGE D. WILSON, a citizen of the United States, residing at Plainfield, in the county of Union and State of New Jersey, have invented certain new and useful Improvements in Shutter-Holders, of which the following is a specification, taken in connection with the accompanying drawing.

My invention relates to shutter holders and more particularly to one which can be cheaply manufactured, easily installed, and one which will lock the shutter and prevent it rattling even in a high wind. More particularly my invention relates to such a shutter holder which can be released from the inside of the house.

My invention further relates to certain combinations and details of manufacture which will be more fully hereinafter described and pointed out in the claims.

Figure 1 is a side elevation of a portion of a house and shutter, showing my shutter holder in its inoperative position;

Fig. 2 is a horizontal sectional view substantially on the line 2—2 of Fig. 1, looking in the direction of the arrows, the spring and lug, for purposes of clearer illustration, being shown rotated ninety degrees from the preferred mounting;

Fig. 3 is a vertical section of a thimble which I preferably employ;

Fig. 4 is a side elevation partly in section, of a detail showing the preferred form of locking member.

Fig. 5 is a plan view of the spring and plate shown in Fig. 4;

Fig. 6 is a vertical section of the lug which is mounted on the house;

Fig. 7 is a plan view of the lug shown in Fig. 6;

Fig. 8 is a fragmentary sectional view of a modification;

Fig. 9 is a plan view of a detail shown in Fig. 8;

Fig. 10 is a plan view of the preferred manner of mounting my shutter holder.

In the ordinary house construction various means are employed to hold the shutters open. All of them are objectionable in that none of them prevent the rattling of the shutters in a high wind or storm. The noise of several shutters rattling is so objectionable to many house-holders that they customarily remove the shutters for the fall and winter months; the rattling in the summer time is not so constant. This of course entails additional labor and expense as the shutters have to be handled twice a year. Besides this the appearance of the house is often marred by removing the shutters. This not only gives the house an unfinished appearance, but the paint or stain back of the shutters will have a different shade from the rest of the house.

Some of the shutter holders now on the market require more or less cumbersome metal pieces to be secured on the window sill, and which make the complete shutter hanger comparatively expensive; besides they do not eliminate the rattling of the shutters. Other devices employ cams in the shutter hinges. These are objectionable in that they do not prevent the rattling of the shutter, for the wind, getting behind the shutter, will force the shutter away from the house slightly, causing the cams to move upon each other, and as soon as the pressure is momentarily reduced the shutter will bang back against the house keeping this up as long as the wind lasts. Other devices including pinions have been suggested but have not gone into general use on account of their high cost of manufacture, and high cost of installation, besides being very cumbersome. Other forms have also been suggested but have not met with success.

By my invention I absolutely insure that the shutter will be locked and will not rattle. A child pressing the release mechanism, which is mounted so that it can be operated from within the house, can release the shutter. This avoids the inconvenience, and often danger, of the house-wife or child leaning way out of the window to grasp the shutter at a sufficient distance from the hinge so that she can readily close the shutter; if, for example, it has any locking mechanism which has to be released from the exterior of the building, or where considerable force is required to move cams or inclined surfaces which may be embodied in the shutter hinge.

Most of the parts of my invention can be made out of stampings. When mounted they are inconspicuous, do not encumber the window sill, take up less space, and are less obtrusive than any other device of this character.

My invention may be applied to old houses or to those in process of construction with equal facility.

In the drawings corresponding numerals refer to similar parts throughout.

The house 1 is of the usual construction formed of clap boards 2, sheathing 3, studding 4, window frame 5, window-sill 50, lath 6 and plaster 7. The shutter 8 is mounted on the window-frame by the ordinary shutter hinges 9 and 10. In my preferred construction I bore a hole 11 in the shutter 8 and counter sink it at 12 for the reception of the thimble 13 with its flange 14. This thimble has an opening 15 opposite the flange 14. Mounted within this thimble is the locking member carried by the shutter. In my preferred construction this locking member is a spring 16 secured at 17 to a plate 18. The two ends of the spring are then bent toward each other to form the shoulders 19—19, and are then bent away from the shoulders until near the ends where they are bent sharply at right angles to each other to form the spring jaws 20—20.

The plate 18 which carries the spring 16 is preferably of the same diameter as the flange 14 of the thimble 13 and is provided with holes 21—21 which register with the holes 22—22 of the thimble permitting one set of screws 23—23 to secure both the thimble 13 and the plate 18 with its spring 16, within the shutter 8. The surface 24 of the plate 18 is preferably flush with the inside surface of the shutter, and the surface 25 of the thimble is preferably flush with the exterior surface of the shutter, Fig. 2.

With a small bit, or any other suitable tool, I bore a hole 26 through the clap boards 2, sheathing 3, lath 6 and plaster 7. Concentric with this opening 26 I mount a hollow lug 27 having a flange 28 which is secured to the clap boards, shingles or other exterior surfaces of the house, by screws 29—29. This lug at its other end has bevel surfaces 30—30 and back of them notches 31—31 to exactly fit the spring jaws 20—20 of the spring locking member 16. Within the opening 26 I mount a releasing rod 32 having one end 33 extending within the house and preferably provided with an ornamental head 34, its other end 35 being mounted within the hollow lug 27 and being adapted to engage the shoulders 19—19 to pry them apart when pressure is applied to the head 34. To prevent accidental removal of the rod 32 I preferably mount a pin 36 in it and cover the opening 26 in the house by an escutcheon plate 37 which may be secured in any suitable manner as by the screws 38. The head 34, plate 37 and the pin 36 permit a limited play for the rod 32.

To lock the shutter 8 in its open position, shown in Fig. 2, it is merely necessary to swing the shutter out when the end of the lug 27 will pass into the opening 15 of the thimble 11 and between the spring jaw 20—20 which will be sprung apart by the inclined surfaces 30—30 until the jaws come opposite the notches 31—31 when they will immediately spring into said notches and rigidly hold the shutter in its open position. To close the shutter a slight pressure upon the head 34 of the rod 32 will cause the end 35 of the rod to force the jaws 20—20 away from each other, which will immediately release the shutter permitting it to be readily closed by a slight pressure on the end 39 of the shutter without the necessity of leaning out of the window to reach some point farther from the hinge.

In Fig. 2 I have shown for purposes of clearer illustration, the jaws 20—20 and the notches 31—31, rotated ninety degrees from the preferred mounting. In the preferred mounting, that of Fig. 10, not only does the spring of the member 16 tend to prevent the jaws 20—20 from being released from the grooves 31—31, but these jaws 20—20 being of some length serve to positively engage the sides of the grooves and thereby further resist any unauthorized opening of the shutter, or any tendency that it may have to open due to a violent wind.

In Figs. 8 and 9 I have shown a modification embodying the simplest form of my invention. In this form a spring 40, Fig. 9, is provided with any suitable means, as ears 41—41, for the reception of screws 42 which are screwed directly to the back of the shutter 8 without being mounted on a plate member 18 or protected by a thimble such as 11, or concealed within the shutter as in Figs. 1 and 2.

In this form of my invention the jaws 43—43 are the same as the jaws 20—20 in the other construction, the shoulders 44—44 operate in the same manner as the shoulders 19—19 in the preferred construction.

Having thus described this invention in connection with illustrative embodiments thereof, to the details of which I do not desire to be limited, what is claimed as new and what is desired to secure by Letters Patent is set forth in the appended claims.

What I claim is:—

1. The combination in a shutter holder of locking means carried by the shutter, a cooperating hollow lug mounted on the house and provided with fixed locking surfaces to coöperate with locking means carried by the shutter, and a releasing rod mounted in the hollow lug and adapted to be operated from the interior of the house to release the said locking means.

2. The combination in a shutter holder of locking means carried by the shutter, a cooperating hollow lug mounted on the house and provided with rigid locking surfaces to coöperate with the locking means carried by the shutter, and a releasing rod mounted in the hollow lug and adapted to be operated

from the interior of the house to release the said locking means.

3. The combination in a shutter holder of spring locking means carried by the shutter having spring jaws, a coöperating hollow lug mounted on the house and provided with fixed locking surfaces to coöperate with the spring jaws carried by the shutter, and a releasing rod mounted in the hollow lug and adapted to be operated from the interior of the house to release the spring jaws from the fixed locking surfaces on the hollow lug.

4. The combination in a shutter holder of spring locking means carried in the body of the shutter having spring jaws also lying within the body of the shutter, a coöperating hollow lug mounted on the house and provided with fixed locking surfaces to cooperate with the spring jaws carried by the shutter, and a releasing rod mounted in the hollow lug and adapted to be operated from the interior of the house to release the spring jaws from the fixed locking surfaces on the hollow lug.

5. The combination in a shutter holder of spring locking means carried in the body of the shutter, engaging means mounted on the house, and releasing means adapted to be operated from inside the house to release the shutter.

6. The combination in a shutter holder of spring locking means carried in the body of the shutter, a coöperating hollow lug mounted on the house, and a releasing rod mounted in the hollow lug and adapted to be operated from the interior of the house to release the shutter.

7. A shutter holder as a new article of manufacture comprising a spring having spring jaws to be mounted on a shutter, a hollow lug to be mounted on a house having engaging surfaces to coöperate with the spring jaws, and a rod adapted to operate through the lug to release the spring jaws.

8. A shutter holder as a new article of manufacture comprising a thimble and spring having spring jaws to be mounted in the body of a shutter, a hollow lug to be mounted on a house having engaging surfaces to coöperate with the spring jaws, and a rod adapted to operate through the lug to release the spring jaws.

9. The combination in a shutter holder of a spring having a pair of locking jaws contained within the thimble, and a thimble, both the spring and thimble mounted within the body of the shutter, a hollow coöperating lug mounted on the house having engaging surfaces to coöperate with the spring jaws, and a rod mounted in the hollow lug having one end extending into the interior of the house and the other end adapted to spread the locking jaws of the spring to release them from the lug.

GEORGE D. WILSON.

Witnesses:
MABEL WILSON,
JAMES J. MCCANN.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."