(No Model.)

# M. F. GANO.

## SHUTTER FASTENER.

No. 574,795. Patented Jan. 5, 1897.

Fig. 1.

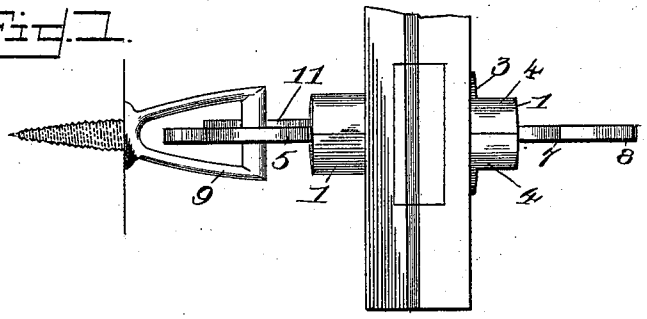



Fig. 2.

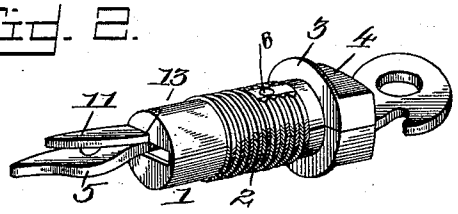



Fig. 3.

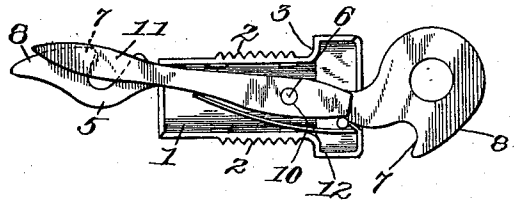
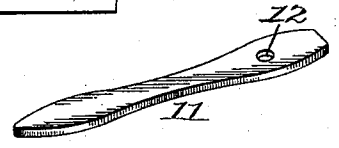



Fig. 4.




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# UNITED STATES PATENT OFFICE.

MANNING F. GANO, OF ANNANDALE, NEW JERSEY.

## SHUTTER-FASTENER.

SPECIFICATION forming part of Letters Patent No. 574,795, dated January 5, 1897.

Application filed March 20, 1896. Serial No. 584,131. (No model.)

*To all whom it may concern:*

Be it known that I, MANNING F. GANO, a citizen of the United States, residing at Annandale, in the county of Hunterdon and State of New Jersey, have invented a new and useful Shutter-Fastener, of which the following is a specification.

This invention relates to shutter-fasteners, and has for its object to provide in connection with shutter-fasteners such as are in common use at the present day an attachment in the nature of what may be termed an "antirattler," which will coöperate with the ordinary lever-hook of the fastener in such manner that all looseness or play between the lever-hook and the eye or keeper will be taken up and the disagreeable rattling of the blinds in windy weather obviated.

To this end the invention consists in a shutter-fastener having combined therewith an antirattler device of novel construction and arrangement, as hereinafter fully described, illustrated in the drawings, and finally pointed out in the claims hereto appended.

In the accompanying drawings, Figure 1 is a view in elevation showing the improved shutter-fastener in its applied position. Fig. 2 is a perspective view of the shutter-fastener detached and complete. Fig. 3 is a plan view of the same with one section of the case removed and shown in interior plan. Fig. 4 is a detail perspective view of the antirattler attachment.

Similar numerals of reference designate corresponding parts in the several figures of the drawings.

Referring to the accompanying drawings, 1 designates the case or housing of the shutter-fastener, which is made in two substantially equal and semicylindrical sections, each externally threaded, as indicated at 2, so as to form, when combined, a threaded cylindrical case, which may be inserted and screwed fast into and through an opening formed, preferably, near the lower outer corner of a window-blind in one of the stiles thereof. The case or housing 1 is provided with a circumferential flange 3 for regulating its position relatively to the blind, and is also provided with wrench-engaging surfaces 4, by means of which and with the aid of a wrench the fastener may be screwed in place.

5 designates the lever-hook, which is fulcrumed intermediate its ends within the housing and conveniently upon the same rivet 6 which holds the sections of the housing together. The lever-hook is extended at both ends beyond the ends of the housing and formed with hooks or catch-lips 7 and with beveled or inclined edges 8, facilitating the automatic engagement of said lever-hook, both with the keeper 9, attached to the wall of the house in position to be engaged by the hook when the blind is thrown open, and also with the usual keeper attached to the window-sill. The lever-hook is actuated by means of a leaf-spring 10, arranged within the housing, one end of said spring being held fast between suitable shoulders therein and the other free end bearing against the lever-hook and exerting its tension to press the lever-hook into engagement with its keepers. The construction thus far described does not differ from shutter-fasteners which are in every-day use at the present time.

11 designates the improved antirattling device, which consists of a metal bar having near one end a perforation 12, through which is received the rivet 6. This bar lies against and extends in parallel relation to the lever-hook and projects at one end out of and beyond the housing 1, the end wall of the housing being notched, as shown at 13, to permit the passage of such bar and acting in connection with the rivet 6 to hold said bar 11 stationary. The outer extremity of the bar 11 is also beveled or inclined and extended beyond the hook or catch lip of the lever-hook 5, so that upon coming in contact with the keeper the latter will engage between the inclined surfaces or edges of the lever-hook and the bar 11, deflecting the hook to one side until the hook finally snaps into engagement with the keeper. In this position the keeper will be engaged firmly between the bar 11 and the spring-actuated hook and will be confined between the point of the hook and an opposing shoulder 14, constituting the inner wall of the notch 15, the formation of which notch establishes the point or nose of the hook proper.

It will thus be seen that the keeper will be engaged on all sides by the bar 11 and lever-hook 5, and it will thus be impossible for any rattling to occur between the fastener and the keeper. The antirattler attachment may

be easily applied to the fastener, will add very little to the cost of the same, and will add greatly to its marketable value. It will be apparent that the antirattling device may be applied to other fasteners than the one described, and that changes in its form, proportion, and minor details of construction may be resorted to without departing from the spirit or sacrificing any of the advantages of this invention.

Having thus described the invention, what is claimed as new is—

1. In a shutter-fastener, a pivoted lever-hook, in combination with a stationary bar arranged in a plane parallel with and at one side of said hook, the said bar being provided with an inclined and tapering working edge set obliquely to the path in which the fastener moves, substantially as described.

2. In a shutter-fastener, a cylindrical case divided diametrically and longitudinally into similar sections one of which has a notch formed in its end wall, in combination with a lever-hook mounted on a pivot within said case, and a stationary bar arranged at one side of said hook and extending obliquely, said bar being fixedly engaged at one point by the pivot of the hook and at another point by the notch in the case, substantially as described.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in the presence of two witnesses.

MANNING F. GANO.

Witnesses:
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