

(No Model.)

A. P. MERRILL.
SHUTTER SPRING.

No. 460,646.

Patented Oct. 6, 1891.

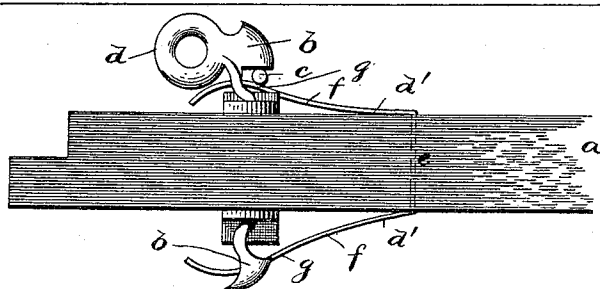


Fig. 1.

Fig. 2.

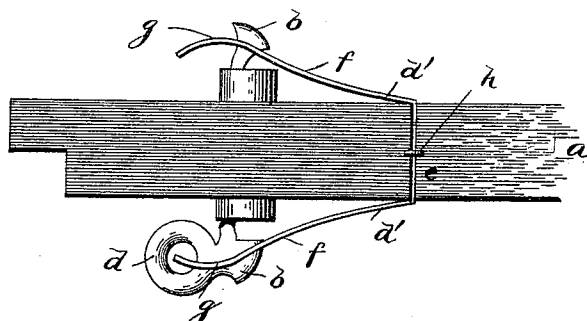
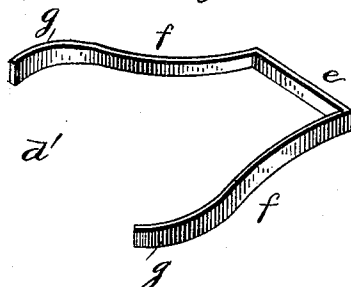


Fig. 3.



WITNESSES:

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INVENTOR

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UNITED STATES PATENT OFFICE.

ANSON PARKER MERRILL, OF FALL RIVER, MASSACHUSETTS, ASSIGNOR
OF ONE-HALF TO CHARLES A. HICKS, OF SAME PLACE.

SHUTTER-SPRING.

SPECIFICATION forming part of Letters Patent No. 460,646, dated October 6, 1891.

Application filed January 7, 1891. Serial No. 376,964. (No model.)

To all whom it may concern:

Be it known that I, ANSON PARKER MERRILL, of Fall River, in the county of Bristol and State of Massachusetts, have invented certain new and useful Improvements in Shutter-Springs; and I do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form part of this specification.

This invention relates to certain improvements in shutter-springs.

The object of the invention is to provide an improved shutter-spring which will form an elastic stop for a shutter and will prevent the shutter from rattling when secured either open or closed, will prevent slamming of the shutter, and will also, by exerting an outward pressure against the shutter, hold the fastening devices secure against accidental displacement. These objects are accomplished by and this invention consists in certain novel features of construction and in combinations of parts, more fully described hereinafter, and particularly pointed out in the claims.

Referring to accompanying drawings, Figure 1 is a top plan of a portion of the shutter, showing the same fastened or locked. Fig. 2 is a bottom plan of the same, having the shutter as released; and Fig. 3 is a detail perspective of the spring.

In the drawings, the reference-letter *a* indicates a blind provided with any suitable fastener *b*, preferably automatic, that will lock the blind to pin or other suitable means *c*, secured to the sill or outer side of the house, to lock the blind when swung, closed, or entirely open. This fastening can be provided with handle *d* for releasing it.

d' indicates the cushioning or shutter spring. This spring is formed integral of a single piece of, preferably, flat spring metal bent into substantially the shape of a **U**, as shown, so as to form the straight cross bar or piece *e* and the two branching spring-arms *f*, having bearing-surfaces *g* on the outer sides

of their ends. A transverse slot is cut in the under edge of the shutter, and the cross-bar of the spring is inserted therein, said cross-bar being slightly longer than this slot. The cross-bar is held in the slot by any suitable means, such as a staple *h*, as shown, or by friction, or in any other suitable manner. The spring is so secured to the shutter that its spring ends extend toward and beyond the fastener, preferably below the same.

The spring is so secured to the shutter, as herein described, that when the shutter is thrown back parallel with the wall of the building it will bear against the hook or pin engaged by the fastening device and force the shutter away from said wall, thus causing the fastener to hold firmly against the hook or pin and prevent rattling or shaking, and in the same manner when the shutter is closed the other arm of the spring will bear against the hook or pin on the sill and hold the shutter in the same manner as when open. A flat metal spring is preferably employed having a rounded outer end, as such a spring possesses many and obvious advantages over coil-wire spring or other blocks such as heretofore employed.

I do not herein claim a shutter-spring composed of a coiled wire, a separate coiled wire being provided for each side of the shutter.

It is evident that this peculiar spring can be made and sold independently as an article of manufacture and applied to any shutter having a suitable catch.

This invention is not limited to any particular kind of a fastener or catch, but consists in the spring.

Having thus fully described my invention, what I claim, and desire to secure by Letters Patent, is—

1. A shutter having a catch, and the herein-described shutter-spring formed of a single piece of metal and composed of the straight cross-bar by which the spring is secured and the two opposite branching horizontal arms on opposite sides of the shutter and intersecting the vertical plane containing the catch and located in proximity to the catch, as and for the purposes set forth.

2. The combination, with the shutter having
a fastening device and the transverse slot in
its lower edge, of the shutter-spring consist-
ing of the single piece of metal having the
5 straight portion located in said slot and the
two branch arms on opposite sides of the
shutter, as set forth.

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

ANSON PARKER MERRILL.

Witnesses:

J. W. FLAHERTY,

J. S. SAFFORD.