# R. HAYDEN.
## SHUTTER-FASTENERS.

No. 194,774. Patented Sept. 4, 1877.

*Fig. 1.*

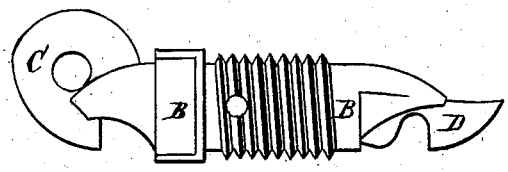



*Fig. 2.*

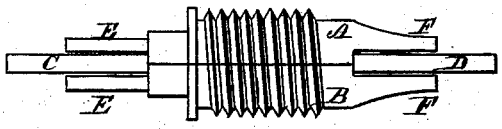
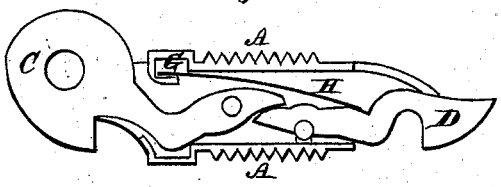



*Fig. 3.*




*Witnesses.*

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# UNITED STATES PATENT OFFICE.

RANDOLPH HAYDEN, OF MIDDLETOWN, CONNECTICUT.

## IMPROVEMENT IN SHUTTER-FASTENERS.

Specification forming part of Letters Patent No. **194,774**, dated September 4, 1877; application filed July 13, 1877.

*To all whom it may concern:*

Be it known that I, RANDOLPH HAYDEN, of Middletown, in the county of Middlesex and State of Connecticut, have invented certain new and useful Improvements in Shutter-Fastenings; and I do hereby declare that the following is a full, clear, and exact description thereof, whereby a person skilled in the art can make and use the same, reference being had to the accompanying drawing, and to the letters of reference marked thereon.

Like letters in the figures indicate the same parts.

My improvement relates to blind and shutter fastenings, for the purpose of holding them open or shut.

It has for its object the providing of a rest to support the blind or shutter when hooked open or shut, so that it cannot sag, and also to provide a better spring for operating the hooks than has heretofore been employed.

My invention consists in extending the two ends of the shell or case horizontally outward upon the sides of the hooks, with an inclined or curved under side, so that when the shutter is hooked open or shut these parts rest upon the staples or other loops into which the hooks pass, and thereby support the weight of the shutter. This part of my invention is particularly applicable to such fastenings as are provided with hooks which detach by a motion upward, as in the double-lever fastening shown in the drawings.

My invention also consists in the peculiar method of attaching a flat or leaf spring in the inside of the double case, which allows of a flat spring being used in place of the wire spring now commonly employed, all as hereinafter more fully described and claimed.

In the accompanying drawing, Figure 1 is a side view of a shutter-fastening embodying my improvements. Fig. 2 is a top view of the same. Fig. 3 is an interior view with one side of the shell or case removed.

A and B are the two sides of the shell or case which contains the working parts. They are held together by a screw or rivet, which forms the pivot for one of the hooks. Upon the outside of these two halves is a screw-thread, intended to be screwed into a hole through the thickness of the shutter. The end of the case is flattened upon two sides, so that it can be easily turned in with a wrench. C and D are the hooks, arranged, as shown in the drawing, to both open upward, so that my improvement can be applied to both ends of the case.

E E are projections from the case upon each side of the hook C, extending out past the staple or projection from the building, and resting upon it when the hook C is engaged with the said staple. F F are similar projections from the other end of the case, one on each side of the hook D, and operating in the same manner as the projections E at the other end of the case, as has been before described.

The under sides of the projections E and F are shown of a curved form in the drawing, but they may be an inclined plane, or any other shape that will be best adapted to be retained upon the staple and support the weight of the shutter when it is open or closed. G is a cell, formed partly in each of the two halves of the case. This cell is for the purpose of holding the end of a flat or leaf spring, which is placed within it before the two parts are put together and riveted. The spring H is held from moving laterally by the bottom of each part of the cell, and rests against its walls in such a manner as to press downward with its free end upon the hook D. By this means a flat spring can be used with the double case, and be held securely in its position when the parts are together without any soldering or other attachment, and thereby avoiding danger of displacement and breakage.

What I claim as my invention is—

1. The projections E E and F F from the two ends of the horizontal case or shell, adapted to rest upon the staples or loops, for supporting the weight of the shutter, substantially as herein described.

2. The cell G, formed in the two halves of the case A and B, for holding the end of a flat spring, H, substantially as herein described.

RANDOLPH HAYDEN.

Witnesses:

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JOHN T. PETERS.