A. Hyde,

Shutter Fastener.

No. 37,625. Patented Feb. 10, 1863.

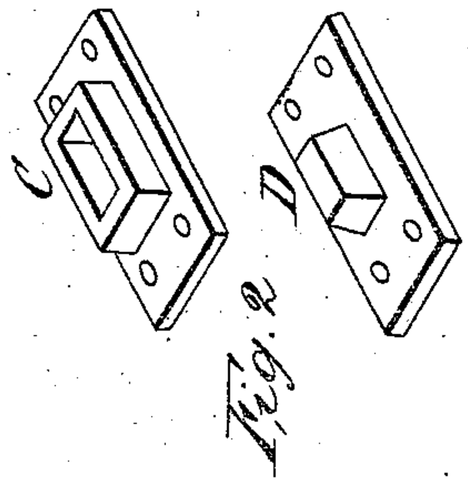

Fig. 2

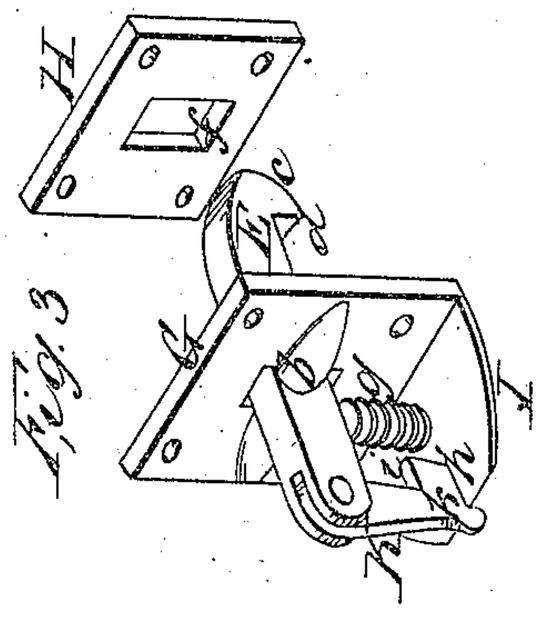

Fig. 3

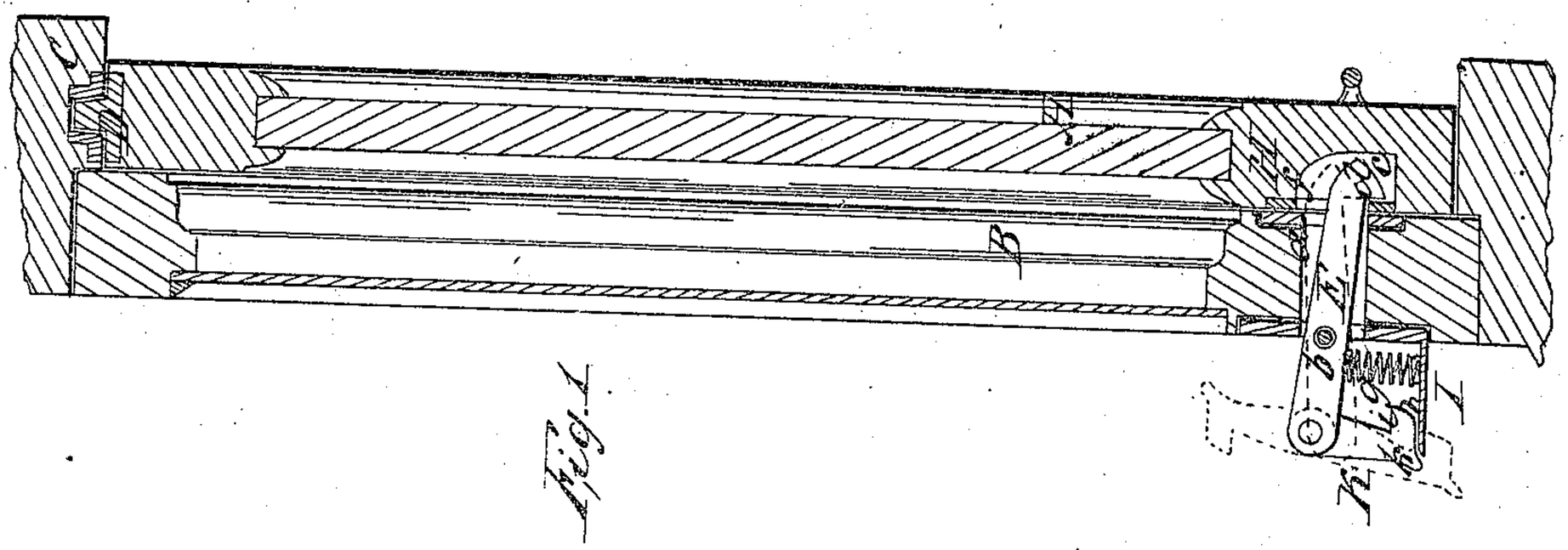

Fig. 1

Witnesses
Chas F. Spencer
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by J. Fraser Lee, Atty

UNITED STATES PATENT OFFICE.

AMBROSE HYDE, OF LIMA, NEW YORK.

IMPROVEMENT IN SHUTTER-FASTENINGS.

Specification forming part of Letters Patent No. **37,625**, dated February 10, 1863.

To all whom it may concern:

Be it known that I, AMBROSE HYDE, of Lima, in the county of Livingston and State of New York, have invented a new and useful Improvement in Shutter-Fastenings; and I do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawings, making part of this specification.

Figure 1 is a central section of a shutter as applied to a window, provided with my improved fastening; Fig. 2, a perspective view of the parts composing the upper fastening, detached; Fig. 3, a perspective view of the parts composing the lower fastening, detached.

Like letters indicate corresponding parts in all the figures.

The shutter A is of ordinary shape and construction, and its fastening at the top, in front of the window B, is effected by means of a socket, C, resting in the wood-work above, in which socket fits a tongue, D, secured to the top of the shutter, the device being the same as that in general use.

In the simplest ordinary arrangement the lower fastening consists of a screw-bolt passing inward from the shutter through the wood-work and having a nut screwing on its end. In the use of this device it is difficult for a single person to secure the shutter, one being required to hold the same in place on the outside while another turns the nut of the bolt on the inside. The action of securing is also very slow; and when the nut is detached for removing the shutter it is liable to become lost, being thus the source of much trouble.

It is the object of my invention to obviate these difficulties by producing a fastening which will hold the shutter by a catch that is at all times secure, and by the use of which the action of securing in place may be accomplished by a single person, with but small loss of time and labor.

To this end the wood-work behind the shutter has a hole or passage, *a*, through which passes from the inside a catch or lever, E, of suitable length for the purpose designed, and pivoted at *b* most conveniently to a metallic plate, G, by which it is secured in place by means of screws or otherwise. The forward or outer end of the catch is formed into a head, made wedge-shaped or rounding on its under side, as represented at *c*, and having a shoulder or hook, *d*, at the proper position to act as the catch. In a corresponding position in the contiguous side of the shutter is an eye, *f*, or its equivalent, for the reception of the head of the catch, made most conveniently in a metallic plate, H, secured to the shutter by means of screws or otherwise, as represented. The eye is made of sufficient size to allow the catch to rise in it to a proper degree to unlock the device. Instead of this eye, it is apparent that a rigid inverted catch might be used with the same effect.

At a suitable position under the rear or inner end of the catch E is situated a horizontal base or projection, I, projecting to about the same extent as the end of the catch above, as clearly represented in Figs. 1 and 3. Between the base and catch, in the rear of the pivot of the latter, is situated a coiled spring, *g*, or its equivalent, of sufficient stiffness to keep the head of the catch down to engage with the eye of the shutter, but yielding when the head of the catch is raised for disengaging the parts.

In the rear extremity of the catch E is jointed a detent or lock-catch, K, having a turning motion of half a circle or more in its bearing, so that it can hang pendent or be turned up in a self-supporting position. The lower end of this detent is formed into a right-angled head, *k*, and it bears just such relation to the catch E and base I that when the former is engaged with the eye of the shutter, and consequently when the rear end of said catch is in its highest position, the bottom *h* of the detent shuts in and rests on the upper surface of the end of the base, as indicated by black lines in Figs. 1 and 2; but when the shutter is disengaged from the catch, and the rear end of the latter is in its lowest position, the upper edge, *i*, of the head of the detent catches under the end of the base, to hold it in that position, as indicated by red lines in Fig. 1. When it is desirable for the catch to remain in position to engage automatically with the eye of the shutter, the detent is raised in the position indicated by dotted lines in Fig. 1.

In securing the shutter its upper end is first fastened by engaging the tongue D with the socket C. The lower end is then carried inward till the bottom of the eye *f* strikes against the wedging head of the catch, which springs into place, securing the parts together. The

detent K is then turned with its head resting over the end of the base, thus bracing the catch against any vertical motion, and securely retaining it in a rigid position against any outside action. When the shutter is to be removed, the detent is changed from this position and hooked under the end of the base, thus disengaging and holding the catch while the operator can go outside and remove the shutter. Then, by releasing the detent and turning it into an upright position again, the catch is in the condition for automatic action once more.

The detent thus answers a double purpose, and renders the device most effective and safe, while a single person is enabled to perform all the action of securing and removing the shutter without difficulty and with great economy of time and labor. The device is very cheap and in simple form for the trade, and can be applied to ordinary shutters in general use.

What I claim as my invention, and desire to secure by Letters Patent, is—

The double-acting detent K, in combination with the catch E and base I, when so arranged as to either lock the said catch in a rigid position to hold the shutter in place or to retain it disengaged while the shutter is removed, and operating substantially as herein specified.

In witness whereof I have hereunto signed my name in the presence of two subscribing witnesses.

AMBROSE HYDE.

Witnesses:
H. J. WOOD,
E. A. NASH.