Dec. 27, 1932. J. E. EDGIN 1,892,613

GATE AND DOOR LATCH

Filed Nov. 3, 1930

Fig. 1.

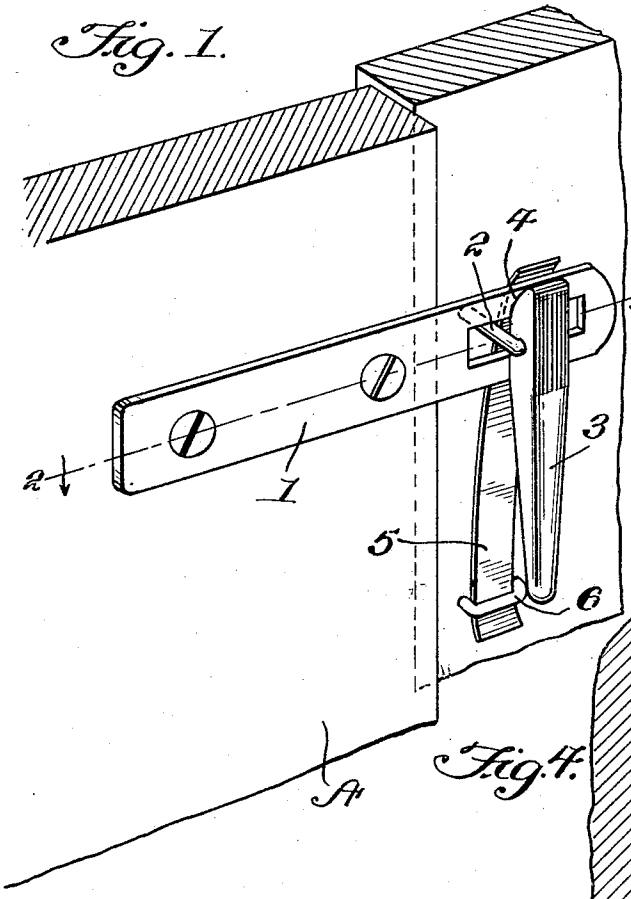


Fig. 3.

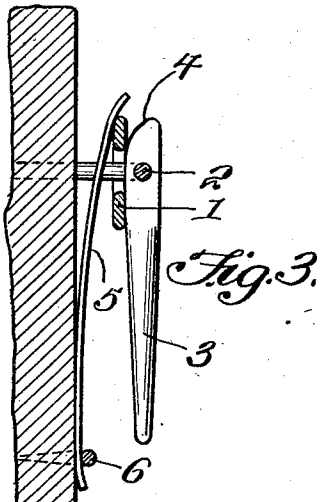


Fig. 4.

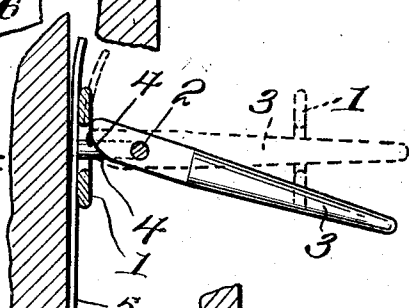


Fig. 2.

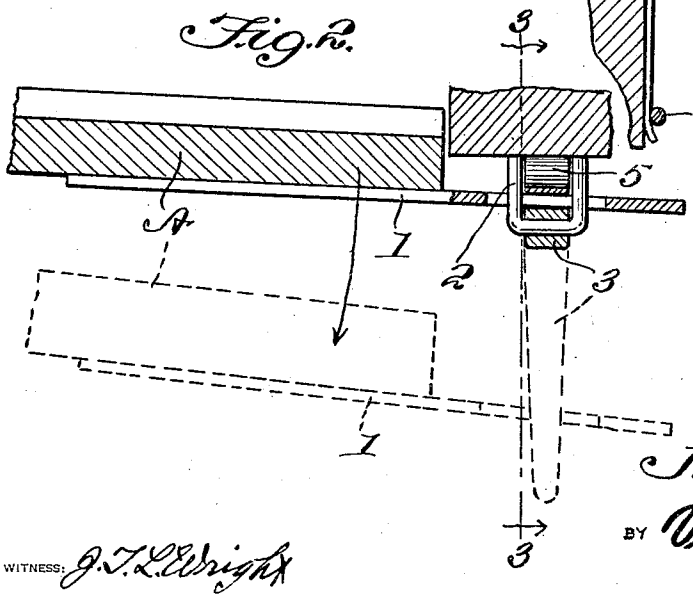
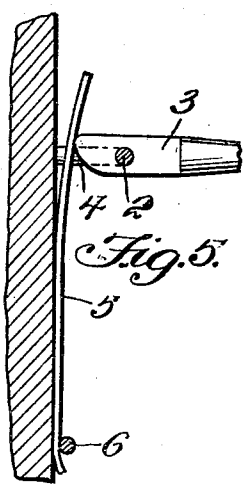


Fig. 5.



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Patented Dec. 27, 1932

1,892,613

UNITED STATES PATENT OFFICE

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GATE AND DOOR LATCH

Application filed November 3, 1930. Serial No. 493,121.

This invention relates to a latch for gates, doors and the like, the general object of the invention being to provide latch means of simple construction and one which can be easily and quickly operated and which will firmly hold the barrier closed when in operative position.

This invention also consists in certain other features of construction and in the combination and arrangement of the several parts, to be hereinafter fully described, illustrated in the accompanying drawing and specifically pointed out in the appended claim.

In describing the invention in detail, reference will be had to the accompanying drawing wherein like characters denote like or corresponding parts throughout the several views, and in which:—

Figure 1 is a perspective view showing the invention in use.

Figure 2 is a section on line 2—2 of Figure 1.

Figure 3 is a section on line 3—3 of Figure 2.

Figure 4 is a view similar to Figure 3, but showing the parts in releasing position in dotted lines and partly in releasng position in full lines.

Figure 5 is a view showing the lever in extended position and engaging the spring to show how the parts are arranged when the barrier is in open position.

In these views, the numeral 1 indicates the hasp which is connected with the door, gate or other barrier A. The numeral 2 indicates the staple on the door or gate frame which is adapted to pass through the slot in the hasp and 3 indicates a latch lever pivoted to the staple by having a hole a slight distance from its enlarged end through which the bight of the staple passes. This enlarged end is of cam shape, as shown at 4, so that as it is swung upwardly, the cam part, engaging the hasp, will push the same inwardly until the lever is in alignment with the slot in the hasp so that the hasp can be passed over the lever to open the door or gate. The outer part of the lever is also of tapered formation so that it will readily pass into the slot when the hasp is being moved to closed position.

A leaf spring 5 is fastened at its lower end to the frame by a staple 6 and the upper end of the spring passes through the staple and engages the hasp and tends to hold the hasp against the lever, as shown in Figures 1 and 3.

From the foregoing it will be seen that when the door or barrier is to be unlatched, it is simply necessary to swing the door upwardly so that its cam end will push inwardly the hasp against the action of the spring, after which the end of the lever will enter the slot in the hasp. The hasp can then be passed over the lever in th opening operation of the barrier. The spring, engaging the cam part of the lever, will hold the lever in horizontal position, as shown in Figure 5, so that the slot in the hasp can be passed over the lever when the barrier is being closed.

It is thought from the foregoing description that the advantages and novel features of the invention will be readily apparent.

It is to be understood that changes may be made in the construction and in the combination and arrangement of the several parts, provided that such changes fall within the scope of the appended claim.

What I claim is:—

The combination of a hasp, a staple engageable with the hasp, a leaf spring fixed at one end and having its opposite free end passed through the staple to tension the said hasp for urging the same outwardly from the staple when engaged therewith, and a lever swingingly supported by the staple and having its axis of movement close to one end thereof and adapted to be shifted to align with said staple to permit the hasp to ride from the latter off said lever, the said lever being formed with a cam end next to its axis of movement to engage the spring to push it away from the hasp when the lever is in alignment with the staple whereby the spring may hold the lever substantially in alignment with the staple.

In testimony whereof I affix my signature.

JAMES E. EDGIN.