

No. 848,515.

PATENTED MAR. 26, 1907.

H. TYSINGER.
LATCH.

APPLICATION FILED JUNE 2, 1906.

Fig. 1.

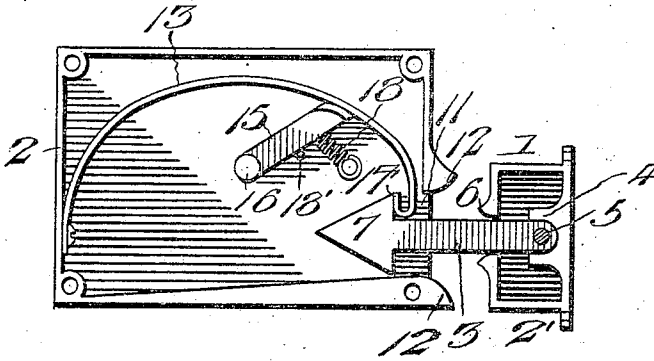


Fig. 2.

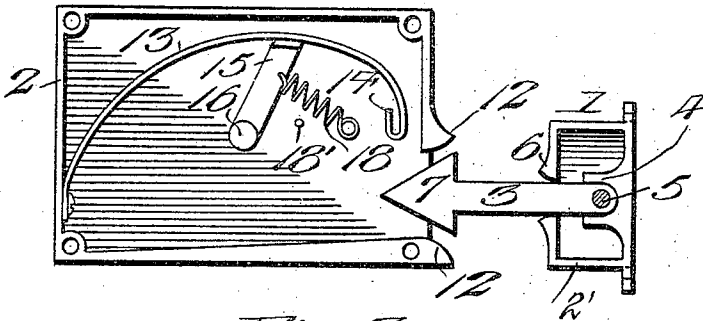
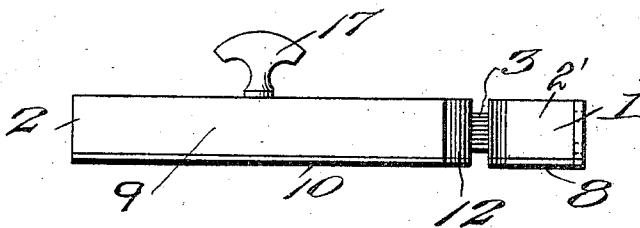


Fig. 3.



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HERBERT TYSINGER, OF LITTLE ROCK, ARKANSAS.

LATCH.

No. 848,515.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, HERBERT TYSINGER, a citizen of the United States of America, residing at Little Rock, in the county of Pulaski and State of Arkansas, have invented new and useful Improvements in Latches, of which the following is a specification.

This invention relates to improvements in latches for gates and doors, its object being to provide a latch which embodies improved features of construction and which is simple, strong, and durable and adapted to be inexpensively manufactured.

In the accompanying drawings, Figure 1 is a front elevation of a latch embodying my invention, showing the members thereof connected, the face-plates being removed. Fig. 2 is a similar view showing the members of the latch disconnected. Fig. 3 is a top plan view of the latch.

The latch comprises a bolt member 1 and a keeper member 2. The member 1 embodies an attaching-bracket 2', formed with a chamber or receptacle to receive the inner end of the shank of the bolt 3, which is fulcrumed to a lug 4 therein by a pivot-pin 5. The shank extends outwardly through an aperture 6 in the outer side wall of said chamber and is provided at its free end with an arrow-shaped locking-head 7. The upper and lower walls of the aperture 6 are rounded and the aperture made of sufficient size to permit of the bolt-shank having a slight degree of pivotal play therein. The front of the chamber is closed by a suitably-secured face-plate 8.

The keeper member 2 comprises a casing 9, closed at its open side by a face-plate 10. One of the end walls of this casing is formed with an opening 11 for the admission and withdrawal of the head of the latch-bolt, the upper and lower walls of said opening being formed with curved or beveled guiding-surfaces 12 to guide the head in its entrance thereto. Secured at one end to the opposite end wall of the casing is a bowed or curved locking-spring 13, the free end of which is bent to form an engaging member 14 to engage one of the shoulders of the bolt-head, as

shown in Fig. 1, to hold the bolt confined in the keeper-casing. The member 14 is adapted to move into locking engagement by the tendency to downward movement of the spring and is designed to be retracted by an arm 15. The arm 15 has a curved or cam-shaped free end to engage the under side of the spring and is pivoted to the casing by a stem 16, projecting to the exterior and carrying a finger-piece 17. A spring 18 is provided to retract the arm 15 and allow the locking-spring to normally assume a locking position, and said arm is limited in its retracting movement by a suitable stop 18'.

When the head 7 of the bolt enters the casing 9, the engaging member 14 rides on the upper inclined face thereof and then snaps into engagement with the cooperating bolt-shoulder. By manipulating the finger-piece 17 the arm 15 may be thrown upward to retract the locking-spring in an obvious manner and permit of the withdrawal of the bolt. The form of the head 7 permits the bolt to be used in reversed positions.

It will be seen that the invention provides a simple form of latch which is effective in operation and capable of being manufactured at a low cost.

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

A latch comprising a bracket, a bolt pivoted thereto and provided with an arrow-shaped locking-head, a keeper-casing having an opening for the insertion and withdrawal of the locking-head, a locking-spring secured at one end to the casing and having its free end formed with a locking member to engage said locking-head, a spring-retracted arm pivotally mounted in the casing and adapted to be operated to retract said locking member, and means for operating the arm.

In testimony whereof I affix my signature in presence of two witnesses.

HERBERT TYSINGER.

Witnesses:

M. J. KENNEY,
G. W. MOON.