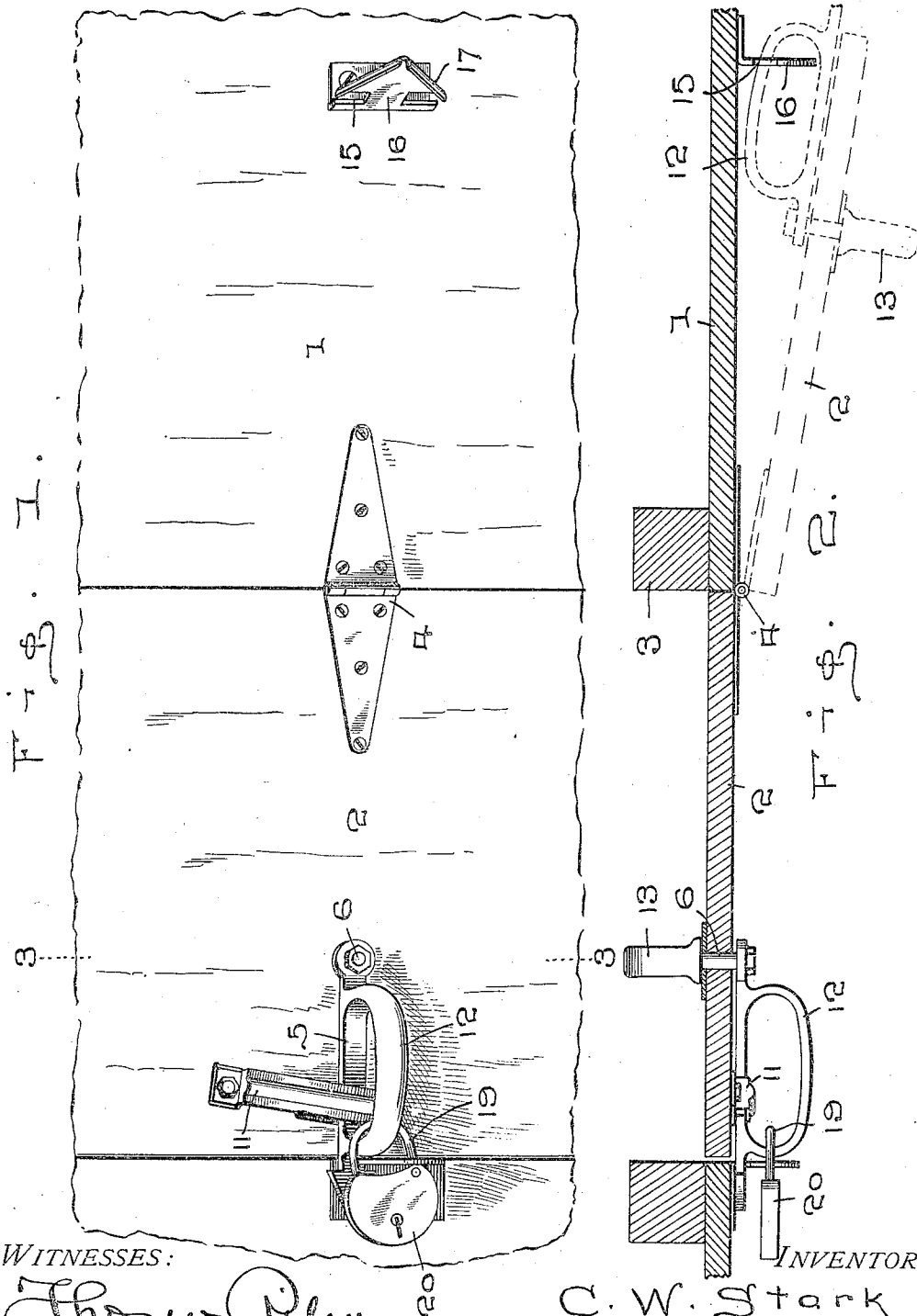


942,470.

Patented Dec. 7, 1909.

2 SHEETS—SHEET 1.



WITNESSES:

Thomas Riley
M. A. Newcomb

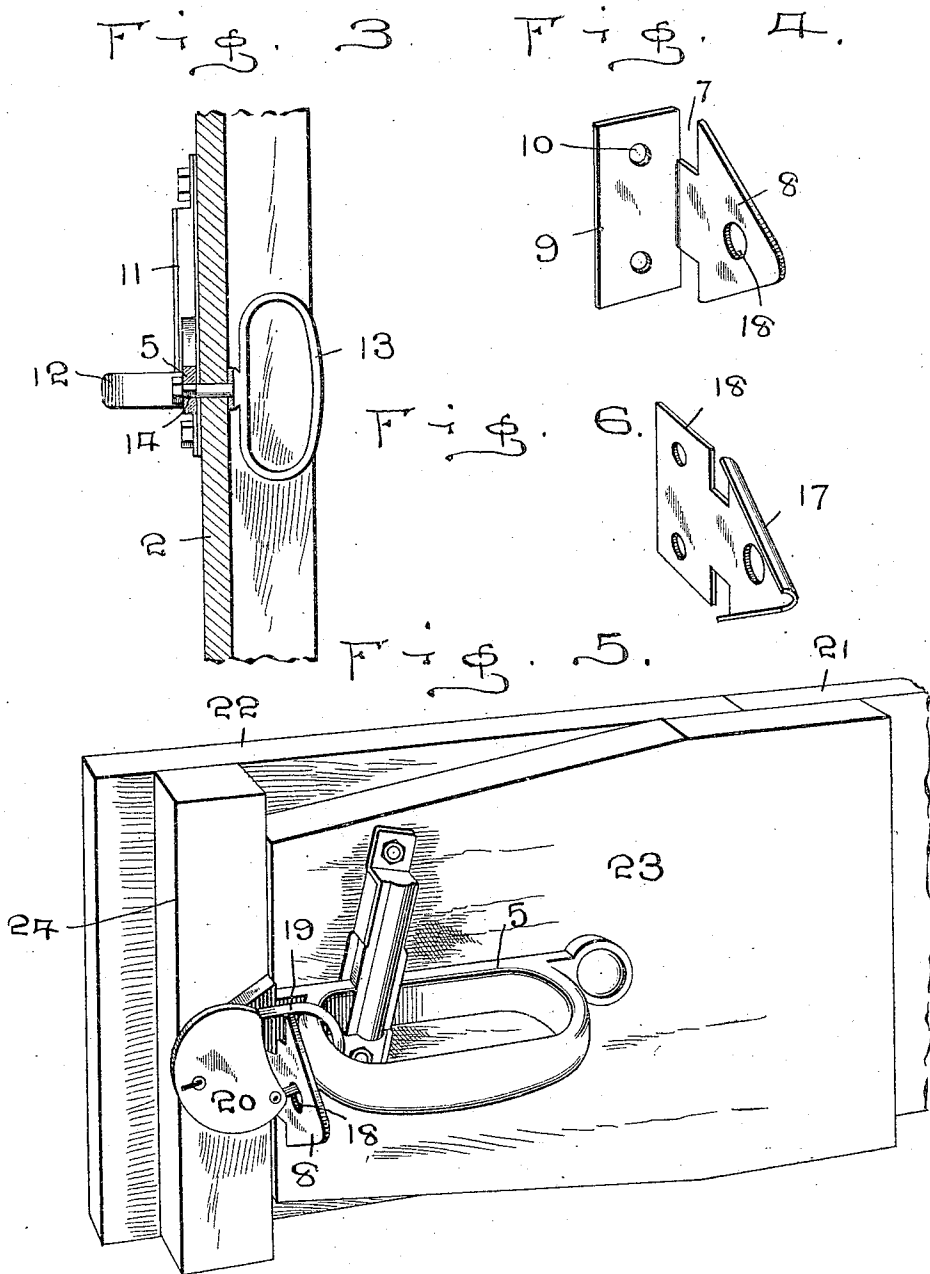
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C. W. STARK.
FASTENING DEVICE.
APPLICATION FILED FEB. 9, 1909.

942,470.

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2 SHEETS—SHEET 2.



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UNITED STATES PATENT OFFICE.

CHARLES W. STARK, OF MOUNTAIN LAKE, MINNESOTA.

FASTENING DEVICE.

942,470.

Specification of Letters Patent.

Patented Dec. 7, 1909.

Application filed February 9, 1909. Serial No. 476,873.

To all whom it may concern:

Be it known that I, CHARLES W. STARK, a citizen of the United States, residing at Mountain Lake, in the county of Cottonwood and State of Minnesota, have invented certain new and useful Improvements in Fastening Devices; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to new and useful improvements in fastening devices and more particularly to that class adapted to be used for retaining swinging closures such as doors, wagon end gates and the like, in their closed positions and my object is to provide a latch which is pivoted to the closure and adapted to engage a keeper.

A further object is to provide a reversible keeper and one wherein the latch will be elevated in closing when pressure is directed on the swinging object to which the latch is secured.

A further object is to provide means for releasing the latch from the keeper from either side of the closure.

A further object is to provide means for securing the closure in its open position and a still further object is to provide means for locking the securing device in its closed position.

Other objects and advantages will be hereinafter referred to and more particularly pointed out in the claims.

In the accompanying drawings forming part of this application, Figure 1 is a fragmentary perspective view of a building showing my improved securing device attached thereto. Fig. 2 is a horizontal sectional view through the building showing the door therefor in its closed position in full lines and in its open position by dotted lines. Fig. 3 is a vertical sectional view as seen on line 3—3, Fig. 1. Fig. 4 is a perspective view of one form of keeper for the latch. Fig. 5 is a detail perspective view of a wagon bed end gate, showing my improved securing device attached thereto, and, Fig. 6 is a perspective view of a modified form of keeper.

Referring to the drawings in which similar reference numerals designate corresponding parts throughout the several views, 1 indicates the wall of a building, which may be constructed in the usual or any preferred manner and 2 indicates a door, which is

hingedly mounted to one portion of a door jamb 3 by means of hinges 4. The door 2 is held in a closed position by means of a latch 5, one end of which is secured to the door 2 by means of a bolt 6, while the opposite end thereof is adapted to engage a notch 7 in the keeper 8 and when the latch is in engagement with the notch, the door will be securely held in its closed position.

The keeper 8 is substantially of triangular shape, the inclined edges of which are disposed in the path of the free end of the latch, so that when the door is moved to its closed position, said latch will travel up the inclined edge of the keeper and enter the notch 7 and in order to adapt the keeper for doors swinging from either side of the casing, a notch is formed in each edge of the keeper, or should one inclined edge of the keeper become worn or broken, the opposite edge thereof used.

The keepers 8 are secured to parts of a building or other object by means of a strap 9, which strap is provided with suitable holes 10 to receive screws or the like and the straps may extend at right angles to the trend of the keepers 8 as shown in Fig. 4 or may be extended in alinement with the keepers as shown in Fig. 6, the straps when extended to the position shown in Fig. 4, being applied to the outer face of the wall and when extended as shown in Fig. 6, to the inner face of the jamb against which the door swings. The latch 5 is extended through a housing 11, by which means it is held in proper alinement to the keeper, said housing having a spring therein (not shown), which directs downward pressure on the latch and causes the same to enter the notch 7 when the door is closed.

In order to raise the latch out of engagement with the keeper 8 when on the outside of a building, a hand-hold 12 is formed integral with the latch and preferably extends in a horizontal position and longitudinally of the latch, while the latch is released from the keeper from within the building by a similar hand-hold 13, which preferably extends in a vertical position and is fixed to the inner end of the bolt 6, that portion of the bolt extending through the latch being provided with flattened faces 14, the opening in the latch being similarly formed to fit the flattened portions of the bolt and it will be readily seen that when the

hand-hold 13 is twisted or turned in one direction, the latch 5 will be swung out of engagement with the keeper 8. The hand-hold 12 is so positioned that when the door 5 2 is swung to its open position, it will engage the notch 15 in an auxiliary keeper 16, said auxiliary keeper being secured at the proper point on the wall 1 and when the hand-hold 12 is in engagement with the 10 auxiliary keeper, the door will be securely held in its open position. The auxiliary keeper 16 may be formed similar to the keeper 8, or the inclined edges 17 thereof may be curved as shown in Figs. 1 and 6 15 and if it is desired to lock the latch in engagement with the keeper, said keeper is provided with an opening 18, through which the shank 19 of a pad lock is extended, the shank 19 also extending through 20 the hand-hold 12 and when the free end of the shank is engaged with the pad lock, the latch 5 will be securely held in its closed position.

As shown in Fig. 5, the securing device 25 may be attached to a wagon bed end gate, the end gate in this instance being formed in two sections 21 and 22, the section 21 having a plate 23 secured thereto and adapted to extend over the section 22, the free end 30 of the plate 23 extending into juxtaposition to a cleat 24 on which the keeper 8 is secured, while the latch 5 is pivotally mounted on the plate 23 and in position to engage the notch 7 in the keeper, the auxiliary hand- 35 hold, in this instance, being dispensed with.

It will thus be seen that I have provided a very cheap and economical form of securing device and one that can be readily attached to various swinging objects, such as 40 gates, doors and the like and one that can be operated from either side of the closure. It will further be seen that I have provided a very cheap and economical form of keeper for parts of the securing device and one 45 that can be reversed when one portion thereof becomes worn. It will likewise be seen that by curving the inclined edges of the keepers, as shown in Figs. 1 and 6, a more extensive wearing surface will be presented 50 to the latch and thus reducing the amount of wear on the latch and keeper. It will further be seen that by attaching the keepers to the wall of a building and in position to engage the horizontally disposed hand-hold 55 of the latch, the door will be securely held

in its open position so long as the hand-hold is in engagement with the keeper on the wall and that by operating the auxiliary hand-hold 13, the hand-hold 12 may be readily disengaged from the keeper 16. It 60 will likewise be seen that by providing the free end of the latch with an arrow-shaped head, the same can be used in connection with sliding doors, the shoulders at the intersection of the head with the latch, pre- 65 venting the door from being moved to an open position until the latch is raised in the usual manner.

What I claim is:

1. A device of the character described, 70 comprising a latch having an elongated hand hold loop, said loop extending from the pivotal end of said latch to nearly its opposite terminal, said latch having an en- 75 gaging arrow-head shaped end, a keeper adapted for engagement with said terminal head and having a right angled outstanding arrow shaped portion, the latter having an opening about centrally therethrough, and a locking means having a shackle adapted 80 to engage said opening and said loop, effecting the coupling together of said keeper and said loop practically in contact with each other.

2. A device of the character described 85 comprising a pivoted latch having an elongated hand hold loop, said latch having an arrow headed terminal just beyond said loop, a keeper having a right angled portion 90 also arrow-head shaped and adapted for engagement with said terminal of said latch, said right angled portion of said keeper having an opening about centrally there- 95 through, a locking means having a shackle adapted for engagement with said opening and said loop effecting locking engagement between said loop and said keeper, and an arrow headed keeper having at its inner end or base upper and lower notches adapt- 100 ed for engagement with said loop when the latch is presented thereto in opening the door.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

CHARLES W. STARK.

Witnesses:

ABR. JANZEN,
J. J. JANZEN.