

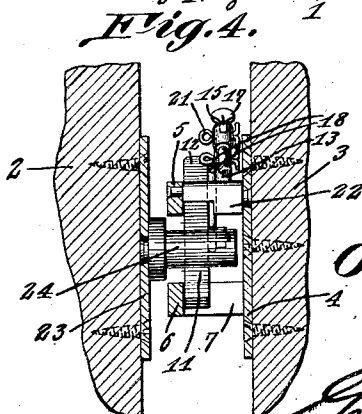
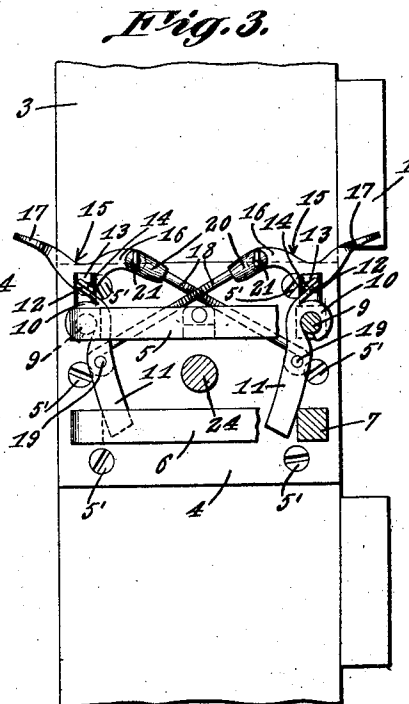
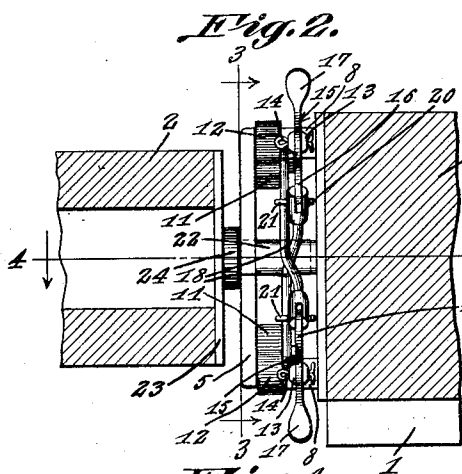
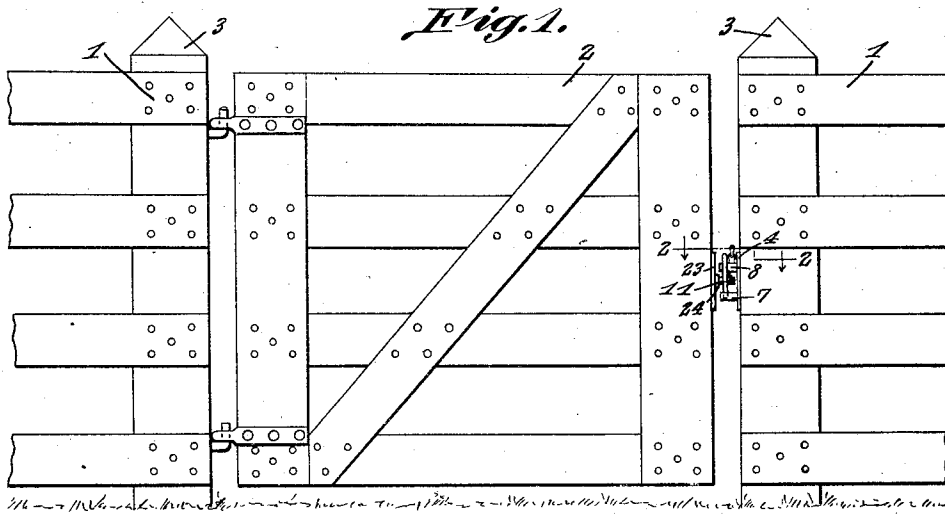
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GATE LATCH

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UNITED STATES PATENT OFFICE.

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GATE LATCH.

Application filed July 28, 1925. Serial No. 46,618.

This invention relates to closure securing devices and pertains particularly to a gate latch.

The primary object of this invention is the provision, in a manner as hereinafter set forth, of a gate latch of a construction which will enable one to quickly and easily release a gate held thereby, from either side thereof to allow the gate to be pushed forwardly to open the same.

Still another object of the invention is the provision, in a manner as hereinafter set forth, of a gate latch which will catch and secure a gate swung to from either side.

A further and final object of the invention is the provision, in a manner as hereinafter set forth, of a gate latch of unique construction, of few parts, strong and durable, efficient, serviceable and inexpensive to manufacture.

The invention will be best understood from a consideration of the following detailed description taken in connection with the accompanying drawing forming a part of this specification, with the understanding that the invention is not confined to any strict conformity with the showing of the drawing but may be changed and modified so long as such changes and modifications mark no material departure from the salient features of the invention as expressed in the appended claims.

In the drawing:—

Figure 1 shows in side elevation a gate and fence structure showing the device embodying this invention applied thereto.

Figure 2 is a horizontal section taken upon the line 2—2 of Figure 1 showing the gate latch embodying this invention in top plan.

Figure 3 shows the latch embodying this invention in elevation, this elevation is taken upon the line 3—3 of Figure 2 and,

Figure 4 is a section taken upon the line 4—4 of Figure 2.

Referring now to the drawing in detail wherein like numerals of reference indicate corresponding parts throughout, the numeral 1 indicates the spaced terminal ends of a fence structure between which ends the gate 2 is pivotally mounted. The usual gate posts are indicated at 3.

The latch embodying this invention is designed to be fixed to the inner face of that post 3 across which the free side of the gate 2 swings and the latch mechanism is mount-

ed upon a plate 4 which plate is secured to the posts by means of the screws 5.

Secured transversely of the face of the plate 4 is a pair of vertically spaced bars 5 and 6 respectively, the ends of which bars are turned inwardly at right angles as indicated by the numerals 7 and 8 respectively, thus setting up a pair of superposed substantially U-shaped members having their legs secured to the face of the plate 4.

The inturned ends 8 of the bar 5 are round as indicated at 9, throughout approximately half the length of the inturned portion. About these round sections 9 the curved hook or hooked portion 10 of latch fingers 11, are secured. These latch fingers are of substantial length and when in the normal dependant position bear against the inner side of the inturned portion 7 of the bar 6 as shown in Figure 3.

Each of the latch members has its hooked head portion 10 provided with the transversely extending spring tongue 12. The purpose for this tongue will become apparent as the description proceeds.

Rigidly mounted upon the inner end of each inturned portion 8 of the bar 5, is an up-standing bifurcated stud 13 and between the bifurcations of each of these studs there is securely and pivotally mounted upon the cotter or pivot pin 14 a trigger member indicated as a whole by the numeral 15. Each of these trigger members comprise head portions 16 which are positioned in opposed relation one with respect to the other, and outwardly extending finger portions 17.

Extending from each of the heads 16 of the trigger members 15 is a pull link 18, which pull links, as is clearly shown in Figure 3, cross each other extending in opposite directions, the free ends of these pull links being pivotally connected by means of the pins 19 to a latch 11 upon that side of the plate opposite from the side upon which this attached trigger is mounted. The pull links 18 are provided with the heads 20 which are bifurcated as shown in Figure 2 and have a cotter pin 21 passed therethrough for pivotally securing the same in position.

A stop 22 is mounted upon the face of the plate 4 and extends to and is secured to the rear central portion of the bar 5 as clearly shown in Figures 2 and 3. The latches 11 strike this stop when raised and are thus prevented from being raised too high.

The spring tongues 12 carried by the

heads 10 of the latches about the cotter pins 16 which secure the triggers 15 in position, when the latches drop and thus prevent the latches from falling heavily upon the in-
5 turned end 7.

Secured upon the front edge of the gate 2 is a plate 23 from the central portion of which a stud 24 extends which stud contacts with and raises the latches 11 to pass there-
10 beneath, when the gate swings to and when the gate comes to rest the stud 24 will be confined between the latches 11 as indicated in Figure 3. It will be seen that when one desires to open the gate 2 the finger is placed
15 upon the portion 17 of one or the other of the triggers 15 and the trigger is depressed. This causes the head 16 to be drawn back-wardly pulling upon the link 18 which acts to raise one or the other of the latches 11.
20 The gate can then be pushed forward beneath the raised latch to open the gate.

From the foregoing description it will be readily seen that there has been provided a unique and novel gate latch which while
25 attractive and neat in appearance is strong, serviceable and satisfactory in operation.

Having thus described my invention what I claim is:—

1. A gate latch comprising, a base plate,
30 a pair of spaced superposed, substantially U-shaped members having their legs fixed in said plate, a pair of latch members each having the upper portion thereof formed to engage about a leg of the upper U-member to freely swing therefrom, the lower por-
35 tion of said latches being within and abutting the adjacent leg of the lower U-member, a pair of trigger members each having

one end formed to set up a head and the other to set up a finger portion, each
40 mounted upon a leg of said upper U-member, a pair of actuating links each pivotally attached at one end to the head of a trigger member and having its other end pivotally
45 connected to the latch member adjacent the opposite trigger member, and a stud adapted to be carried by a gate for engage-ment between said latch members.

2. A gate latch comprising, a base plate, a pair of spaced superposed, substantially
50 U-shaped members having their legs fixed in said plate, a pair of latch members each having the upper portion thereof formed to engage about a leg of the upper U-member to freely swing therefrom, the lower
55 portion of said latches being within and abutting the adjacent leg of the lower U-member, a pair of trigger members each having one end formed to set up a head and the
60 other to set up a finger portion, each mounted upon a leg of said upper U-member, a pair of actuating links each pivotally
65 attached at one end to the head of a trigger member and having its other end pivotally connected to the latch member adjacent the opposite trigger member, a stud adapted to be carried by a gate for engagement between
70 said latch members, and a resilient stop member carried by each latch member and adapted to contact with a fixed part of the structure to break the fall of the latch when the same is allowed to drop.

In testimony whereof, I affix my signature hereto.

OLIVER CALKINS.