H. H. DREW.

GATE LATCH.

APPLICATION FILED JAN. 16, 1919.

1,322,883. Patented Nov. 25, 1919.

Fig. 2.

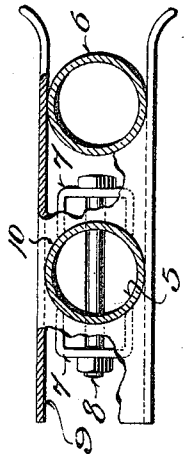


Fig. 3.

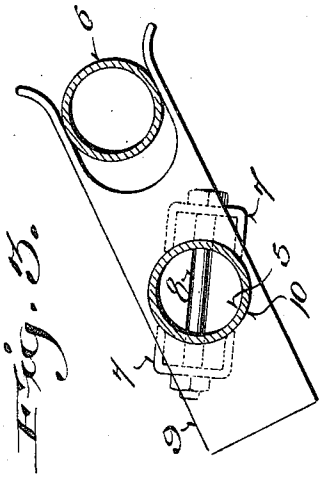
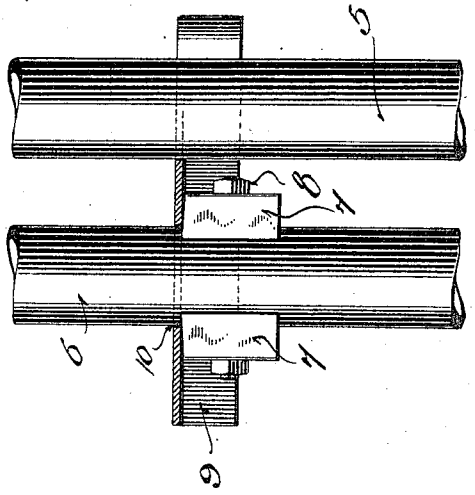


Fig. 4.



WITNESSES:

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HERBERT H. DREW, OF EDGERTON, WISCONSIN.

GATE-LATCH.

1,322,883. Specification of Letters Patent. Patented Nov. 25, 1919.

Application filed January 16, 1919. Serial No. 271,422.

To all whom it may concern:

Be it known that I, HERBERT H. DREW, a citizen of the United States, and resident of Edgerton, in the county of Rock and State of Wisconsin, have invented certain new and useful Improvements in Gate-Latches; and I do hereby declare that the following is a full, clear, and exact description thereof.

My invention relates to new and useful improvements in latches for gates or other movable members, the present embodiment of my invention being particularly adapted for use in connection with the gates of stock pens or other animal inclosures.

It is in general the object of my invention to simplify and otherwise improve the construction, and to increase the efficiency and readiness of manipulation of devices of this character.

It is more particularly my object to provide a latch member coöperating with a movable post and a stationary post, which is shiftably mounted on one of the posts and which directly engages the other post for holding the same without the necessity of providing a keeper or the like on said other post, release of the post being procured by shifting movement of the latch member.

A further object resides in the provision of a latch member of this character which is mounted in such manner as to prevent its operation by the stock.

A still further object resides in the provision of a latch member of this character which may be formed of scrap pieces of channel stock, to procure a material additional feature of economy in its manufacture.

With the above and other objects and advantages in view, which will be apparent as the description proceeds, my invention resides in the novel features of construction, combination and arrangement of parts as hereinafter more particularly described and defined by the appended claims.

In the accompanying drawings—

Figure 1 is a view showing my improved latch applied to a gate bar and post, the latch structure being in section.

Fig. 2 is a plan view of the latch in closed position, with portions thereof broken away.

Fig. 3 is a plan view of the latch in releasing position.

Referring now more particularly to the accompanyning drawings, 5 designates a gate post and 6 designates the vertical side bar of a gate adapted to swing in either direction past the post.

My improved latching device includes a pair of projections on opposed portions of the gate bar 6, said projections being formed in the present instance by channel sections 7 having their sides engaged against the bar 6 and secured by a bolt 8 passed through said channel members and through the gate bar, the gate bar together with the post 5 being cylindrical in shape whereby the channel members are held against rotation on the bolt. An elongated latching bar 9 is provided which is also formed of channel iron and which has an opening 10 formed in one end portion of its bight to snugly receive the gate bar whereby the latching bar is shiftably mounted on the gate bar and may seat on the projections 7 with its sides embracing the projections to prevent turning movement on the gate bar. The other end portion of the latching bar has its bight portion cut away to receive the gate post 5, the sides of the channel being curved outwardly to facilitate entrance of the gate post into the recess thus formed in the latching bar.

My latching device is thus exceedingly simple in nature. In operation, when the gate post is disposed in the recess of the channel bar and the sides of the channel bar embrace the gate bar projections 7, the gate is securely latched in a closed position. To release the gate to permit its swinging movement in either direction, the channel bar is merely lifted to clear the projections 7, and may then freely swing on the gate bar to release the post 5. Upon swinging movement of the gate to disengage the latching bar 9 from the post 5 said bar will rest on the projections 7 obliquely of the plane of the gate and thus when the gate is swung again to closed position the recess of the latching bar will automatically engage with and receive the gate post, and as the locking bar is then swung into alinement with the projections 7, it will drop over said projections to latch the gate. In lifting movement of the channel bar, the bar must be maintained in substantially horizontal position, which may be readily effected by the operator, since tilting movement of the bar would effect a frictional bind with the gate bar 6, and it is par-

ticularly noted that this binding tendency prevents manipulation of the latch by an animal.

It is further noted, that the entire latch device may be made of short scrap lengths of channel iron with the elimination of any castings and thus the latch may be manufactured at an exceedingly low cost.

What I claim is:

1. A latching device comprising the combination with a pair of relatively movable posts, of a projection on one of said posts, a channel bar having one end of its bight portion apertured to receive the said posts, whereby said channel bar is pivotally and slidably mounted upon said posts, tilting movement of the channel bar serving to bind the bar against movement on the post, the other end portion of the channel bar being recessed to receive the other post and said projection being engageable in the channel of the bar when said other post is engaged in the recess.

2. A latching device including the combination with a pair of relatively movable posts of a pair of channel sections having their sides engaged against opposite portions of one of the posts, a securing bolt passed through said sections and through the post, a channel latch bar apertured to receive the said post and provided with an open recess for receiving the other post, said channel bar sections being engaged in the channel of the latch bar when the other post is engaged in the recess of the bar.

In testimony that I claim the foregoing I have hereunto set my hand at Edgerton, in the county of Rock and State of Wisconsin.

HERBERT H. DREW.