C. D. WARLICK.

LOCK.

APPLICATION FILED MAY 25, 1917. RENEWED AUG. 1, 1919.

1,332,784. Patented Mar. 2, 1920.

Fig. 1.

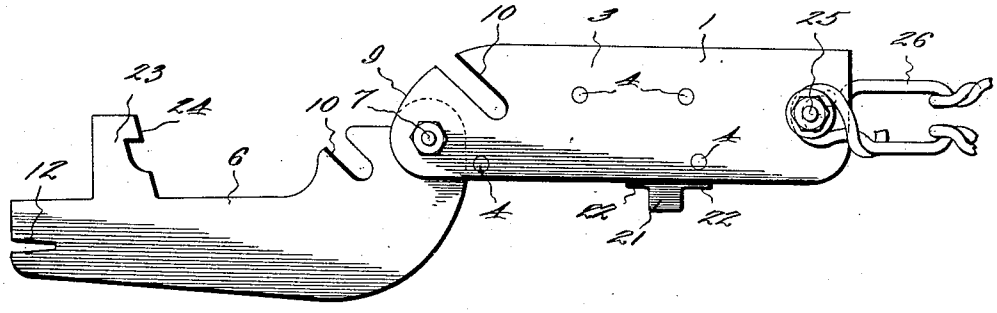


Fig. 2.

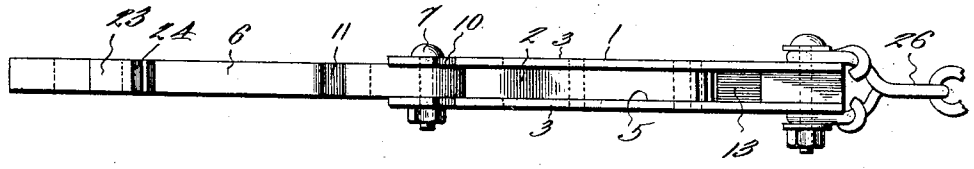
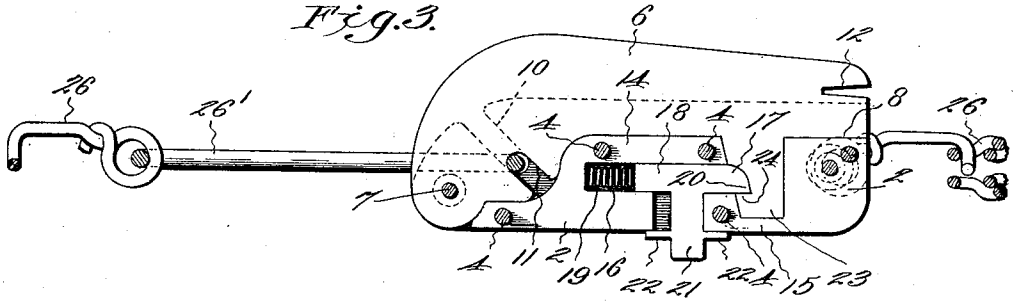


Fig. 3.



WITNESSES

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LOCK.

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To all whom it may concern:

Be it known that I, CHARLES D. WARLICK, a citizen of the United States, residing at Salisbury, in the county of Rowan and State of North Carolina, have invented new and useful Improvements in Locks, of which the following is a specification.

My invention relates to locks and has for its primary object to provide a lock for the ends of the side stretches of anti-skidding chains which may be easily opened and closed, and which when closed cannot unlock.

A further object of my invention is to provide a lock of such a construction that the operating parts of the same are inclosed to protect the same from injury.

With these and other objects in view which will be hereinafter fully described and particularly pointed out in the claim, the invention consists in the novel construction and arrangement of parts illustrated in the accompanying drawings forming a part of this specification, in which:—

Figure 1 is a side elevation of a lock embodying my invention, the parts being shown in open position.

Fig. 2 is a top plan view of the same.

Fig. 3 is a vertical section in side elevation showing the lock in closed position.

Like characters of reference indicate like parts in the various views.

In the drawings 1 designates generally the body of the lock which comprises center spacing members 2 and side plates 3 secured on either side thereof by means of rivets 4. The side plates 3 extend beyond the spacing members 2 on one side and one end of the body and form a channel 5 thereby.

6 designates a shackle which has its one end pivoted between the side plates 3 by means of a bolt 7 engaging holes in said side plates and shackle. The shackle 6 is adapted, when in its closed position, to engage the entire length of the channel 5, the free end of said channel engaging side being adapted to abut the adjacent portion of one of the spacing members 2 when the lock is closed, as designated at 8 in Fig. 2, and the other end of said engaging side of the shackle is adapted to engage the end of the adjacent spacing member 2 whereby the closure of the lock is effectually closed to prevent mud and dust entering the same.

It will be noted that the upper edges of the side plates 2 are offset downwardly near the end which carries the bolt 7, as designated at 9. Corresponding transverse depressions 10 are formed on the edges of said side plates in said offset portions 9. A transverse slot 11 is formed on the channel engaging side of the shackle 6 and is adapted to form an inclosure with said depressions 10 when the lock is closed. Said slot 11 is slanted outwardly toward the free end of the shackle 6 for purposes herein described. A second transverse slot 12 is formed in the free end of the shackle 6 above the side plates 3 into which a screw driver or other similar tool may be inserted to open the lock, should it become cramped for any reason.

The spacing members 2 are two in number and are spaced apart, as designated at 13. The member which lies adjacent the bolt 7 has a projection 14 at the upper end thereof lying in the space 13, and the other member 2 has a projection 15 at the lower end thereof lying in the space 13. Said member 2 which lies adjacent the bolt 7 has a longitudinal slot 16 formed therein, which lies below the projection 14. A T-shaped latch member 17 has a projection 18 extending into the slot 16, and a spring 19 abuts the end of said slot 16 and the end of the projection 18 to normally retain the latch member 17 in its outer position abutting the projection 15. A projection 20 is formed at the upper end of latch member 17 and is adapted to lie in the space 13 when the latch member is in its other position, and a manipulating knob 21 extends beyond the members 2 and the side plates 3 of the body for the convenient manual manipulation of the latch, and has a shield 22 formed at the base thereof to close the lower opening of the space 13 at all positions of said latch member 17. The shackles 6 are provided with a downwardly projecting member 23 which is adapted to lie in the space 13 when the lock is closed. Said member 23 has an upwardly facing shoulder 24 formed thereon which is adapted to be engaged by the undersurface of the projection 20 of the latch member 17 when the lock is closed and the latch member is allowed to project into the space 13 under the influence of the spring 13.

A bolt 25 engages a hole in the body 1 near the end thereof opposite the bolt 7, said bolt 25 being engaged by the side stretch 26 of an anti-skid chain. The other end of the

side stretch of the anti-skid chain is provided with an elongated link 26 which is adapted to engage the inclosure formed by the depressions 10 and the slot 11. The inclosure formed by the depressions 10 and the slot 11 is disposed in substantially the same plane as the bolt 25 and when tension is exerted upon the ends of the chain the lock is positioned longitudinally respecting the chain.

It will be noted that, by reason of the slant of the slot 11, there is practically no tendency to open the lock when a strain is exerted upon the chain to pull the ends apart. For this reason there is practically no strain upon the latch member 17 and it is not subject to wear as otherwise would be the case.

Having thus fully described my invention, I claim:—

A lock comprising a body including a pair of side plates and a pair of spacing members secured therebetween at one edge thereof, said spacing members having their ends spaced apart and one spacing member being provided with a longitudinally extending recess, a T-shaped latch member having its head portion slidable within said recess and having its shank disposed between the ends of said spacing members, a manipulating knob on the end of said shank, a coil spring disposed within said recess holding said latch member in operative position, a shackle pivoted at one end of said body and disposable between the side plates thereof, said shackle having one edge adapted for conforming engagement with the inner edges of said spacing members, a tongue extending from said edge of said shackle and recessed for conforming engagement by said latch member, said shackle and said side plates being provided adjacent said pivot point with inclined slots adapted to register when said shackle is in latched position whereby to define an opening between the closed ends of the slots for forming attaching means.

In testimony whereof I affix my signature.

CHARLES D. WARLICK.