T. L. KING.

NUT LOCK.

APPLICATION FILED NOV. 4, 1909.

982,683. Patented Jan. 24, 1911.

Fig. 1.

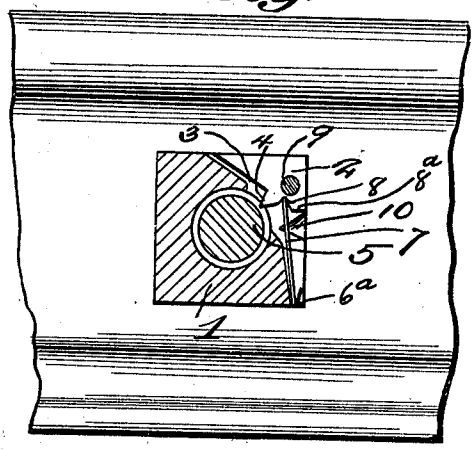


Fig. 2.

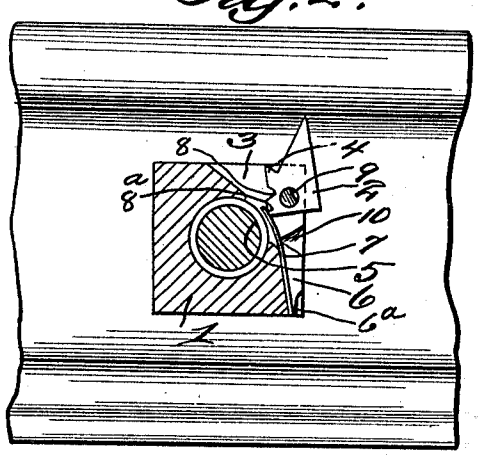


Fig. 3.

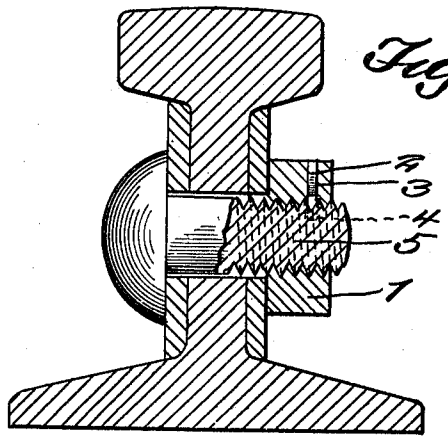


Fig. 4.

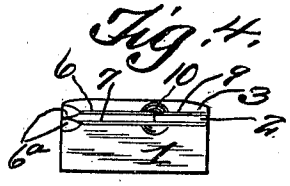
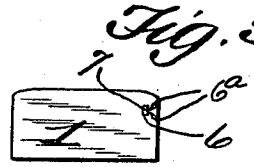


Fig. 5.



Witnesses

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UNITED STATES PATENT OFFICE.

THOMAS L. KING, OF LA JARA, COLORADO.

NUT-LOCK.

982,683. Specification of Letters Patent. Patented Jan. 24, 1911.

Application filed November 4, 1909. Serial No. 526,291.

To all whom it may concern:

Be it known that I, THOMAS L. KING, a citizen of the United States, residing at La Jara, in the county of Conejos and State of Colorado, have invented a new and useful Nut-Lock; 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.

This invention relates to a new and useful nut lock, and it has for its object to provide a simple, efficient and durable device of this character, which can be embodied on most any nut, and which will firmly and securely lock the same against rotation.

One of the objects of the invention is to provide a device of this character comprising a nut with a slot sawed or otherwise made in the same, and having a plate provided with a lug mounted in the slot, to engage the threads of the bolt.

With these and other objects in view, the invention consists in the novel construction and arrangement of parts hereinafter described, shown and particularly pointed out in the appended claims.

In the drawings:—Figure 1 is a horizontal sectional view of a nut, showing plate in its normal position. Fig. 2 is a similar view, showing the plate in an open position. Fig. 3 is a vertical sectional view at right angles to Figs. 1 and 2. Fig. 4 is a side elevation, showing the countersunk portion of the nut. Fig. 5 is a side elevation taken at right angles to Fig. 4.

Referring to the drawings, 1 designates a screw threaded nut of the ordinary construction, having a triangular shaped metallic plate 2 mounted in a slot 3. This slot is sawed, cut or otherwise formed horizontally in the nut between its faces. The plate 2 is provided with a lug 4, which extends inwardly beyond the threads of the nut, and is designed to frictionally engage the bolt 5 when the same is screwed into the notch. This plate is formed with a right angular edge, whereby the plate will not project outwardly of the nut when in a locking position.

Merging into the slot 3 is a longitudinal groove 6, in which a spring 7 is disposed, and which is adapted to engage a notch 8 of the plate 2. The plate 2 is mounted upon a pivot 9, and by the coöperation between the spring and the notch 8, it will be seen that the lug 4 will be normally held in frictional engagement with the threads of the bolt 5. By this method, the plate is held in a closed position, so that the nut will be held against rotation. The free end of the spring is designed to bear against a projection 8^a of the plate 2 to hold the plate in an open position, as shown clearly in Fig. 2. The lug 4 engages the bolt 5 between the threads thereof. The walls of the slot, at one end thereof, are battered in to form clenching members 6^a for one end of the spring, whereby the spring may be held anchored in place. When it is desired to remove the bolt from the nut, the plate may be operated against the action of the spring by pressing the head of a nail into the countersunk portion 10 of the nut, in order to force the lug out of engagement with the threads of the bolt. By the coaction between the free end of the spring and the notch, or the projection, the plate may be held in an open or closed position.

Having thus described the invention, what is claimed is:

1. In combination, a nut provided with a slot between its faces, a triangular shaped metal plate having a notch and a right angular edge corresponding to the edge of the nut, a pivot securing the plate in the slot whereby said plate may be held on said nut without any portion thereof projecting beyond said nut, said plate being formed with a lug adapted to bite the bolt and with a projection, and a spring mounted in the slot, the free end of said spring being adapted to engage the notch, or to bear against the projection, to hold the lug against or away from the bolt, respectively, as specified.

2. In combination, a nut provided with a slot between its faces, a triangular-shaped plate having a right angular edge corresponding to the edge of the nut, a pivot securing the plate in the slot, without any portion of the plate projecting beyond said nut, said plate being formed with a lug designed to bite into the threads of a bolt and provided with a notch and a projection, a spring, one end of which is held in said

slot by the latter having its walls at one end battered in to engage one end of the spring, the free end of the latter being designed to engage the notch or the projection, to hold the lug against or out of engagement with the bolt, respectively, as specified.

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

THOMAS L. KING.

Witnesses:
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