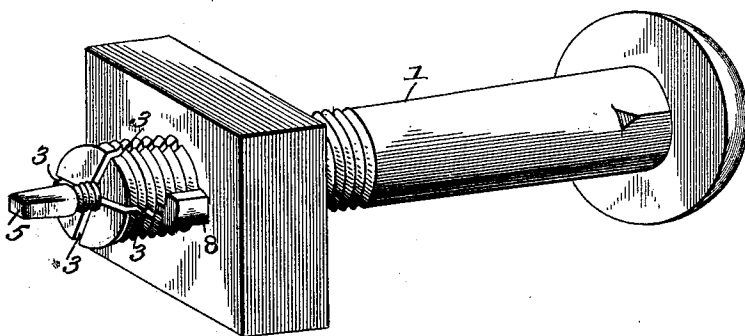


(No Model.)

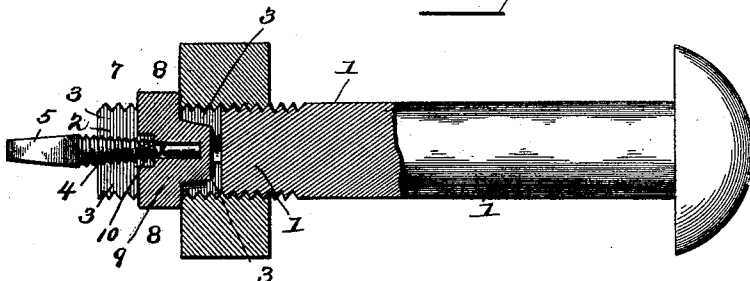
E. JOHANSON.
NUT LOCK.

No. 484,894.

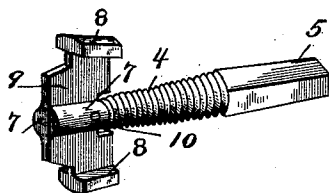
Patented Oct. 25, 1892.

$$\underline{F_2} = \underline{1}$$


~~SECRET~~



ИЗДА



Witnesses

C. H. Stewart.
J. T. Riley

Inventor

Emil Johanson.

By *his* Attorneys,

Chas Snow & Co

UNITED STATES PATENT OFFICE.

EMIL JOHANSON, OF MIAMI STATION, MISSOURI, ASSIGNOR OF ONE-HALF TO
RICHARD H. NABRING, OF SAME PLACE.

NUT-LOCK.

SPECIFICATION forming part of Letters Patent No. 484,894, dated October 25, 1892.

Application filed August 11, 1892. Serial No. 442,744. (No model.)

To all whom it may concern:

Be it known that I, EMIL JOHANSON, a citizen of the United States, residing at Miami Station, in the county of Carroll and State of Missouri, have invented a new and useful Nut-Lock, of which the following is a specification.

The invention relates to improvements in nut-locks.

The object of the present invention is to improve the construction of nut-locks and to provide one which will be simple and comparatively inexpensive in construction and which will securely hold a nut against unscrewing, and which will, when desired, readily release the nut to enable the same to be unscrewed.

The invention consists in the construction and novel combination and arrangement of parts hereinafter fully described, illustrated in the accompanying drawings, and pointed out in the claims hereto appended.

In the drawings, Figure 1 is a perspective view of a nut-lock constructed in accordance with this invention. Fig. 2 is a longitudinal sectional view. Fig. 3 is a detail perspective view of the locking-screw and the swiveled plate and pawls. Fig. 4 is a detail sectional view showing the manner of swiveling the plate to the locking-screw.

Like numerals of reference indicate corresponding parts in all the figures of the drawings.

1 designates a bolt provided at its threaded end with an inwardly-extending longitudinal bore 2 and having oppositely-disposed radial slots 3 communicating with the bore, which is threaded and which is adapted for the reception of a locking-screw 4. The locking-screw 4 is provided at one end with a head 5 and at the other end with a swiveled plate, which is provided with a central socket 7 and end pawls 8, the portions of the plate between the socket and the pawls forming webs 9, adapted to fit in the slots of the bolt and to move therein to bring the pawls which are arranged on the outside of the bolt in engagement with the nut to prevent the latter from unscrewing. The inner ends of the pawls 8 are beveled to provide a point on each for engaging the outer face of the nut.

The slots of the bolt are four in number and the portions of the bolts are adapted to expand slightly to receive the outer portion of the locking-screw, which tapers at 10, whereby the screw is clamped and prevented unscrewing. The head of the locking-screw is polygonal and is adapted to be turned by a wrench or other instrument to force the pawls into engagement with the nut.

It will be seen that the nut-lock is simple and inexpensive in construction, and that it is capable of securely locking a nut against unscrewing and of readily releasing the same when desired.

What I claim is—

1. In a nut-lock, the combination of a bolt having a longitudinal bore and provided with a longitudinal slot communicating with the bore, a pawl arranged outside of the bolt and provided with a web extending through the slot, a nut arranged on the bolt and adapted to be engaged by the pawl, and a screw arranged in the longitudinal bore and adapted to advance the pawl and force the same into engagement with the face of the nut, substantially as described.

2. In a nut-lock, the combination of a bolt having a longitudinal bore and provided with oppositely-disposed longitudinal slots extending inward from the end of the bolt and communicating with the bore, a nut arranged on the bolt, a plate arranged in the slots and provided at its end with pawls arranged outside of the bolt and engaging the outer face of the nut, and a screw arranged in the bore and adapted to advance the plate in the slots, substantially as described.

3. In a nut-lock, the combination of a bolt having a threaded longitudinal bore and provided with oppositely-disposed longitudinal slots extending inward from the end of the bolt and communicating with the bore, a nut arranged on the bolt, a screw arranged in the bore, and a plate centrally swiveled to the ends of the screw and arranged in the slots and provided with pawls arranged outside of the bolt and engaging the outer face of the nut, substantially as described.

4. In a nut-lock, the combination of a bolt provided with a threaded longitudinal bore and having the oppositely-disposed slots ex-

tending inward from the ends of the bolt and communicating with the bore and forming expansible portions, a nut arranged on the bolt, a plate having a central socket and provided
5 at its ends with pawls arranged outside of the bolt and engaging the nut at the outer face thereof, said plate being provided between the pawls and the socket with web portions arranged in two of the slots, and a locking-screw arranged in the bore and having
10 the plate swiveled to its inner end and pro-

vided near its outer end with a tapered portion adapted to expand the end of the nut, whereby the parts are locked, substantially as described. 15

In testimony that I claim the foregoing as my own I have hereto affixed my signature in the presence of two witnesses.

EMIL JOHANSON.

Witnesses:

WESLEY MILLER,
P. P. GUILLET.