

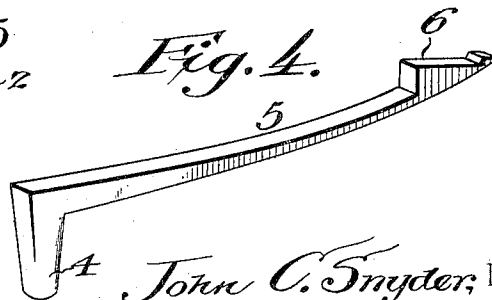
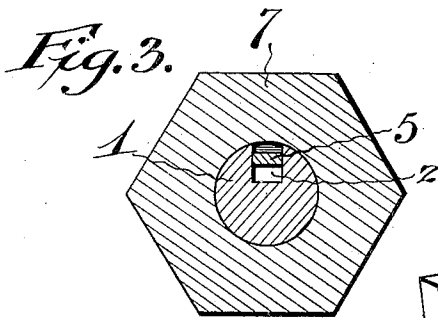
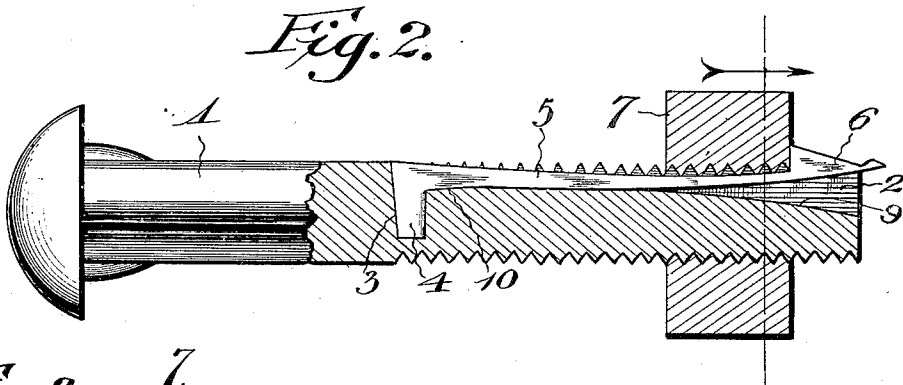
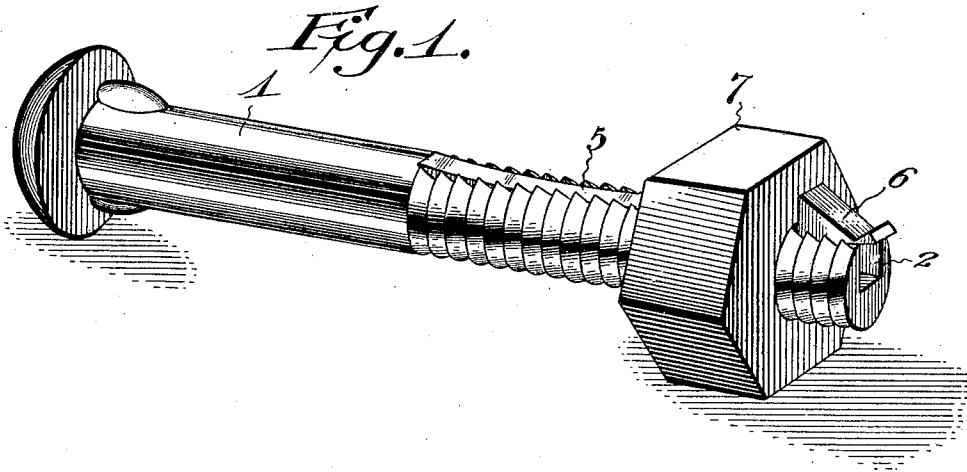
No. 622,555.

Patented Apr. 4, 1899.

J. C. SNYDER.  
NUT LOCK.

(Application filed July 15, 1898.)

(No Model.)



Witnesses

*A. Roy Appleman*  
*H. J. Riley*

*J. C. Snyder, Inventor.*  
By *his* Attorneys,

*C. Snow & Co.*

# UNITED STATES PATENT OFFICE.

JOHN C. SNYDER, OF BOWLING GREEN, OHIO.

## NUT-LOCK.

SPECIFICATION forming part of Letters Patent No. 622,555, dated April 4, 1899.

Application filed July 15, 1898. Serial No. 686,089. (No model.)

*To all whom it may concern:*

Be it known that I, JOHN C. SNYDER, a citizen of the United States, residing at Bowling Green, in the county of Wood and State of Ohio, have invented a new and useful Nut-  
5 Lock, of which the following is a specification.

The invention relates to improvements in nut-locks.

The object of the present invention is to  
10 improve the construction of nut-locks and to provide a simple, inexpensive, and efficient device capable of securely and automatically locking a nut when the same is screwed on a  
15 bolt and adapted to permit the nut to be removed without injury to any of the parts.

The invention consists in the construction and novel combination and arrangement of parts hereinafter fully described, illustrated  
20 in the accompanying drawings, and pointed out in the claim 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  
25 sectional view of the same. Fig. 3 is a transverse sectional view. Fig. 4 is a detail perspective view of the resilient catch.

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

30 I designate a bolt provided in its threaded portion with a longitudinal groove 2 and having a transverse socket 3 at the inner end of the groove to receive an arm 4 of a resilient  
35 catch 5, which is arranged within the groove. The catch 5 consists of a shank provided at its outer end with a head 6 and having the arm 4 at its inner end. The catch at the outer  
40 end is beveled to enable a nut 7 to be readily forced over it in screwing the same on the bolt, and the head is provided at its inner side with a shoulder adapted to lock the nut against  
outward movement and prevent any accidental  
unscrewing.

The shank of the catch is slightly curved  
45 and presents a convex face to the bottom of the groove, and the latter has its bottom beveled at the outer portion at 9 to deepen the groove and enable the head to be readily depressed therein when it is desired to remove  
50 the nut. The inner portion of the bottom of

the groove is slightly beveled at 10 to form a fulcrum for setting the shank at a slight angle and throwing the head of the catch outward.

The arm 4, which is arranged at right angles  
55 to the shank of the catch, fits snugly in the transverse socket and locks the catch against outward movement. This construction permits the catch to be readily lifted out  
60 of the groove; but when the bolt is placed in position the catch is firmly confined in the groove.

In order to enable the catch to be conveniently depressed when it is desired to remove  
65 the nut from the bolt, it is provided at the outer end of the head with a projection or nib forming a shoulder. The projection or nib is adapted to be readily engaged by a suitable  
70 tool, and the head of the catch may be held in a depressed position until the outer portion of the nut passes over it.

The invention has the following advantages: The nut-lock, which is simple and comparatively  
75 inexpensive in construction, possesses great strength and durability and is automatic in its operation. The particular construction of the groove of the bolt throws  
80 the engaging portion of the catch outward and holds the same firmly against a nut and effectually prevents the same from accidentally  
unscrewing. The catch is adapted to engage any ordinary nut and does not necessitate any alteration in the construction thereof,  
85 and the groove may be readily formed in the bolt.

What I claim is—

A nut-lock comprising a bolt provided at its threaded portion with a longitudinal groove  
90 having an oppositely-inclined bottom forming a fulcrum, said bolt being provided at the inner end of its threaded portion with a transverse socket extending inward from the groove and terminating short of the opposite  
95 side of the bolt, and a catch consisting of a resilient shank arranged within the groove of the bolt and having its inner portion fitting against the inner side of said fulcrum, its  
outer portion being adapted to be depressed,  
100 the arm 4 located at the inner end of the shank and fitting in the said socket, and a head ar-

ranged at the outer end of the shank and having a beveled front edge and provided with a rear or inner shoulder, whereby it is adapted to engage an ordinary nut, and is capable of permitting the same to pass over it freely in screwing the nut on the bolt, substantially as described.

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

JOHN C. SNYDER.

Witnesses:

C. W. LENHART,  
IOLA BICKERSTAFF.