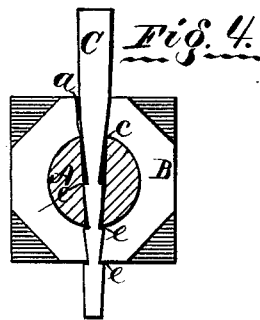
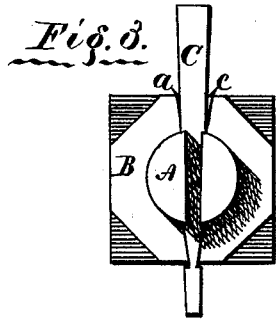
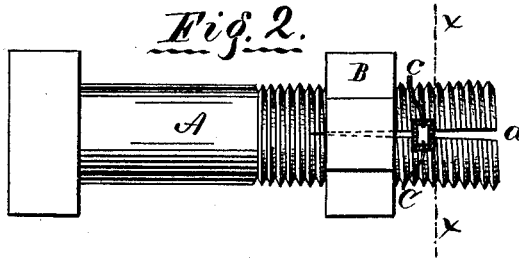
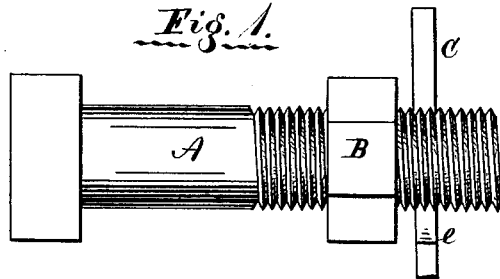


S. D. ENOCHS.  
NUT-LOCK.

No. 185,633.

Patented Dec. 26, 1876.



Witnesses:  
W. H. Banningen.  
Chas. Lupper

Inventor:  
Samuel D. Enochs,  
By W. B. Richards,  
Atty.

# UNITED STATES PATENT OFFICE

SAMUEL D. ENOCHS, OF YATES CITY, ILLINOIS.

## IMPROVEMENT IN NUT-LOCKS.

Specification forming part of Letters Patent No. **185,633**, dated December 26, 1876; application filed May 24, 1876.

*To all whom it may concern:*

Be it known that I, SAMUEL D. ENOCHS, of Yates City, in the county of Knox and State of Illinois, have invented certain new and useful Improvements in Nut-Locks; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to letters of reference marked thereon, which form a part of this specification.

The nature of my invention relates to improvements in nut-locks, or means for fastening bolt-nuts in place to prevent their becoming loose by the jarring or tremulous motion of machinery, by the shocks of passing trains, and from other similar causes; and the invention consists, primarily, in the use of a wedge-shaped key, passed transversely in a suitable keyway, and through a split-bolt, for the purpose of spreading the bolt, and thus securing the nut; secondarily, and for the purpose of more thoroughly securing the key in place, it consists in notching the edges of the spreading-key, so that the sides of the bolt at the narrow side of the split therein will engage in said notches, all as hereinafter fully described.

In the accompanying drawings, Figure 1 is a side elevation of a bolt and nut, the nut locked by my invention. Fig. 2 is a top view of Fig. 1. Fig. 3 is an end view, and Fig. 4 is a transverse sectional view on the line *x x* in Fig. 2.

Referring to the parts by letters, A represents a screw-bolt of ordinary construction, with a split or longitudinal opening, *a*, in its threaded end, and a key seat or way, *c*, formed transversely through it by cutting a groove in each side of the split *a*. B is a

nut threaded and screwed onto the bolt A. C is a wedge-shaped key, as shown at Fig. 3, with notches *e* on its sides. The key-seat *c* is made in the bolt outside of the position to be occupied by the nut B, so that the spreading-key C may be inserted and driven into place to spread the bolt and enlarge its outer end, as well as bind it within the nut, and prevent its being shaken loose. Ordinarily, the key C being inserted from above, will need no security to prevent its shaking loose; but in situations where it might be necessary to insert it from below, or where greater security was needed, the notches *e* will be engaged with the narrow side of the split *a*, as shown at Fig. 4, and prevent its withdrawal.

When necessary to remove the notched key C, it may be done by inserting something in the split *a* to separate the parts, or the shoulders on the notches *e* may be slightly rounded, so that it may be driven back.

What I claim as new, and desire to secure by Letters Patent, is—

1. A nut-lock consisting of the split screw-bolt A, having the key-seat *c* formed in and along the faces of the walls of the cleft, and the wedge-shaped key C, operating in combination, substantially as set forth.

2. The wedge shaped key C, having notches *e*, arranged to operate in combination with the bolt A and nut B, the bolt A having a split, *a*, and key-seat *c*, substantially as and for the purpose specified.

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

SAMUEL D. ENOCHS.

Witnesses:

CHARLES BARKER,  
THOMAS MCKEE.