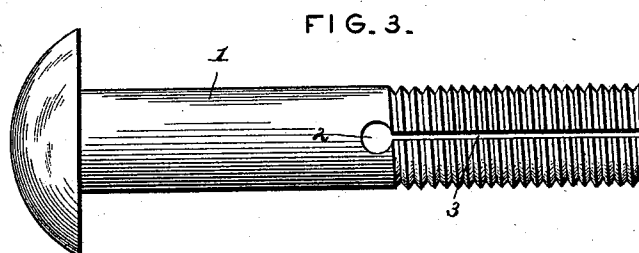
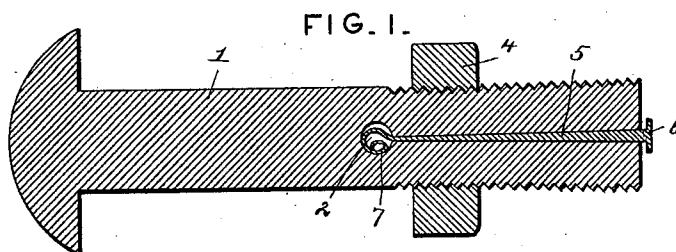


(No Model.)

E. STILLWELL.
NUT LOCK.

No. 498,368.

Patented May 30, 1893.



Witnesses

Harry L. Amer.

John H. Siggers.

Inventor

Elias Stillwell

By his Attorneys,

C. Snow & Co.

UNITED STATES PATENT OFFICE.

ELIAS STILLWELL, OF ROCKVILLE, MISSOURI, ASSIGNOR OF ONE-HALF TO
BERNARD P. JARRED, OF SAME PLACE.

NUT-LOCK.

SPECIFICATION forming part of Letters Patent No. 498,368, dated May 30, 1893.

Application filed October 15, 1892. Serial No. 448,982. (No model.)

To all whom it may concern:

Be it known that I, ELIAS STILLWELL, a citizen of the United States, residing at Rockville, in the county of Bates and State of Missouri, have invented a new and useful Nut-
Lock, of which the following is a specification.

My invention relates to nut locks; and the objects in view are to provide a cheap and simple construction of lock inherent in the bolts themselves and adapted when applied to securely and effectually lock the nuts upon the bolts and prevent any possibility of them ever getting loose.

With these objects in view the invention consists in certain features of construction hereinafter specified and particularly pointed out in the claim.

Referring to the drawings:—Figure 1 is a longitudinal section of a bolt and nut, the latter secured upon the former in accordance with my invention. Fig. 2 is a detail in perspective of the locking wedge or key. Fig. 3 is a detail in elevation of the bolt previous to the insertion of the wedge and the application of the nut.

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

1 designates a bolt, whose body or spindle portion below the series of threads is provided with a transverse perforation 2, the same being cylindrical, whereby it may be readily drilled. From its outer extremity to this point the said bolt is provided with a longitudinal slit, or in other words a split as indicated at 3. The bolt has mounted on it in the usual manner an ordinary nut 4.

5 designates a wedge-shaped key, whose extremity is thin, and which may be provided at one end with a head 6. This key is considerably longer than the slit in the bolt, and is introduced, the sharp end first, after the nut has been placed in position upon the bolt. By a few taps of a hammer the key is driven into the split, its thin end passing into the drilled perforation, where it strikes the cylindrical wall thereof, and being deflected follows the contour of the wall, whereby it is

rolled up as indicated at 7 forming a shoulder which prevents or resists any withdrawal of the aforesaid key from its position. The key is narrower than the diameter of the bolt, and hence its edges cannot come in contact with anything likely to disturb it, or with the threads of the nut. By the insertion of the key, as will be obvious, the opposite bifurcations of the bolt, as formed by the split, are wedged apart thus increasing the diameter of the bolt to such an extent as to prevent any likelihood of the nut being retrograded or run off the bolt.

From the foregoing description, in connection with the accompanying drawings, it will be seen that I have provided an exceedingly cheap and simple means of fastening nuts rigidly upon their bolts, which means may be readily applied without injury to the nuts or any special tools.

In the construction of lock illustrated in Figs. 1 to 3 of the drawings, it will be obvious that an ordinary pair of pinchers may be introduced over the head 6 of the key, and thus the same be withdrawn from the slot of the bolt, the shoulder at the inner end of the key readily unrolling. After this the nut may be removed by the application of an ordinary wrench.

Having described my invention, what I claim is—

The combination with a bolt having a drilled opening formed transversely therein, and split longitudinally from said opening to its outer end, of a thin wedge-shaped key driven between the bifurcations of the bolt and having its inner extremity curled or bent within the perforation forming the shoulder, and a nut mounted on the bolt, substantially as specified.

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

ELIAS STILLWELL.

Witnesses:

A. T. LEECH,
CALVIN HERREN.