

(14.)

A. T. MORRIS.

Improvement in Lock Nuts.

No. 122,845.

Fig. 1.

Patented Jan. 16, 1872.

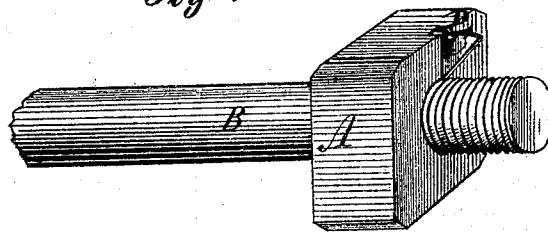


Fig. 2.

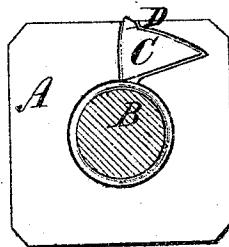
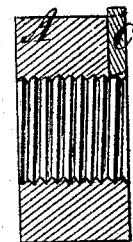


Fig. 3.



Witnesses.

*A. Ruppert.*  
*J. William Hester*

Inventor.

*A. T. Morris*

*To Edson Brothers*  
*A. Morris.*

## UNITED STATES PATENT OFFICE.

ALMON T. MORRIS, OF NEVADA, OHIO.

## IMPROVEMENT IN LOCK-NUTS.

Specification forming part of Letters Patent No. 122,845, dated January 16, 1872.

*To all whom it may concern:*

Be it known that I, ALMON T. MORRIS, of Nevada, in the county of Wyandot and State of Ohio, have invented a certain new and useful Improvement in Lock-Nuts; and I do hereby declare the following to be a full, clear, and exact description thereof, reference being had to the accompanying drawing forming a part of the same, and in which—

Figure 1 represents a perspective view of a screw-bolt and nut with my invention applied thereto; Fig. 2, an end view of the same; and Fig. 3 is a section through the line *xx* of Fig. 2.

Similar letters of reference in the several figures refer to corresponding parts.

This invention relates to that class of devices known as "lock-nuts," and it consists of a wedge-shaped die or plate, in combination with a recessed nut working upon a screw-bolt, substantially as hereinafter more fully described.

To enable others to make and use my invention, I will proceed to describe it.

In the accompanying drawing, A refers to a nut fitting upon a screw-bolt, B. This nut is constructed in one side with a recess, two of the extremities of which are left open, the upper one being to allow of the projecting portion of the die hereinafter described passing through the said nut, and the lower one to permit of the sharpened or lower end of said die being brought in contact with the screw-bolt B, as plainly illustrated in Figs. 1 and 2. C refers to a die which is of a wedge-shape, as shown in the two figures last mentioned, the lower end of which is sharpened and designed to bear against the screw-bolt B, and the upper end of the same made to pass through the aperture in the upper extremity of the recess which receives said die, and extend upward flush with the exterior surface of the nut A. By striking or applying pressure to this die

with a hammer, or other suitable means, upon its upper end, the sharpened end thereof will be forced into the screw-bolt. The die C, after having been forced into the bolt B, is firmly held in contact with the latter by simply bending or forcing that part of the nut marked D down so as to press against the said die; this having been done the die becomes a perfect lock in retaining firmly in place the bolt B. When it is desired to relieve the die, to loosen the bolt, it is only necessary to prize the depressed part D upward and the said die will be immediately relieved from the said bolt.

It will be further remarked that the walls of the recess containing the die C are beveled (as are also the upper and lower sides of the said die) in such manner as that when the said walls are struck by a hammer or the like from the outside they will be caused to bulge outward so as to form a ridge or flange which will retain the said die in its place after pressure has been relieved from it.

In the use of my invention it will be seen that springs and eccentrics are entirely dispensed with, lessening the cost of the device, and making it less liable to get out of order, consequently more effective in its operation.

Having thus described my invention, what I claim, and desire to secure by Letters Patent, is—

The nut A, having in its face a socket with two openings, a lip or fastening, D, and a die, C, constructed and operated substantially as herein shown and described, and for the purpose specified.

In testimony whereof I have hereunto signed my name this 31st day of October, A. D. 1871, in presence of two subscribing witnesses.

ALMON T. MORRIS.

Witnesses:

J. S. MYERS,  
JAMES K. AGNEW.

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