

G. F. DOBBS.

NUT LOCK.

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960,284.

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Fig. 1.

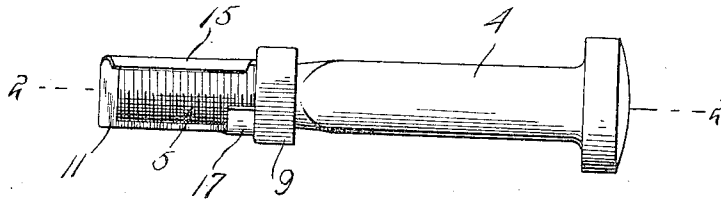


Fig. 2.

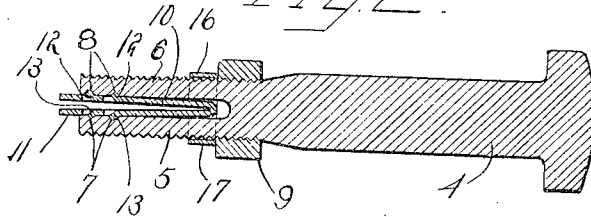
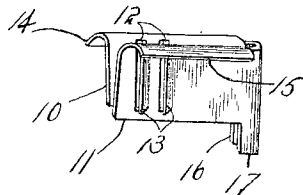


Fig. 3.



Witnesses
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UNITED STATES PATENT OFFICE.

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NUT-LOCK.

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To all whom it may concern:

Be it known that I, GEORGE F. DOBBS, a citizen of the United States, residing at Tiltonsville, in the county of Jefferson, State of Ohio, have invented certain new and useful Improvements in Nut-Locks; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to nut locks.

The object of the invention is the production of a device of the character described which will prevent the accidental loosening or separation of a nut from a bolt by jarring or otherwise.

With the above and other objects in view, the invention consists in the details of construction and in the arrangement and combination of parts, to be hereinafter more fully described and particularly pointed out in the claims.

In describing the invention in detail reference being had to the accompanying drawings, wherein like characters of reference denote corresponding parts in the several views, and in which:—

Figure 1 is a side elevation of the invention; Fig. 2 a section on the line 2—2 of Fig. 1; Fig. 3 a detail perspective view of the locking key.

Referring to the drawings 4 indicates a bolt of ordinary construction having its threaded end slotted or bifurcated longitudinally to form the independent arms 5 and 6, whose adjacent faces are provided with correspondingly recessed portions 7 and 8, respectively. Adapted for travel on the threaded end of the bolt 4, is a nut 9, which when screwed home is locked against rotation by means of an improved form of locking key adapted for lateral insertion between the arms 5 and 6, of the bifurcated end of the bolt. Said locking key is formed of a single piece of metal bent upon itself to produce corresponding members 10 and 11, which are provided with teeth or lugs 12 and 13, respectively, struck from the body of said members. The members 10 and 11, are inclined toward each other so as to impart a wedge-shape to said key. When the key is inserted between the arms 5 and 6, of the bolt the teeth 12, will be forced into the recesses 8, while the teeth 13, will be forced into the recesses 7, and the key held

against longitudinal displacement with respect to the bolt and as a result of the wedge-shape of said key the arms 5 and 6, will be consequently spread. In order to secure the key against transverse displacement in either direction with respect to the bolt the upper edges of the members 10 and 11, are bent laterally as at 14 and 15, respectively, while the lower portions of said members are provided near their inner ends with the depending ears 16 and 17, respectively. When the key is completely inserted between the arms 5 and 6, of the threaded end of the bolt, the ears 16 and 17, are bent outwardly and upwardly upon the threads and in conjunction with the laterally bent upper portion of the members 10 and 11, serve to secure the key against transverse displacement in either direction with respect to the bolt.

From the foregoing description it will be apparent that when the nut 9, is screwed a desired distance on the threaded end of the bolt 4, and the key is inserted laterally between the arms 5 and 6, so that its inner end engages the outer face of the nut 9, it will be impossible to effect an unscrewing of the nut without the manual removal of said key owing to its engagement with the rear end of the key and the spreading of the arms 5 and 6, by the insertion of said key.

In order to manually remove the key from its locking position between the arms 5 and 6, it is only necessary to bend the ears 16 and 17, from the position shown in Fig. 2, to the position shown in Fig. 3, when the key can be withdrawn laterally.

What is claimed is:—

1. A nut lock comprising a bolt having one of its ends screw-threaded and slotted longitudinally, the opposite longitudinal walls of said slot being provided with corresponding recesses, a nut traveling on the threaded end of said bolts and a locking member adapted to be inserted laterally in said slot, said member comprising a single piece of metal bent upon itself to form a pair of corresponding body sections, the upper longitudinal edges of each of said sections being flanged outwardly, an ear formed on the lower longitudinal edge of each of said sections and adapted to be bent upwardly when said member is secured in place to prevent lateral displacement thereof in one direction, and a plurality of teeth

formed on the outer face of each section of the member adapted to enter corresponding recesses in the opposite walls of said slot.

2. A nut lock comprising a bolt having
5 one of its ends screw-threaded and slotted longitudinally, the opposite walls of said slot being provided with corresponding recesses, a nut traveling on the threaded end of said slot and a locking member adapted
10 to be inserted laterally in said slot said member having a wedge shaped body portion

provided with teeth on each side adapted to enter corresponding recesses in the opposite walls of said slot, and means carried by said member for locking same against lateral 15 withdrawal.

In testimony whereof, I affix my signature, in presence of two witnesses.

GEORGE F. DOBBS.

Witnesses:

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