

V. F. NALLY.

NUT LOCK.

APPLICATION FILED JULY 11, 1911.

1,105,095.

Patented July 28, 1914.

FIG. 1

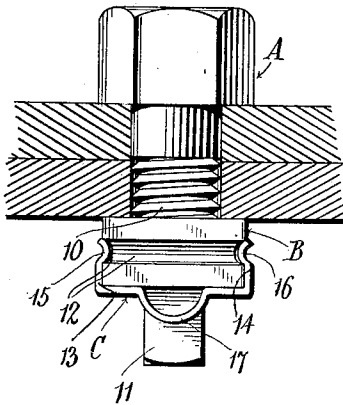


FIG. 2

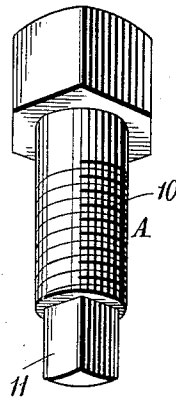


FIG. 3

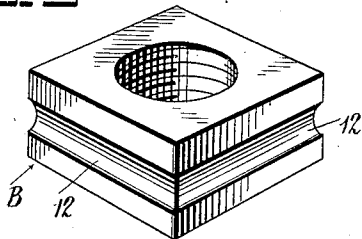


FIG. 5

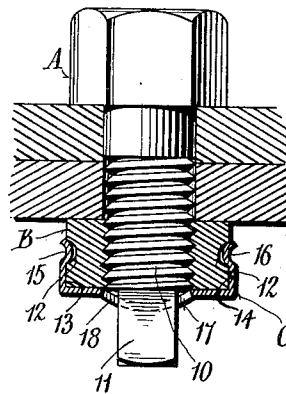
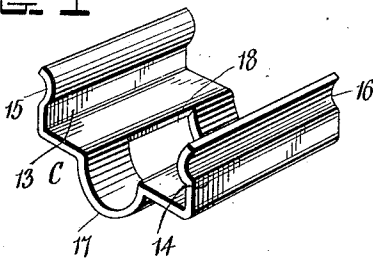


FIG. 4



Witnesses

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UNITED STATES PATENT OFFICE.

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NUT-LOCK.

1,105,095.

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To all whom it may concern:

Be it known that I, VENICE F. NALLY, a citizen of the United States, residing at Charleston, in the county of Kanawha, State of West Virginia, 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 resides in the provision of a nut lock which will be simple in construction, easily applied, efficient in use and which may be manufactured at an exceedingly small cost.

A further object of the invention resides in the construction of a new and improved form of locking device for use in a nut lock, which is so designed that said locking device may be readily associated with nuts of various sizes to efficiently secure the latter against rotation on the bolts carrying same.

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 appended claim.

In describing the invention in detail, reference will be 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 a bolt and nut constructed in accordance with the invention and having the improved locking device associated therewith. Fig. 2, a detail perspective view of the bolt with the nut and locking device removed. Fig. 3, a detail perspective view of the nut, Fig. 4, a detail perspective view of the locking device, and Fig. 5, a view similar to Fig. 1 showing the locking device applied to a nut of larger size than that illustrated in Fig. 1.

Referring to the drawings, A indicates the bolt provided with the usual threads 10 and a reduced squared portion 11 located at the outer end of the threads 10.

B indicates the nut which is adjustable on the threads 10. This nut has its sides provided with corresponding grooves 12 which extend transversely of the bolt A.

The locking device is indicated at C and is

shown as comprising a single piece of resilient metal, having its terminals bent to form spaced arms 13 and 14, which latter are provided respectively with inwardly directed ribs 15 and 16. The portion of the locking device which is disposed between the arms 13 and 14 is provided with a central outwardly projecting rib 17 which extends parallel to the ribs 15 and 16. This portion of the locking device between the arms 13 and 14 is further provided with a squared opening 18 interrupting the rib 17 and adapted to receive snugly the reduced squared end 11 of the bolt A.

In assembling the nut lock the nut B is adjusted on the bolt A and the locking device C applied to the nut B with the reduced squared end 11 passing through the opening 18 in said locking device. As the locking device is forced toward the nut B the latter will be received between the arms 13 and 14 so as to engage the ribs 15 and 16 and force said arms 13 and 14 outwardly. Further movement of the locking device toward the nut B will permit the ribs 15 and 16 to snap into respective grooves 12 and thereby secure the locking device to the nut. It will be here noted that by constructing the locking device with the rib 17 the resiliency of the arms 13 and 14 is greatly enhanced and the possibility of the locking device becoming detached from the nut reduced to a minimum. The construction of the rib 17 upon the locking device C enables said locking device to be applied to nuts of different sizes, as by flattening the rib 17 the length of the connecting portion of the locking device between the arms 13 and 14 may be increased as clearly illustrated in Fig. 5.

What is claimed is:

In a nut lock, the combination with a bolt having a squared outer end beyond its threads, of a nut having channels in its sides and engaged with the threads of said bolt, and a locking element for the nut, said locking element comprising a plate having its central portion transversely bowed outwardly to provide a rib, said rib being of less width than the nut, said rib being provided centrally with an angular opening of a width transversely of the rib to snugly fit the squared end of the bolt, and to loosely fit the squared end of the bolt longitudinally of the rib, the edge portions of the locking element parallel with the rib being bent to extend beyond the opposite face of the main

portion of the locking element from the rib,
and having ribs formed therein for engage-
ment in the channels of the nut, said locking
element being disposed with its angular
5 opening surrounding the squared end of the
bolt and its bent edge portions at opposite
sides of the bolt, the ends of said first named
rib extending to the edges of the locking

element for the reception of a disengaging
tool.

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

VENICE F. NALLY.

Witnesses:

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J. L. BRAWLEY.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents,
Washington, D. C."