O. B. FOSTER.

NUT LOCK.

APPLICATION FILED OCT. 9, 1916.

1,218,072.

Patented Mar. 6, 1917.

Fig. 1.

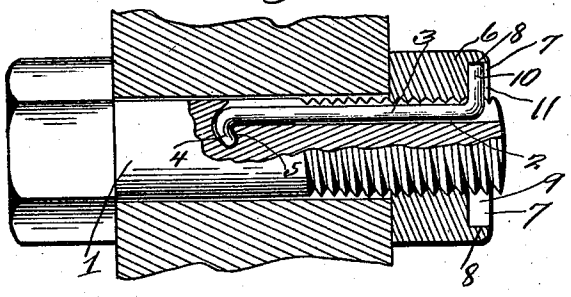


Fig. 2.

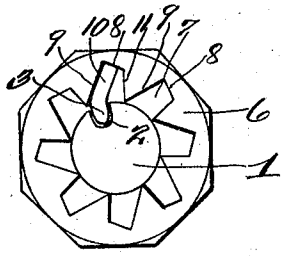


Fig. 3.

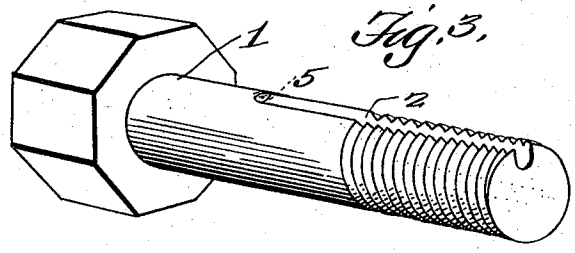


Fig. 4.

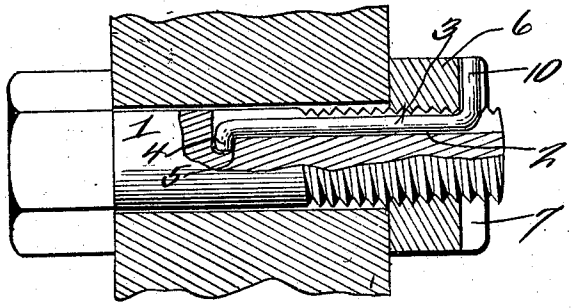
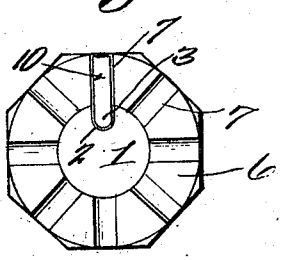


Fig. 5.



Witnesses

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NUT-LOCK.

1,218,072. Specification of Letters Patent. Patented Mar. 6, 1917.

Application filed October 9, 1916. Serial No. 124,530.

To all whom it may concern:

Be it known that I, ORVAL B. FOSTER, a citizen of the United States, residing at Fort Smith, in the county of Sebastian, State of Arkansas, have invented a new and useful Nut-Lock; 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 an improved nut lock and an object of the invention is to provide a device of this kind having novel features of construction.

One of the features of construction is to provide a bolt, the shank of which is provided with a key way having a notch at one end, and designed to receive a key, which has a hook at one end to engage said notch, in combination with a nut, the outer face of which is provided with a series of recesses, to receive the other end of the wire key.

Another object of the invention is to incline one wall of each of said recesses, so that it joints, the non-inclined wall of an adjacent recess, so that when the nut is tightened to a certain degree so that the end of the wire key to be bent engages the non-inclined wall, the nut may be forced, so that the bent end may engage the inclined wall of the next recess.

In practical fields the details of construction may necessitate alterations falling within the scope of what is claimed.

The invention comprises further features and combination of parts as hereinafter set forth and shown in the drawings.

In the drawings:—

Figure 1 is a view partly in elevation and partly in section of the improved nut lock device constructed in accordance with the invention.

Fig. 2 is an end view of the bolt shank and the nut.

Fig. 3 is a detail view of the bolt.

Fig. 4 is a view in elevation and in section showing another construction of the nut-lock device.

Fig. 5 is an end view of Fig. 4.

Referring more especially to the drawings 1 designates the bolt, the shank of which is provided with an elongated key way 2 extending longitudinally of the shank, to receive a wire key 3. This key on its inner end is provided with a hook 4 which extends partially toward the outer end of the key. The hook engages a correspondingly constructed recess or notch 5 at the inner end of the key way, to prevent outward and upward movement of the hook end of the key. The outer face of the nut 6 (which is threaded upon the bolt) is provided with a plurality of recesses 7, the outer ends of which are closed by the walls 8. One of the side walls of each recess 7 is inclined, and such inclined wall is designated by the numeral 9. When applying the nut 6 the key is arranged in the key way so that its hook will engage the notch 5, after which the nut 6 is screwed upon the shank of the bolt. The outer end of the key, after the nut 6 has been tightened to a certain degree, is bent at right angles to the body of the key, so as to engage the inclined wall 9 of one of said recesses 7. The outer extremity of the right angle bent portion 10 engages the wall 8, thereby preventing the nut from backing off the shank of the bolt, while the inclined wall prevents further tightening of the nut. However, should the nut be tightened to a degree, that when the outer end of the key is bent at right angles to the body of the key, to aline with the non-inclined wall 11, the nut 6 may be forced until the bent ends can engage the inclined wall of the next recess. In Figs. 4 and 5 the notch 5 is radial instead of inclined, and the opposite walls of the recesses 7 are perfectly parallel, while both ends of each recess 7 are open.

The invention having been set forth what is claimed as new and useful is:—

In a nut lock, the combination of a bolt having an elongated key way extending longitudinally of its shank and a nut threaded on the shank provided upon one face with a plurality of substantially radial recesses, of an elongated wire key in said key-way, its outer end to be bent laterally of the shank of the bolt in side elevation and radially and tangentially in front elevation to engage one of said recesses of the nut, one wall of each recess being inclined to be

engaged by the bent end of said key, the inner end of the key-way having a notch which extends partially toward the outer end of the bolt shank, the inner end of the key having a hook extending correspondingly to and engaging said notch.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

ORVAL B. FOSTER.

Witnesses:
N. A. LASATER,
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