

W. I. HEINBACH.
NUT LOCK.
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1,107,213.

Patented Aug. 11, 1914.

Fig. 1.

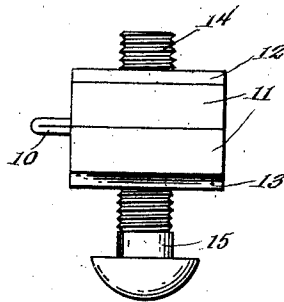


Fig. 2.

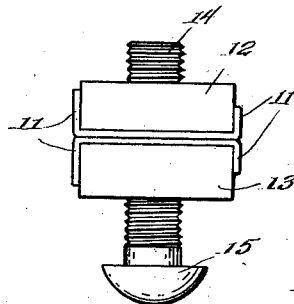
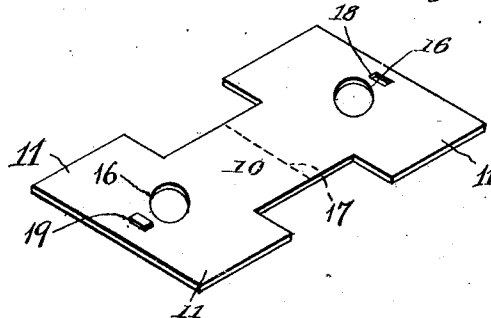


Fig. 3.



WITNESSES

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NUT-LOCK.

1,107,213.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, WILLIAM I. HEINBACH, a citizen of the United States, residing at Phoenixville, in the county of Chester and State of Pennsylvania, have invented new and useful Improvements in Nut-Locks, of which the following is a specification.

My invention relates to the class of nut locks.

10 An object of my invention is to provide a device of the above nature which will positively lock a nut upon the bolt, and prevent the reverse movement of the same.

15 Another object of my invention is to provide a nut lock, the entire device being stamped from a single sheet of material, thereby reducing its cost of manufacture to a minimum.

20 A further object of my invention is to provide a nut lock, the blank form of which may be stamped from a single sheet of material, it afterward being bent into form by the operator, thus obviating the provision of expensive mechanism for bending the device into shape.

25 A still further object of my invention is to provide a nut lock which is simple in construction, strong, durable and efficient in operation and as above described can be manufactured at a minimum cost.

30 With the above and other objects in view, my invention relates to such details of construction and in the arrangement and combination of the several parts as will be hereinafter fully described and specifically pointed out in the appended claims.

35 In describing my invention in detail, reference will be had to the accompanying drawings wherein like characters denote like or corresponding parts throughout the several views, and in which:—

40 Figure 1 is a side elevation of a bolt and nuts showing my invention in place thereon and in connection therewith. Fig. 2 is a front elevation of the device as illustrated in Fig. 1, and Fig. 3 is a perspective view of the blank form of the lock proper.

45 In the accompanying drawings wherein is illustrated the preferred form of my invention, the numeral 10 designates the body portion of the lock, which is in the form of an elongated sheet of material, this being preferably of metal, however, I do not limit myself to any specific material.

50 Spaced apart pairs of wings 11, are provided upon the body portion, and prefer-

ably near its ends, these wings, after the body portion is doubled and put in place as shown in Figs. 1 and 2, are bent in opposite directions to lie flat against the nuts 12 and 13 to securely lock the nuts upon the screw threaded portion of the bolt 15. Openings 16 are provided, near its forward and rear ends respectively, these openings being of substantially the same diameter as the screw threaded portion 14 of the bolt whereby when the body portion is bent upon the dotted line 17, they will register with each other and allow the bolt to be inserted there-through.

70 When the device is in the position shown in Figs. 1 and 2, the nuts will be securely locked upon the bolts, however, I have provided a secondary locking means which together with the wings 11 co-act, in such a manner as to form an efficient yet inexpensive nut lock. The means referred to above comprises an elongated opening 18 provided in the body portion adjacent one of the openings 16, while an offset portion 19 is stamped into the body portion near the other of the openings. When the body portion is bent intermediate its ends, it will be readily recognized that the offset portion engages the opening 18 in such a manner as to prevent any movement of one section upon the other.

85 When assembling this lock nut, the nut 13 is first screwed upon the bolt 15 and the locking device is then put in place. This locking device is doubled intermediate its length upon the line 17 so that the openings 16 register and the lug 19 fits into the opening 18. When this locking device is put in place, the tongues 11 extend in the same plane as the body portion 10. After the locking device is in place, the nut 12 is screwed upon the bolt until it is brought in a tight engagement with the locking device and the tongues 11 are then bent flat against the sides of the nuts as shown in Fig. 2 thus preventing the nuts from having any independent rotation. The outer nut 12 forms a jam nut to hold the inner nut in place and the fingers 11 prevent the outer nut from working loose. The lug 19 by fitting into the opening 18 prevents independent movement between the two sections of the locking device when this locking device is upon the bolt.

110 From the foregoing, it is thought that it will be recognized that my invention as it

is disclosed herein clearly overcomes the difficulties heretofore existing in this art and it is thought that the advantages and novel features of the same will be readily
5 educed.

I desire it to be understood that I may make slight changes in the construction and in the arrangement and combination of the several parts, provided, however, such
10 changes fall within the scope of the subjoined claims.

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

15 1. A nut lock comprising a bolt, a nut threaded upon said bolt, a locking device placed upon said bolt and fitting against said nut, said locking device being formed from a strip of material doubled intermediate its length to form inner and outer
20 leaves having side wings, a lug carried by the free end portion of one of said leaves and extending into an opening formed in the other of said leaves to prevent independent
25 movement of said leaves, and the second nut threaded upon said bolt and engaging the

outer leaf, said side wings being bent to engage the opposite side faces of said nuts to prevent rotation of said nuts upon said bolt.

2. A locking device comprising a strip of material having its end portions provided with side wings extending from opposite
30 edges of said strip, said strip being bent intermediate its length to form a pair of leaves provided with bolt-receiving openings, one of said leaves being provided with
35 a lug and the other of said leaves being provided with a socket for receiving said lug.

3. In a nut lock, a locking strip provided with nut engaging means and being bent
40 upon itself to form leaves, one leaf being provided with a cut out and the second leaf being provided with a lug fitting into the cut out of the first mentioned leaf to prevent
45 relative movement of the leaves of the locking strip when bent to assume a locking position.

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Witnesses:

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