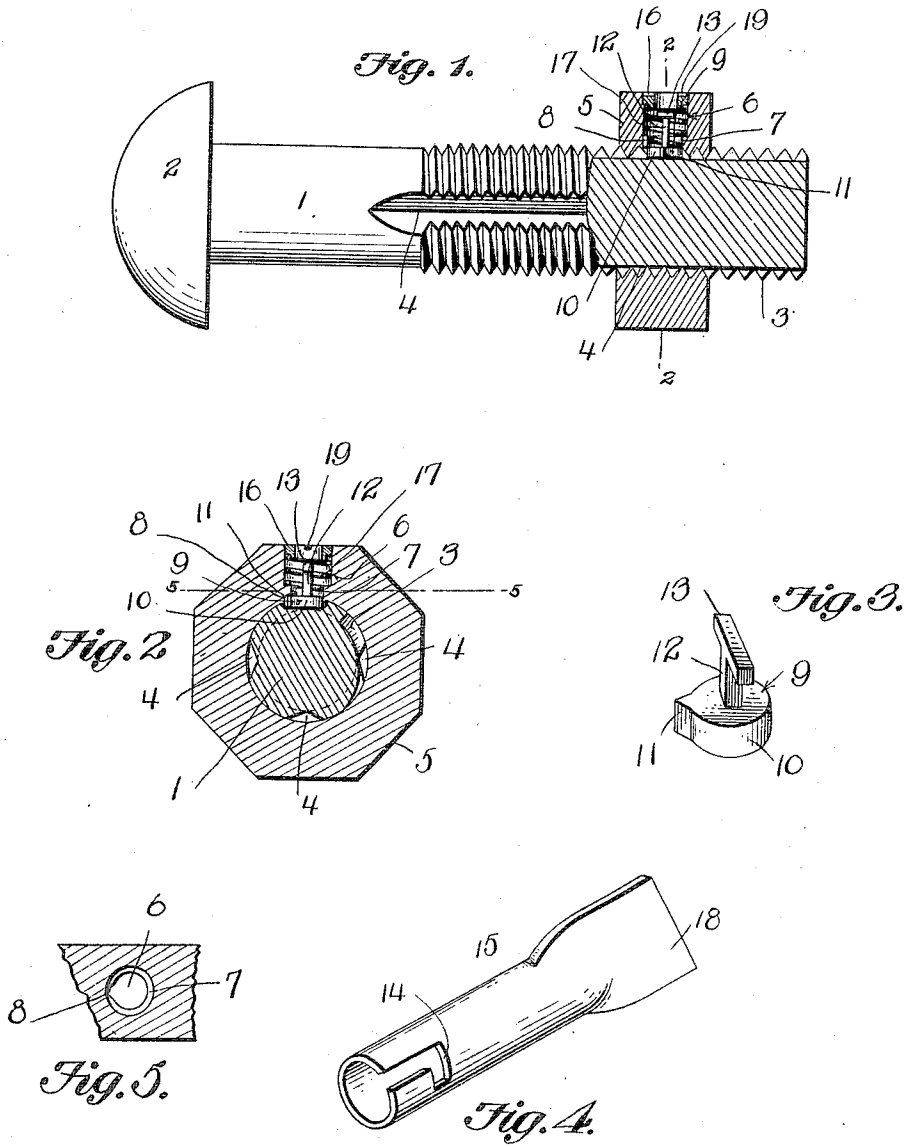


A. LE BLANC.
NUT LOCK.

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Patented Sept. 27, 1910.



Witnesses

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NUT-LOCK.

971,451.

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To all whom it may concern:

Be it known that I, AUDRECIE LE BLANC, a citizen of the United States, residing at Centerville, in the parish of St. Mary and State of Louisiana, have invented new and useful Improvements in Nut-Locks, of which the following is a specification.

This invention relates to nut locks and has for its object to provide simple and effective means for locking a nut on its bolt in such a manner that the nut will be free to turn during the operation of applying the same to the bolt.

The invention further contemplates the use of a key member whereby the locking device may be removed from the bolt so as to allow the nut to be withdrawn.

With the above and other objects in view, which will appear as the description progresses, the invention resides in the novel construction and arrangement of parts hereinafter fully described and claimed.

In the accompanying drawing there has been illustrated a simple and preferred embodiment of the improvement and in which drawing,

Figure 1 is a central longitudinal sectional view of the bolt and nut. Fig. 2 is a transverse sectional view of the same. Fig. 3 is a perspective view of the key member. Fig. 4 is a perspective view of the locking dog or latch bolt. Fig. 5 is a detail horizontal sectional view upon the line 5—5 of Fig. 2.

In the accompanying drawing the numeral 1 designates an ordinary bolt provided with the usual head 2. The threaded portion 3 of the bolt is provided with one or more longitudinally extending recesses 4, the purpose of which will presently be apparent.

The numeral 5 designates the nut for the bolt. This nut 5 is also of the ordinary usual construction and is provided with a central threaded bore adapted to engage the threads 3 of the bolt 1. The nut 5 is, however, provided with a pocket 6 the same being provided with a reduced annular offset or floor 7 one portion of which is cut away as at 8, thus forming what may be termed a key hole slot.

The numeral 9 designates the locking dog. This dog 9 comprises an enlarged portion 10 which is provided with an offset or bead 11. The enlarged portion together with the bead 11 is of a size equaling the opening or bore 6 of the nut and is also of a size equaling the width of the longitudinal recess 4 of the bolt.

The locking dog is provided with a centrally reduced portion 12 terminating in a T-shaped head 13. This head 13 is adapted for the reception of a bayonet slot provided within a key member 15 and for a purpose which will hereinafter be apparent.

Frictionally or threadedly connected with the bore 6 at its outer end is a cap member 16 which is centrally provided with an opening of a greater width than the head 13 of the member 9, and positioned between the depending wall of the said cap member and the upper face of the portion 10 of the locking dog is a helical spring 17, which normally tends to force the said portion 10 tightly into engagement with the offset or floor 7 provided by the bore 6.

Briefly described the operation of the device is as follows:—When it is desired to screw the nut upon the bolt the enlarged portion 10 of the dog 9 rests upon the floor 7 of the said bore against the pressure of the spring 17, it being understood that the key 11 is turned away from the key hole slot 8 provided by the said floor. The head 13 is, when the device is in this position, projected through the opening of the cap 16. When the nut 2 has been screwed home and it is desired to lock the same upon the bolt 1, the bayonet slot 14 of the key member 15 is brought into engagement with the T-shaped head 13 of the dog 9 so as to rotate the said dog and to allow its bead 11 to be brought directly over the key hole slot 8 of the floor 7 and to be forced downwardly into engagement with the longitudinal slot 4 of the bolt 1 through the medium of the spring 17. When the head 10 of the member 9 is brought into this position, as illustrated in Figs. 1 and 2 of the drawing, the key 15 may be given a further turn so as to bring the bead 11 away from the slot 8 and position the head 10 within the recess 4, thus preventing accidental removal of the said dog 10 and effectively securing the nut upon the bolt. The cap 16 may have its outer face provided with transverse slots 19, and the key member 15 has its outer face flattened as at 18 so as to provide a head which may be inserted within the said transverse slots and whereby the cap 16 may be removed from the bore 6 of the nut when the said cap is threadedly secured to the bore.

Having thus described the invention, what I claim as new is:—

1. In combination with a threaded bolt

having longitudinal bores, of a nut for the bolt, said nut being provided with a bore having a reduced annular offset portion, said offset being provided with a reduced cut away portion, a spring pressed locking dog normally resting upon the offset shoulder, said dog having its lower portion of a size corresponding with the opening of the offset of the bore and being further provided with a bit corresponding with the reduced opening of the offset, and means for rotating the locking dog to bring its bit and lower body portion into alinement with the openings provided by the bore.

2. In combination with a threaded bolt provided with longitudinally extending slots, of a nut for the bolt, said nut being pro-

vided with a bore communicating with the threads of the bolt said bore having its lower portion provided with an offset, a cut away portion within the offset, a locking dog within the bore, said locking dog having a lower enlarged portion provided with a bit, a T-shaped head upon the dog, a collar for the bore, and a spring between the collar and the enlarged portion of the locking dog, and means for rotating the locking dog, substantially as and for the purpose set forth.

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

AUDRECIE LE BLANC.

Witnesses:

G. ROBERTON,
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