P. P. JARGICK.

NUT LOCK.

APPLICATION FILED SEPT. 30, 1909.

969,537. **Patented Sept. 6, 1910.**

Fig. 1.

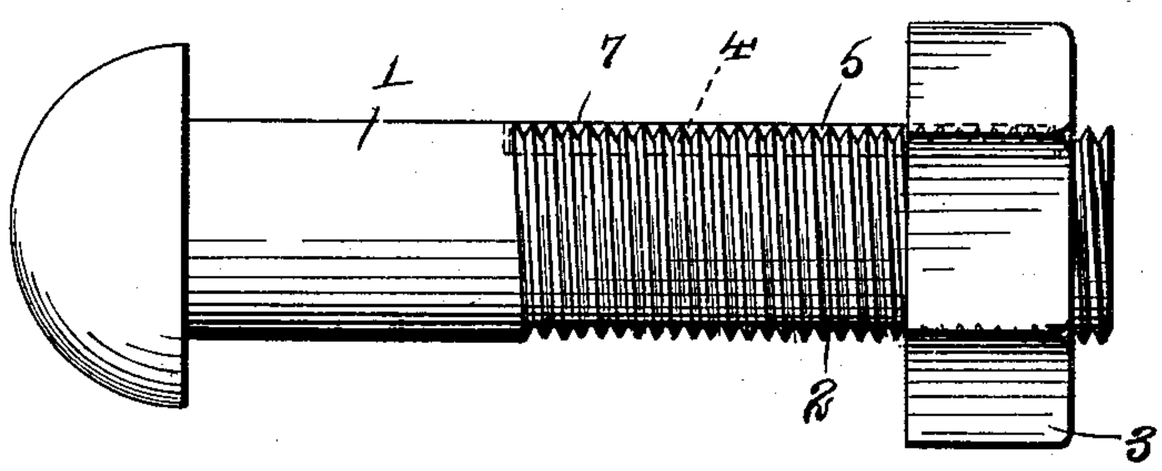


Fig. 2

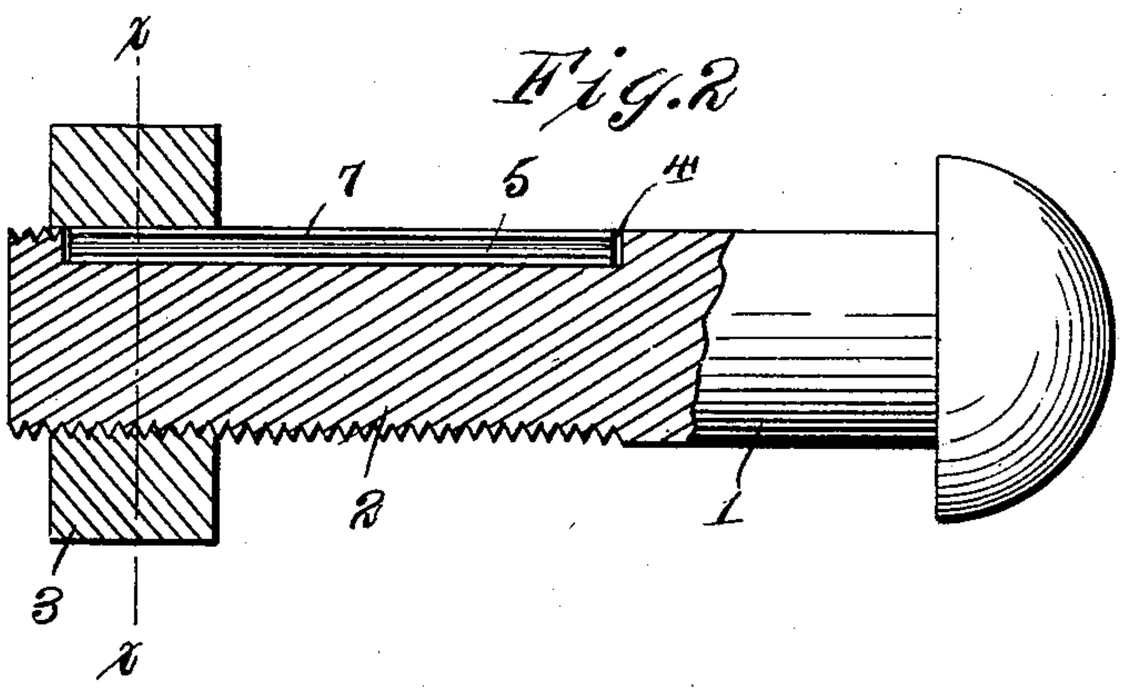


Fig. 4

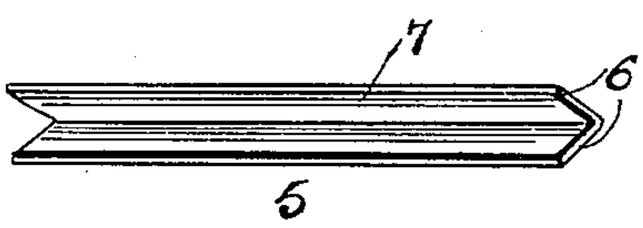
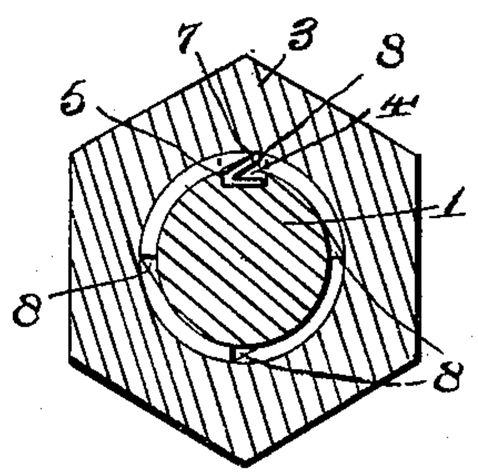


Fig. 3.



Witnesses:
A. A. Olson
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UNITED STATES PATENT OFFICE.

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NUT-LOCK.

969,537. Specification of Letters Patent. Patented Sept. 6, 1910.

Application filed September 30, 1909. Serial No. 520,368.

To all whom it may concern:

Be it known that I, PETER P. JARGICK, a citizen of the United States, residing at La Grange, county of Cook, and State of Illinois, have invented certain new and useful Improvements in Nut-Locks, of which the following is a specification.

My invention relates to nut locks and the object of my invention is the provision of a device of such character which will be effective in use and which will be strong and durable, and simple of construction hence of low cost to manufacture.

Other objects will appear hereinafter.

With these objects in view my invention consists in a nut lock characterized as above mentioned and in certain details of construction and arrangement of parts all as will be hereinafter fully described and particularly pointed out in the appended claims.

My invention will be more readily understood by reference to the accompanying drawing forming a part of this specification, and in which,

Figure 1 is a side elevation of a bolt and a nut threaded thereon in which is embodied the preferred form of my improvement, Fig. 2 is a partial side elevation and central vertical longitudinal section, Fig. 3 is a transverse section taken on the line *x*—*x* of Fig. 2, and Fig. 4 is a detail perspective of the locking member proper included in the invention.

Referring now to the drawings, 1 indicates an ordinary bolt upon the threaded end 2 of which is threaded the usual nut 3. Formed in the threaded end 2 of the bolt 1 is a longitudinally extending recess or channel 4 substantially coextensive with the threaded portion of said bolt, as clearly shown in Fig. 2. Loosely resting in said recess is a locking member 5, the same being preferably formed of angular resilient sheet metal substantially V-formed in cross section, the divergent portion 6 of said member being so disposed that, when said member is arranged in the recess 4 with one of said portions resting flat upon the bottom of the latter, the outer edge 7 of the outermost of said portions will project slightly beyond the outer threaded surface of the bolt. Formed in the threaded inner surface of the nut 3 is a plurality of longitudinally extending ratchet grooves 8.

With such construction, when the nut is positively rotated upon the bolt, the locking member will evidently readily pass the ratchet grooves. But, said grooves will prevent retrograde rotation of the nut since the radially disposed sides thereof are adapted to register with the edge 7 of the locking member which is pressed into engagement therewith because of the resiliency of the metal of the locking member.

It will be observed that the recess 4 terminates at a distance from the end of said bolt less than the thickness of nut 3. By this arrangement the nut will be locked against retrograde rotation while in any position on the bolt threads and the locking member will always be securely held in said recess while the nut is on the bolt.

While I have shown what I deem to be the preferred form of my device I do not wish to be limited thereto as there might be various changes made in the details of construction without departing from the spirit of the invention comprehended within the scope of the appended claims.

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

1. In a nut lock, a threaded bolt and a threaded nut adapted to receive said bolt, longitudinally extending ratchet grooves in the threaded portion of said nut, a longitudinally extending recess in the threaded portion of said bolt, the bottom of said recess being perpendicular to the radius bisecting it, a locking member loosely resting in said recess, said locking member being formed of angular resilient metal substantially V-formed in cross section, one of the divergent portions of said locking member resting flat upon the bottom of said recess, the other divergent portion projecting obliquely outwardly therefrom, the outer edge of the last mentioned portion being adapted to engage said ratchet grooves to prevent retrograde rotation of said nut upon said bolt, substantially as described.

2. In a nut lock, a threaded bolt and a threaded nut adapted to receive said bolt, longitudinally extending ratchet grooves in the threaded portion of said nut, a longitudinally extending recess in the threaded portion of said bolt, the said recess being substantially the full length of the thread and terminating at a distance from the end of said bolt less than the thickness of said nut,

a locking member resting in said recess, said locking member being formed of angular resilient metal substantially V-formed in cross section, one of the divergent portions of said locking member resting flat upon the bottom of said recess, the other divergent portion projecting obliquely and outwardly therefrom, the outer edge of the last mentioned portion being adapted to engage said ratchet grooves to prevent retrograde rotation of said nut upon said bolt, substantially as described.

3. In a nut lock, a threaded bolt and a threaded nut adapted to receive said bolt, longitudinally extending ratchet grooves in the threaded portion of said nut, a longitudinally extending recess in the threaded portion of said bolt, the said recess being substantially the full length of the thread and terminating at a distance from the end of said bolt less than the thickness of said nut, the bottom of said recess being perpendicular to the radius bisecting it, a locking member resting in said recess said locking member being formed of angular resilient metal substantially V-formed in cross section, one of the divergent portions of said locking member resting flat upon the bottom of said recess, the other divergent portion projecting obliquely and upwardly therefrom, the outer edge of the last mentioned portion being adapted to engage said ratchet grooves to prevent retrograde rotation of said nut upon said bolt, substantially as described.

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

PETER PAUL JARGICK.

Witnesses:
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JANET E. HOGAN.