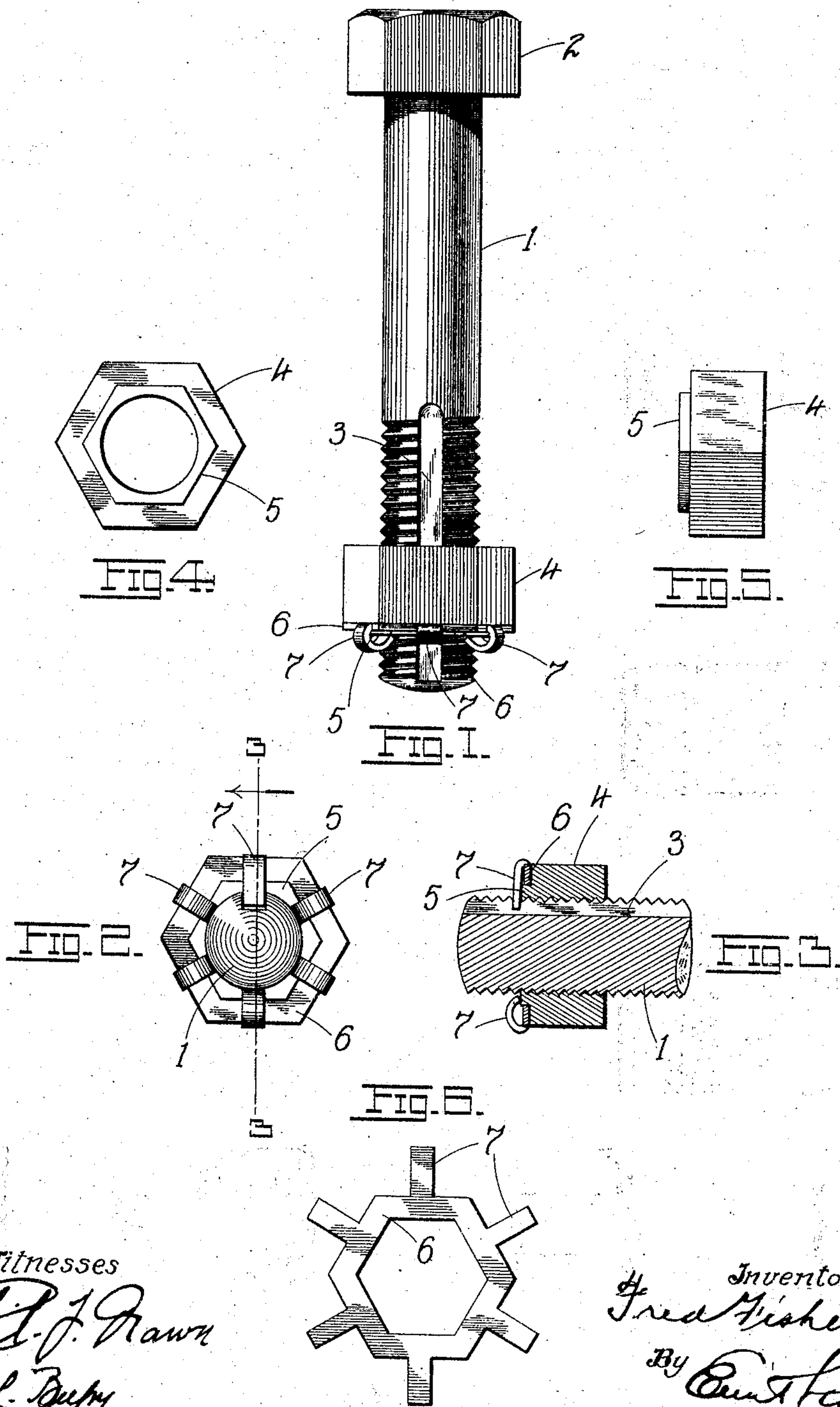


No. 781,140.

PATENTED JAN. 31, 1905.

F. FISHER.
NUT LOCK.

APPLICATION FILED JUNE 13, 1904.



Witnesses
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NUT-LOCK.

SPECIFICATION forming part of Letters Patent No. 781,140, dated January 31, 1905.

Application filed June 13, 1904. Serial No. 212,331.

To all whom it may concern:

Be it known that I, FRED FISHER, a citizen of the United States, residing at St. Louis, State of Missouri, have invented certain new and useful Improvements in Nut-Locks, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, forming a part hereof.

My invention has relation to improvements in nut-locks; and it consists in the novel construction of lock more fully set forth in the specification and pointed out in the claims.

In the drawings, Figure 1 is an elevation of a bolt, showing my invention applied thereto. Fig. 2 is an end view of the same. Fig. 3 is a section on line 3 3 of Fig. 2. Fig. 4 is a detached plan view of the nut. Fig. 5 is a side view of the nut, and Fig. 6 is a plan view of the blank constituting the locking-key.

The object of my invention is to construct a nut-lock which will effectively lock the nut against turning after being once screwed to any required position.

In detail the invention may be described as follows:

Referring to the drawings, 1 represents a bolt, and 2 the head thereof. Cut from the screw-threaded portion of the bolt is a longitudinal groove or depression 3. In the present instance the outer face of the nut 4 has formed thereon a polygonal shoulder 5, having a number of sides corresponding to the number of sides of the nut, (in the present instance six, though, of course, the nut may be square or four-sided.) Over this shoulder is passed the polygonal blank 6, provided with arms 7, which are subsequently bent upward toward the bolt, Figs. 1, 2, 3, and when the nut has been screwed to the required degree along the threaded portion of the bolt one of the arms 7 is pressed into the groove 3, thereby effectively locking the nut against turning or unscrewing. The number of arms 7 correspond, preferably, to the number of sides of the blank or key 6, so that one arm at least shall always be (upon the turning of the nut through an arc of sixty degrees) opposite the groove 3. To remove the nut, the particular

arm 7 which has been forced into the depression 3 can be bent outwardly therefrom, when the nut will again be free to turn in either direction. Preferably the arms 7 are disposed between the angles of the blank 6, whereby a comparatively shorter arm is necessary to engage the groove 3 than would be the case were the arms located at the angles of the blank.

The blank 6 fits tightly over the shoulder 5 and is frictionally and permanently held thereon, the fit being so close that there is no danger of the blank working off.

I do not, of course, wish to be limited to the precise details here shown, as they may in a measure be departed from without in any wise affecting the nature or spirit of my invention.

Having described my invention, what I claim is—

1. The combination with a bolt having a screw-threaded portion and a longitudinal groove formed therein, of a nut-lock comprising a nut having a polygonal shoulder formed along the outer face of the same, a blank or key having a polygonal opening adapted to be passed over said shoulder and held frictionally thereto, and a series of bendable locking-arms radiating from said blank and adapted to be successively brought into engagement with the groove aforesaid, substantially as set forth.

2. The combination with a bolt having a screw-threaded portion and a longitudinal groove formed therein, of a nut-lock comprising a nut having a polygonal shoulder formed thereon, a blank or key having a polygonal opening through which the shoulder may be passed, and having a series of bendable arms radiating from the several sides of the blank for engagement with the longitudinal groove aforesaid, substantially as set forth.

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

FRED FISHER.

Witnesses:

EMIL STAREK,
G. L. BELFRY.