(No Model.)

W. N. SEARS.

NUT LOCK.

No. 380,526. Patented Apr. 3, 1888.

Fig. 1.

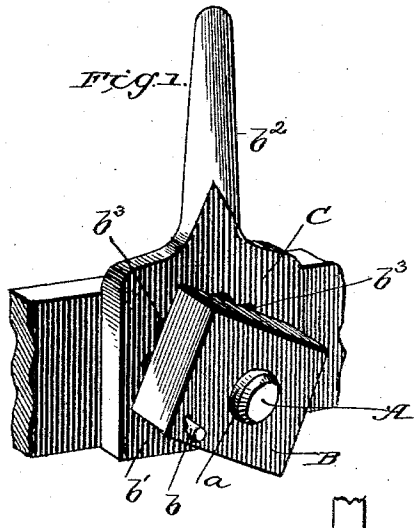


Fig. 2.

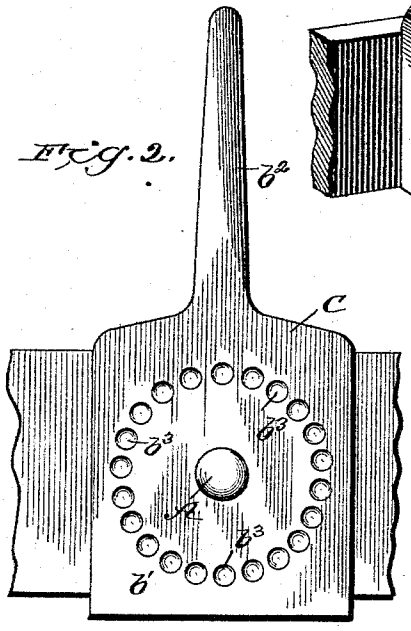


Fig. 3.

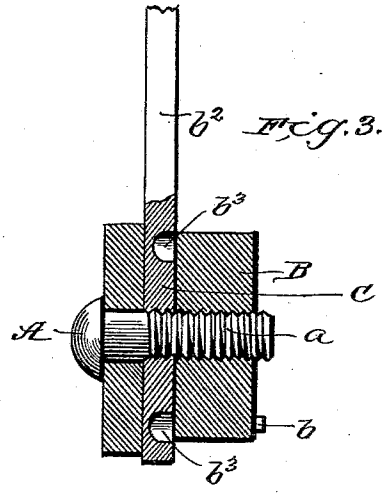
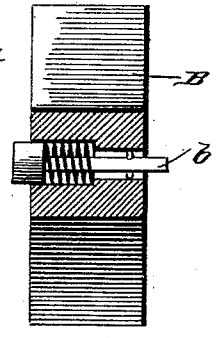


Fig. 4.



WITNESSES

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UNITED STATES PATENT OFFICE.

WILLIAM N. SEARS, OF WELLINGTON, KANSAS, ASSIGNOR OF ONE-HALF TO M. V. B. HOLMES, OF SAME PLACE.

NUT-LOCK.

SPECIFICATION forming part of Letters Patent No. 380,526, dated April 3, 1888.

Application filed December 31, 1887. Serial No. 259,454. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM N. SEARS, a citizen of the United States of America, residing at Wellington, in the county of Sumner and State of Kansas, have invented certain new and useful Improvements in Nut-Locks, of which the following is a specification, reference being had therein to the accompanying drawings.

This invention pertains to certain new and useful improvements in nut-locks, having for its object the provision of a simple and improved device of this character, whereby the nut can be easily screwed "home" and readily tightened in position by means of a suitable key employed in connection therewith.

The invention consists, briefly, in providing the nut with a spring-held finger, which is designed to engage with any one of a series of correspondingly-formed recesses of a handled key, through which the bolt is also passed, said key being interposed between the inner face of the nut and the outer face of the article secured.

To these ends my invention comprises the detail construction, combination, and arrangement of parts, substantially as hereinafter fully set forth, and particularly pointed out in the claim.

In the accompanying drawings, Figure 1 is a view in perspective of my invention. Fig. 2 is a plan view of the tightening-key in position with the nut removed. Fig. 3 is a vertical sectional view with the nut in position; and Fig. 4 is a sectional view of the nut, showing the spring-held finger secured therein.

Referring to the drawings, A indicates an ordinary bolt provided, as usual, with a threaded portion, *a*, whereon is designed to work the nut B, said nut being provided with a central threaded aperture, as shown.

The nut B, in one corner thereof, or at any other suitable point, has disposed in an aperture a finger, *b*, which has a spring encircling its narrowed portion, causing its thickened end to project beyond the inner face of the nut, as shown, the narrowed end of said finger also being projected a short distance beyond the outer face of said nut.

C is a key designed to be interposed between the outer surface of the article through which the back A is passed and the inner surface of the nut B, said key comprising an approximately square-shaped portion, b', and a projecting handle, b^2, said square-shaped portion having a central threaded aperture through which the bolt A is designed to extend.

In the outer face of the square-faced portion b' of the key C is formed a circularly-disposed series of holes or recesses, b^3, which extend about one-half way through said square-shaped portion of the key, said holes or recesses being of the same diameter as the thickened projecting end of the spring-held finger *b*.

In practice the bolt A is projected through the article or articles to be secured. The key C is then screwed thereon, and the nut B is then in turn also screwed upon said bolt until the spring-held finger thereof comes in contact with and enters one of the holes or apertures b^3 in said key, when by grasping the handle of said key and turning the same said nut will be firmly screwed home, thus providing means for tightening said nut when the same becomes loose.

It is well known in practice that nuts, especially those employed in connection with railroads, are liable to become easily loosened or deranged, whereby the bolt will sooner or later move from its proper position, and this objection my invention is designed to obviate, the same being accomplished by first screwing on the key C, and then firmly screwing the nut B onto the bolt, when the spring-held finger thereof will come in contact with one of the recesses or openings of the key, and turning said key said nut will be screwed firmly home.

I claim as my invention—

In a nut-lock, the combination of the key having a square-shaped portion and a handle, and a series of circularly-arranged holes or apertures, the nut having an aperture near one corner thereof and the spring-held finger disposed in said aperture, substantially as shown and described.

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

WILLIAM N. SEARS.

Witnesses:
ARCHIBALD R. ANDERSON,
WITT T. WALKER.