

H. W. McCauley,

Nut Lock.

No. 108613.

Patented Oct. 25. 1870.

Fig. 1

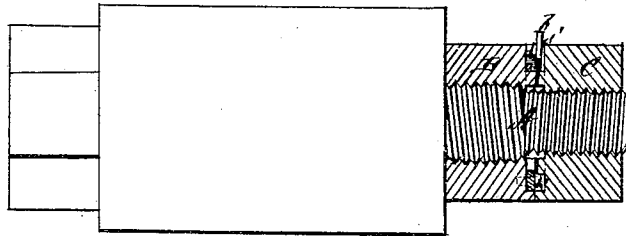


Fig. 2

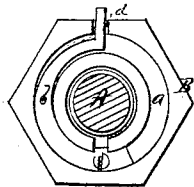
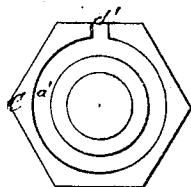


Fig. 3



WITNESSES

Arthur S. Yeatman
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INVENTOR

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per
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Att'y.

United States Patent Office.

HENRY W. MCAULEY, OF STERLING, WISCONSIN.

Letters Patent No. 108,613, dated October 25, 1870.

IMPROVEMENT IN NUT-LOCKS.

The Schedule referred to in these Letters Patent and making part of the same

To all whom it may concern:

Be it known that I, HENRY W. MCAULEY, of Sterling, in the county of Vernon and State of Wisconsin, have invented certain new and useful Improvements in Nut-Locks; and do hereby declare the following to be a full, clear, and exact description thereof, reference being had to the accompanying drawing and to the letters of reference marked thereon.

The nature of my invention consists in providing the bolt with a right and a left-hand screw-thread, and using two corresponding nuts which are grooved on the adjoining surfaces, and a spring inserted therein for locking them.

In order to enable others skilled in the art to which my invention appertains to make and use the same, I will now proceed to describe its construction and operation, referring to the annexed drawing, which forms a part of this specification, and in which—

Figure 1 is a side view of the bolt, showing the two nuts in section;

Figure 2 is an outside view of the inner nut; and Figure 3 is an inside view of the outer nut.

A represents the bolt, which is provided at its outer end with a right-hand and a left-hand screw, as shown in fig. 1. The outer screw-thread is that much smaller than the inner, so that the inner nut or tap can readily slip over the same.

Two nuts, B and C, are put on the bolt A, the nut B corresponding with the inner screw-threads and the nut C with the outer.

The outer surface of the inner nut C is provided with an annular groove, *a*, in which is placed a steel spring, *b*, secured by a screw at one end extending

around one-half of the groove, and its other end bent outward through a slot, *d*, in the nut, directly opposite the screw which secures the spring.

The inner surface of the outer nut C is provided with a similar groove, *a'*, and slot, *d'*.

The inner nut B being screwed tight, the outer nut C is also screwed up against the inner nut.

The inner end of the spring *b* is made to rest or fit in the groove on the inner nut, while the outer end springs outward into the groove in the outer nut.

The aperture or slot *d'* is so constructed that the front or outer end of the spring *b* rests in the same, which locks the outer nut to the inner. It is unlocked by pressing the protruding portion of the spring to the bottom of the aperture *d* in the inner nut, when the outer nut can be unscrewed.

When the nuts are locked it will be seen that the inner nut cannot turn inward, because it bears against the thing secured, and not outward, because it bears against the outer nut. The outer nut can turn outward, because the spring holds it in place.

Having thus fully described my invention,

What I claim as new, and desire to secure by Letters Patent, is—

The combination of the two nuts B and C, provided with grooves *a a'*, spring *b*, and slots or apertures *d d'*, and bolt A, constructed as herein set forth.

HENRY W. MCAULEY.

Witnesses:

J. H. HINDS,
W. H. STIMBLE,
ALEXANDER LATSHAW,
HIRAM H. FERGUSON.