

(No Model.)

W. J. McTIGHE.

NUT LOCK.

No. 307,671.

Patented Nov. 4, 1884.

Fig. 1.

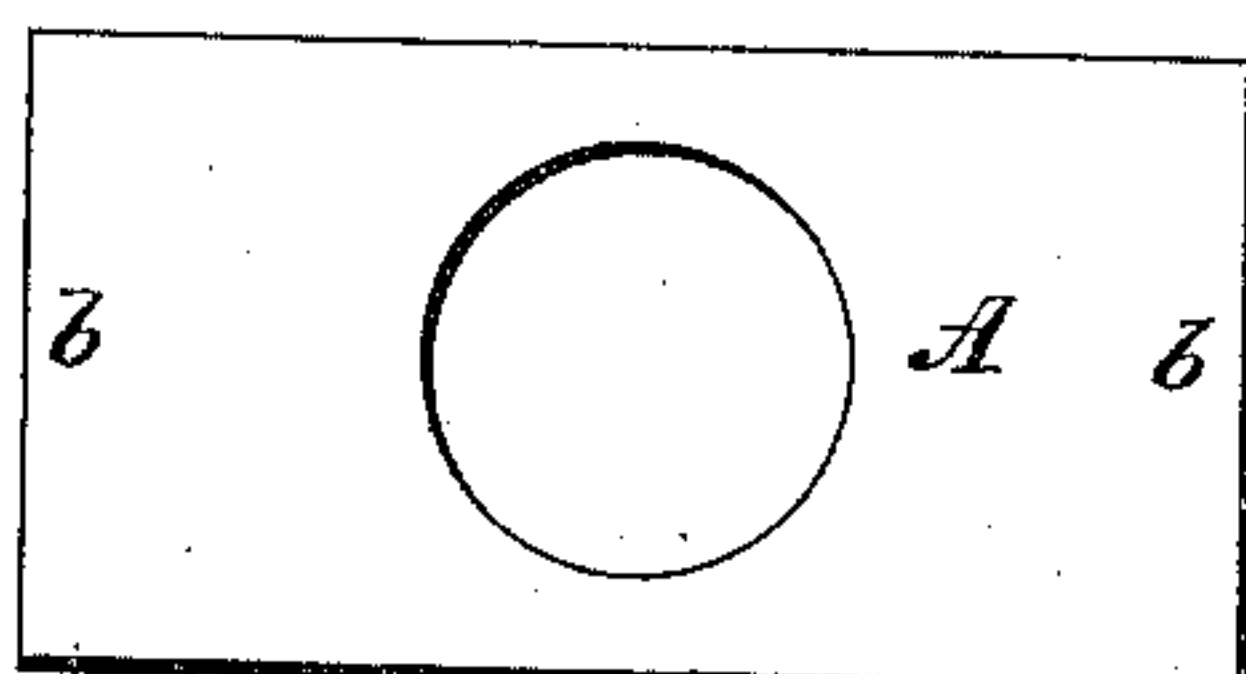


Fig. 5.

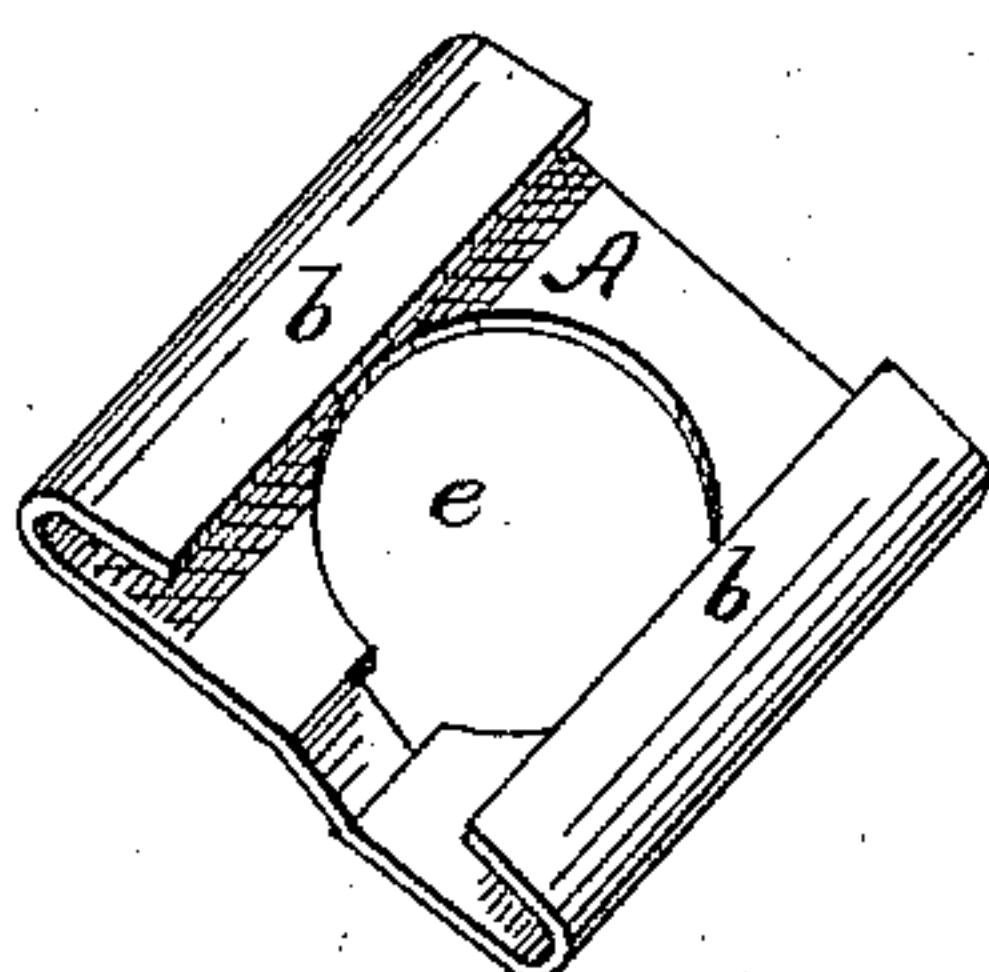


Fig. 2.

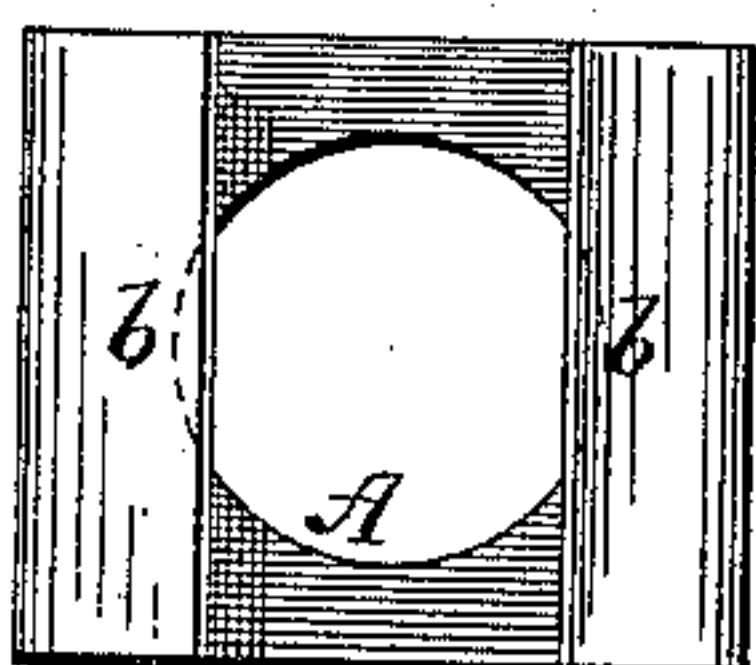


Fig. 6.

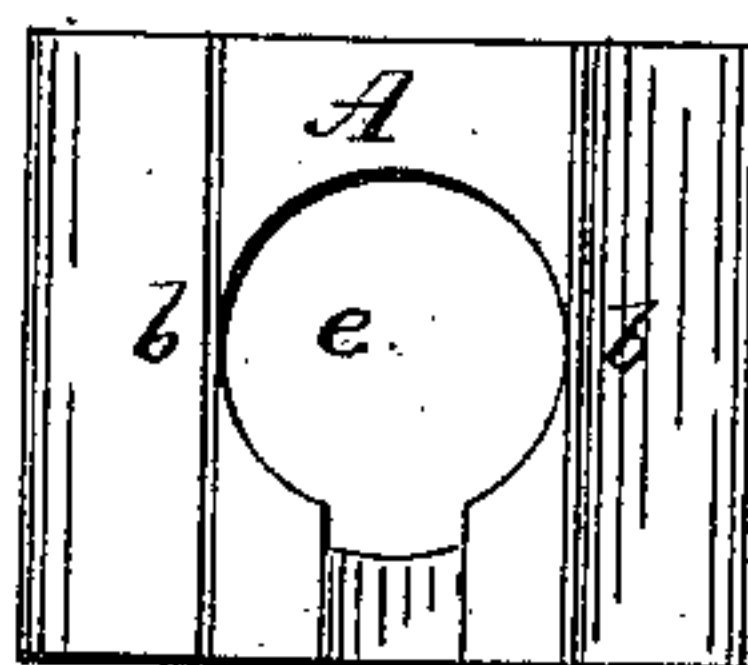


Fig. 3.



Fig. 4.

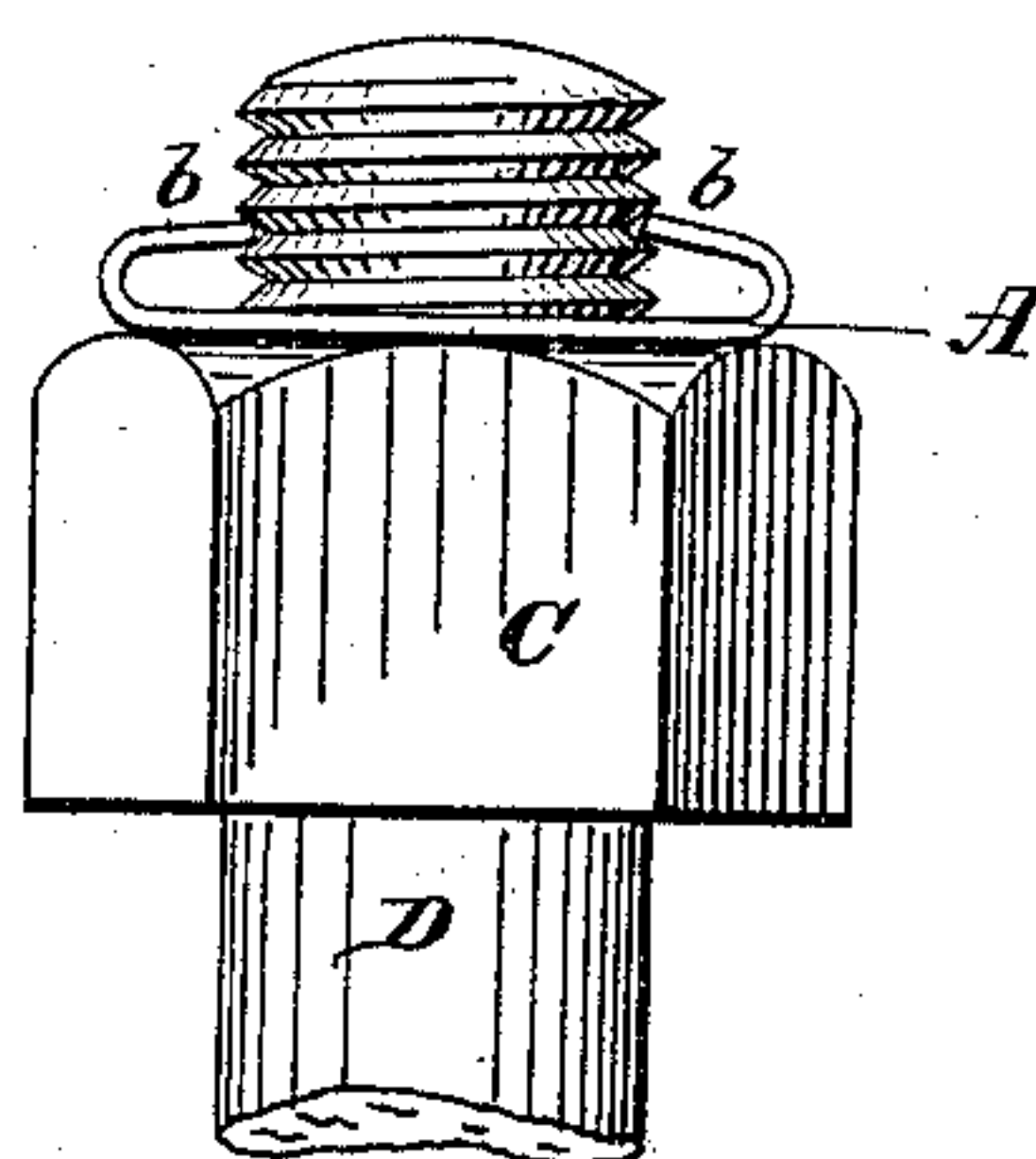


Fig. 9.

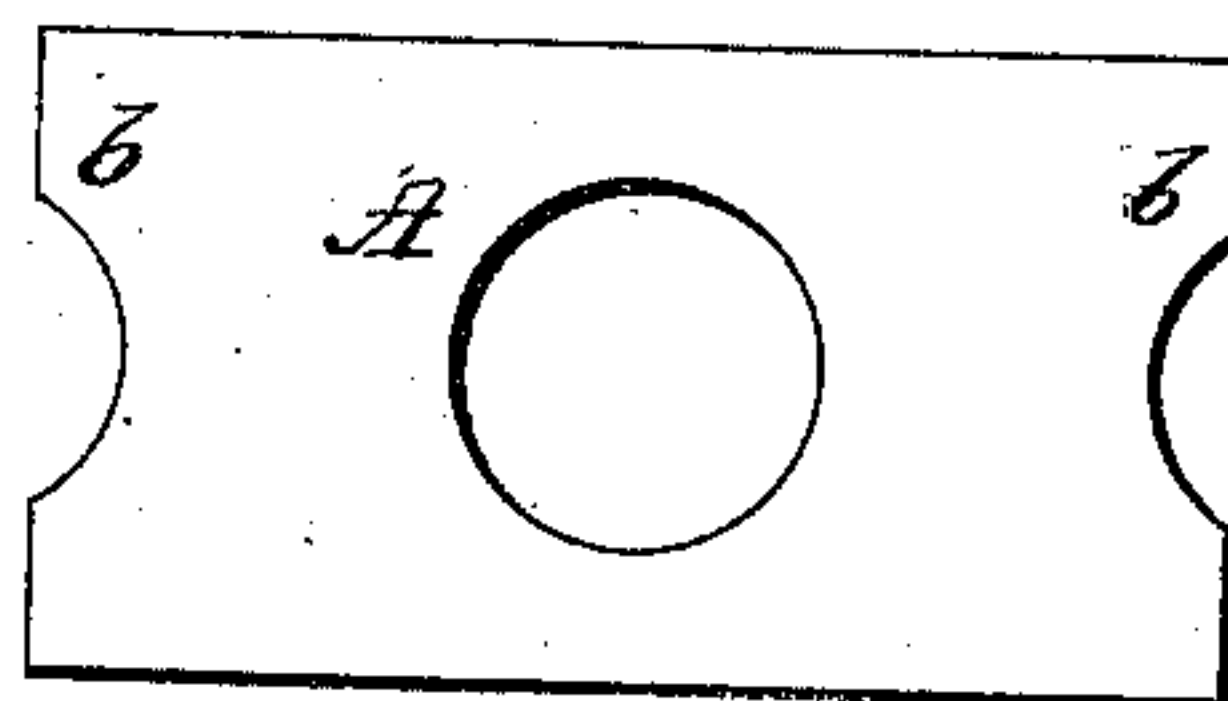


Fig. 8.

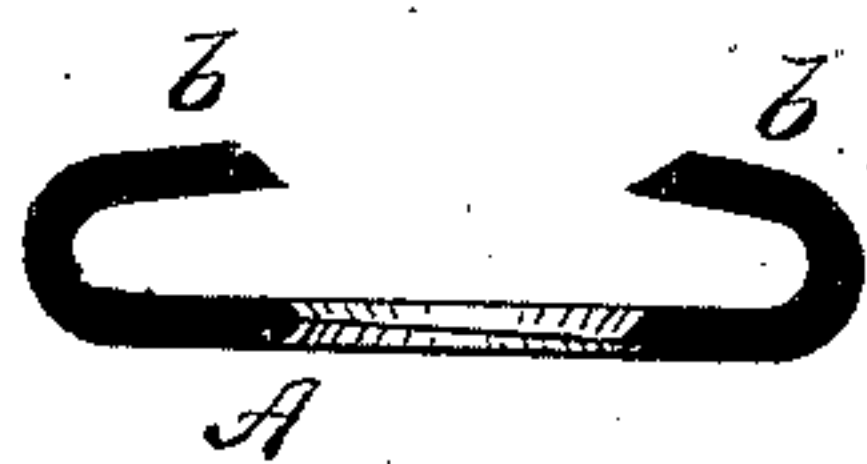


Fig. 7.



WITNESSES:

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# UNITED STATES PATENT OFFICE.

WILLIAM JOSEPH MCTIGHE, OF PITTSBURG, PENNSYLVANIA.

## NUT-LOCK.

SPECIFICATION forming part of Letters Patent No. 307,671, dated November 4, 1884.

Application filed March 15, 1884. (No model.)

*To all whom it may concern:*

Be it known that I, WILLIAM J. MCTIGHE, of Pittsburg, in the county of Allegheny and State of Pennsylvania, have invented certain new and useful Improvements in Nut-Locks; and I do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, which form a part of this specification, in which—

Figure 1 is a plan view of the blank; Fig. 2, a plan of the same with edges folded. Fig. 3 is an edge view. Fig. 4 is an elevation of bolt and nut with my lock applied. Figs. 5 and 6 are respectively a perspective and plan of a modification. Fig. 7 shows the curved form. Figs. 8 and 9 are modifications.

This invention relates to that class of devices known as "nut-locks;" and it consists in the peculiar construction of a plate adapted to be screwed upon a bolt over the nut, substantially as hereinafter fully described and claimed.

In the drawings, A designates a plate of iron or steel or other suitable metal having a hole adapting it to pass onto the bolt to which it is to be applied. One edge, or two opposite edges, *b b*, of the plate A are folded or bent back on themselves, the fold being so made with reference to the diameter of the bolt that the edges *b* can enter on the bolt only by being sprung onto the thread or by being screwed on like a nut—that is, the distance between the edges *b b* is somewhat less than the outer diameter of the bolt-thread when the lock is applied. The nut C being screwed home on bolt D, I apply the plate A (see Fig. 4) and cause the edges *b* to follow down the bolt-thread until the face of the plate A meets the nut C. Further effort to turn the plate A causes the edges *b* to grip tightly into the thread of the bolt, since the downward pressure on said edges *b* tends to draw them toward the body of plate A and increase the extent of fold given them originally; hence the edges

*b* approaching the plate A also tend to approach each other and bite harder on the bolt. The folds serve as stiffening also for easy application of a wrench. The bending of the plate to form the locking edges *b* may also be applied to the nut-locking plate patented by me and shown in Letters Patent of the United States No. 282,348. Such application is shown by Figs. 5 and 6, where A is the plate having notched helical bolt-hole *e*, as described in said patent, and the folded edges *b* of the present invention. Here a double lock is afforded—that of the helical hole and that of the thread-following edges *b*.

In any of the aforesaid modifications the plate A may be curved outwardly, as shown by Fig. 7. Another modification is shown by Fig. 8, wherein the plate has the turned-up edges *b*, as before explained, and has besides a regular screw-thread cut on its bolt-hole edges, so as to enable it to be screwed on the bolt like a shallow nut. Such a plate would be of somewhat thicker metal than the other forms shown. All of these forms can be made with semicircular outer edges, so that when the edges are folded over they form a nearly complete helix when run onto the thread of the bolt. (See Fig. 9.)

I claim as my invention—

1. The improved nut-lock consisting of a metal plate, A, perforated for the passage of a bolt, and having its edge or edges folded back and adapted to take into the bolt-threads, substantially as described.

2. A nut-lock consisting of a plate having a helically-formed central bolt-hole, and having its edge or edges folded back and adapted to screw onto a bolt by said edges following in the bolt-thread, substantially as described.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in presence of two witnesses.

WILLIAM JOSEPH MCTIGHE.

Witnesses:

D. E. DAVIS,

THOMAS O'CONNOR.