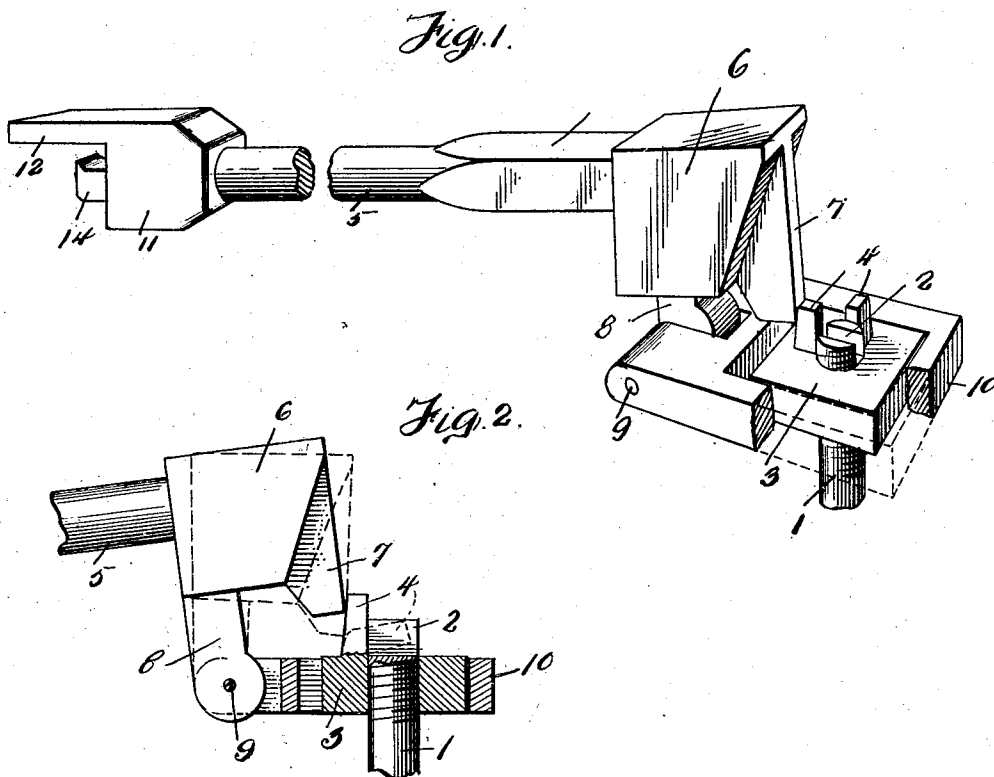


No. 869,153.

PATENTED OCT. 22, 1907.

J. J. AMRHEIN.
TOOL FOR LOCKING NUT LOCKS.
APPLICATION FILED MAY 3, 1907.



WITNESSES:

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JOHN J. AMRHEIN, OF JOHNSTOWN, PENNSYLVANIA, ASSIGNOR OF ONE-HALF TO ARTHUR AMRHEIN, OF JOHNSTOWN, PENNSYLVANIA.

TOOL FOR LOCKING NUT-LOCKS.

No. 869,153.

Specification of Letters Patent.

Patented Oct. 22, 1907.

Application filed May 3, 1907. Serial No. 371,584.

To all whom it may concern:

Be it known that I, JOHN J. AMRHEIN, a citizen of the United States of America, residing at Johnstown, in the county of Cambria and State of Pennsylvania, have invented certain new and useful Improvements in Nut-Locks and Tools for Locking the Same, of which the following is a specification, reference being had therein to the accompanying drawing.

This invention relates to improvements in tools for locking nut locks, and the invention has for its primary object to provide a novel tool for locking a nut upon a bolt, the tool being easily and quickly manipulated to accomplish the above result. Said improved tool is designed especially for use in that class of nut locks in which it is necessary to bend a binding member into and out of engagement with the bolt.

With the above and other objects in view, the invention consists in the novel construction, combination and arrangement of parts to be hereinafter more fully described and then specifically pointed out in the appended claims.

Referring to the drawing forming part of this specification, like numerals of reference designate corresponding parts throughout the several views, in which:

Figure 1 is a perspective view of a nut lock showing the adaptation therewith of a tool in accordance with this invention, and Fig. 2 is a side elevation of the tool partly in section as employed in the locking operation.

In the accompanying drawing, I have illustrated a bolt and nut in conjunction with my improved tool and the manner of using the same for locking a nut upon a bolt. I have illustrated the nut in a horizontal position to more clearly show the manner of locking and unlocking the same, but it will be understood that in the majority of instances the nut is in a vertical position, as in connection with a splice bar or plate.

The form of nut lock herein illustrated and in conjunction with which I have shown the workings of my improved tool, is constructed by providing the threaded end of a bolt 1 with a slot 2, while the nut 3 threaded upon the bolt 1 is provided with two lugs 4, either of which is bent into the slot 2 of the bolt 1 to prevent the nut 3 from rotating upon the bolt. The lugs 4 are preferably constructed of malleable iron, or a material that can be easily bent.

The tool which I use in connection with a nut lock for locking the nut upon the bolt 1, consists of a handle 5 of a desired length. One end of the handle is provided with a head 6 having a web or tooth 7 and a depending pierced arm 8. Pivotally connected to the arm 8 by a pin 9 is a spanner head 10 adapted to fit over the nut 3. When the spanner head has been placed

over the nut 3, the handle 5 can be elevated, causing the web or tooth 7 to impinge one of the lugs 4, and force the same into the slot 2 of the bolt 1, as shown by dotted lines in Fig. 2. The opposite end of the handle is provided with a head 11 having an extension 12 and a tooth 14 to be employed in releasing the lug 4 from its engagement with the end slot 2 of the bolt 1.

It will be observed that I have devised a novel tool for easily and quickly locking a nut upon a bolt. The tool is constructed of strong and durable material and can be made of various sizes to be used in connection with nuts and bolts of various sizes.

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

1. A tool of the character described comprising a handle, a head fixed to one end thereof and provided on its outer face with a tooth, an apertured arm depending from the head, and a spanner pivotally-connected to the arm, said tooth having its lower portion positioned over the spanner.

2. A tool of the character described comprising a handle, a head fixed to one end thereof, having a beveled pivoted face and a tooth projecting approximately centrally from said face, an apertured arm depending from the head, and a spanner pivotally connected to the arm.

3. A tool of the character described comprising a handle, a head fixed to one end thereof, and provided on its outer face with a tooth, said tooth having its outer edge perpendicular, an apertured arm depending from the head, and a spanner pivotally-connected to the arm.

4. A tool of the character described comprising a handle, a head fixed to one end thereof and provided on its outer face with a tooth, said tooth of greater height than the height of the head, an arm depending from the head, and a spanner pivotally-connected to the arm.

5. A tool of the character described comprising a handle, a head fixed to one end thereof and provided on its outer face with a tooth, said tooth projecting below the lower face of said head, and a spanner pivotally connected with the bottom of the head.

6. A tool of the character described comprising a handle, a head fixed to one end thereof, having a beveled outer face and a tooth projecting from said face, said tooth depending below the bottom of the head, and a spanner pivotally-connected to the head.

7. A tool of the character described comprising a handle, a head fixed to one end thereof and provided on its outer face with a tooth, an apertured arm depending from the head, a spanner pivotally connected to the arm, said tooth having its lower portion positioned over the spanner, and a head fixed to the other end of the handle and having a lateral extension projecting from the top thereof and further provided on its outer face with a tooth having its upper corner upturned.

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

JOHN J. AMRHEIN.

Witnesses:

GEORGE MATTES,
EMIL KAMLER.