

No. 622,895.

Patented Apr. 11, 1899.

J. M. KISSINGER.

NUT LOCK.

(Application filed Jan. 30, 1899.)

(No Model.)

FIG. 1.

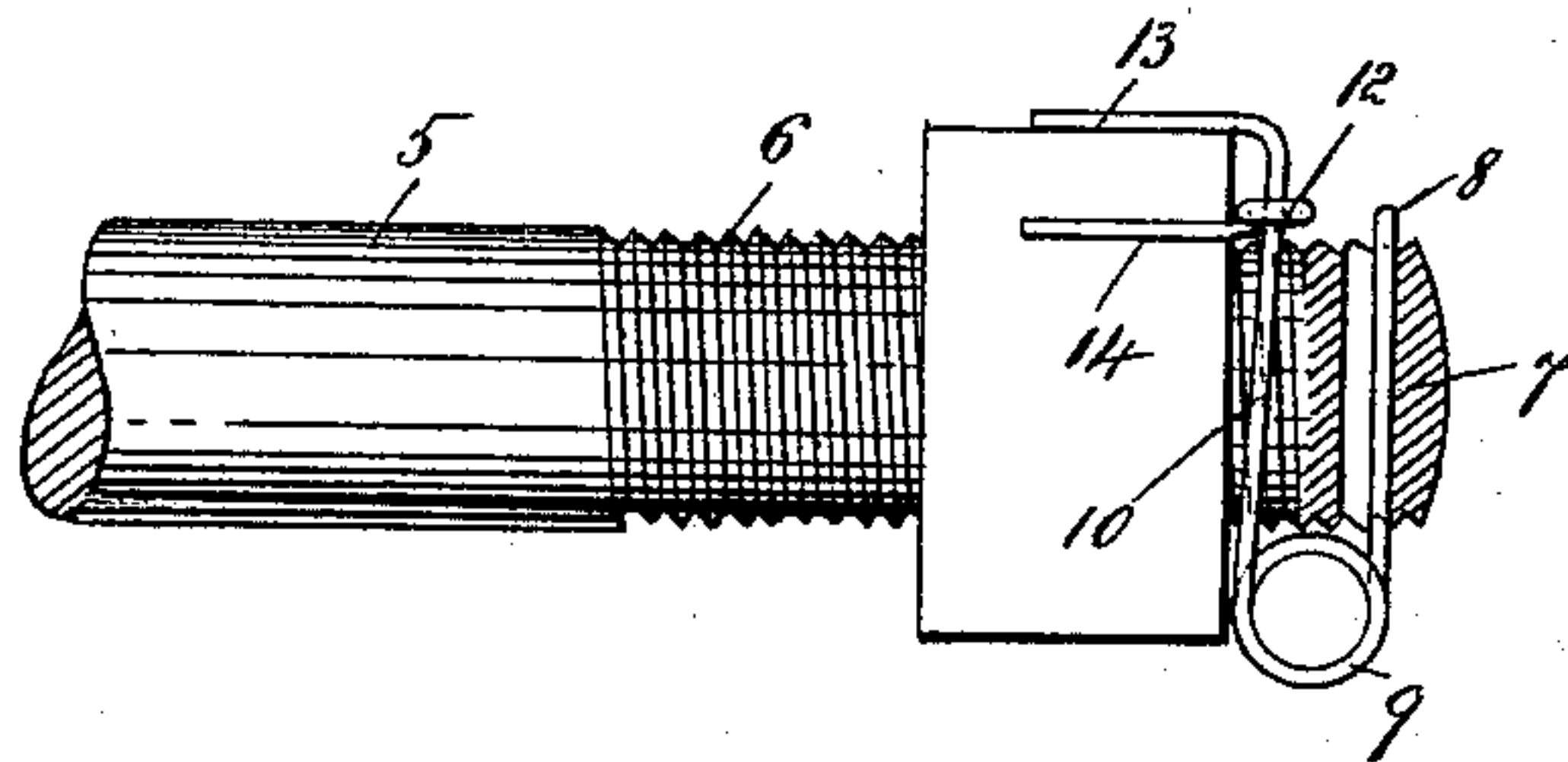


FIG. 2.

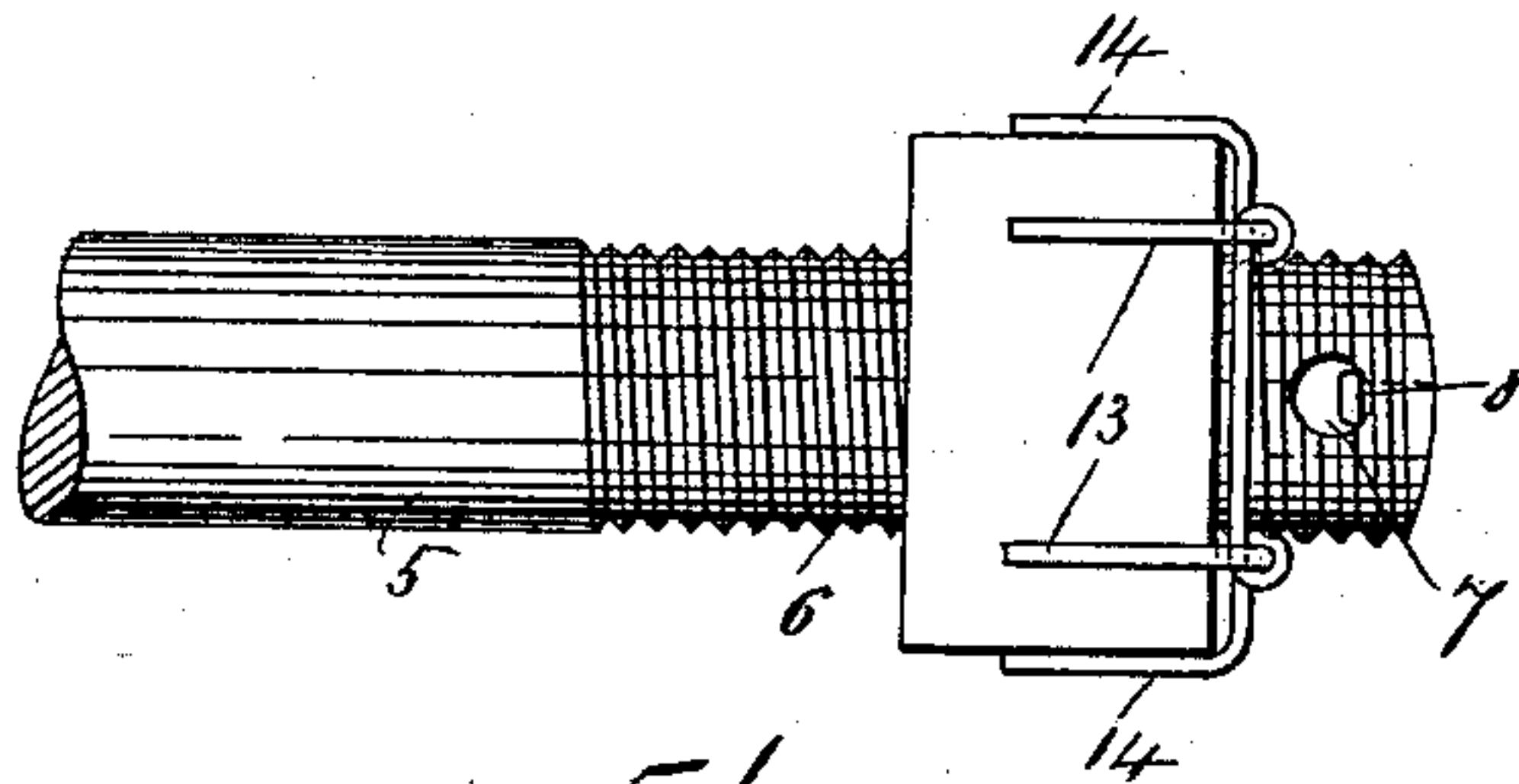
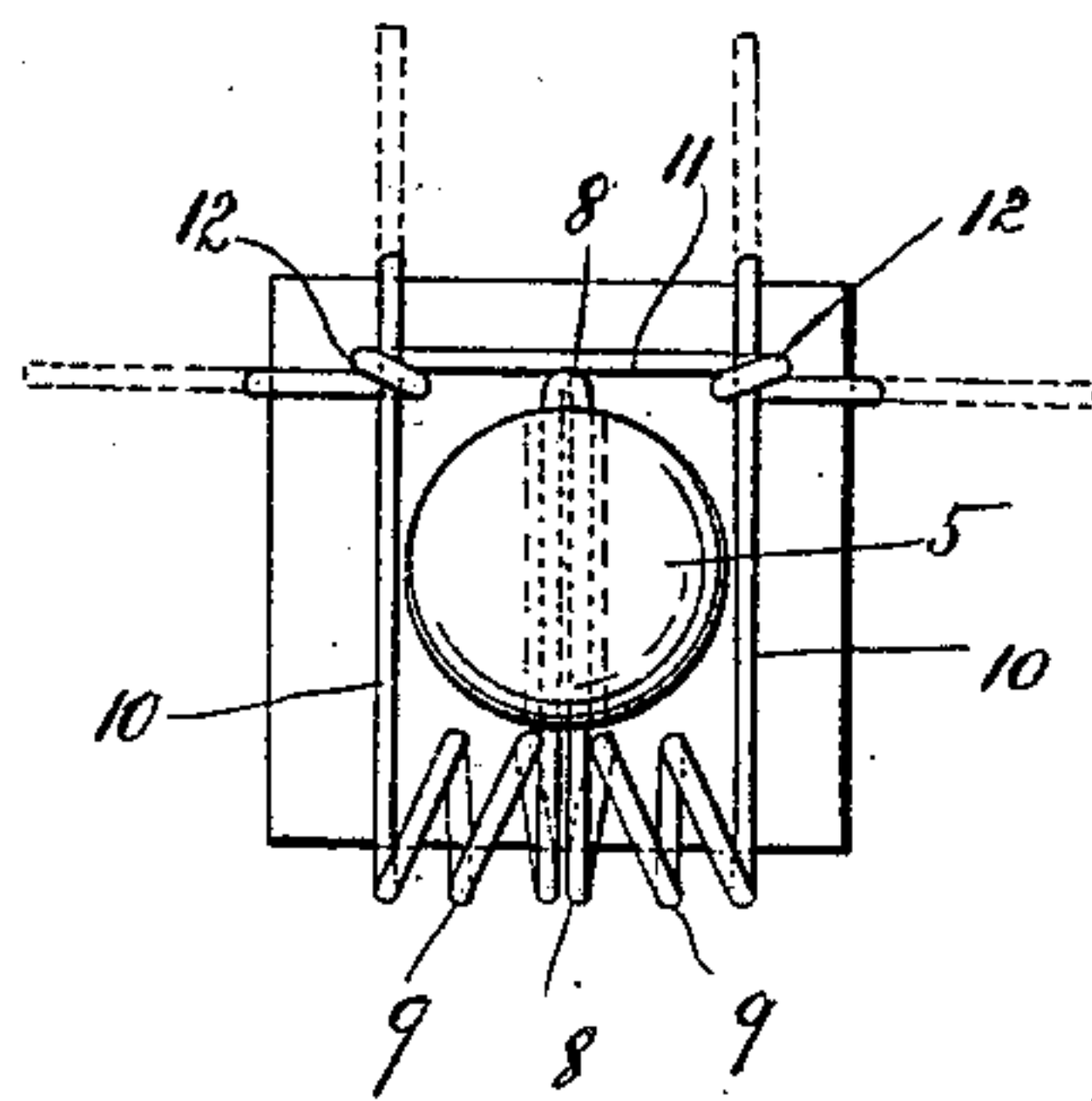


FIG. 3.



WITNESSES

John Buckler,  
F. W. Stewart

INVENTOR

James M. Kissinger,

BY

Edgar Tate & Co.  
ATTORNEYS

# UNITED STATES PATENT OFFICE.

JAMES MONROE KISSINGER, OF POTTSVILLE, PENNSYLVANIA.

## NUT-LOCK.

SPECIFICATION forming part of Letters Patent No. 622,895, dated April 11, 1899.

Application filed January 30, 1899. Serial No. 703,774. (No model.)

*To all whom it may concern:*

Be it known that I, JAMES MONROE KISSINGER, a citizen of the United States, residing at Pottsville, in the county of Schuylkill and State of Pennsylvania, have invented certain new and useful Improvements in Nut-Locks, of which the following is a full and complete specification, such as will enable those skilled in the art to which it appertains to make and use the same.

This invention relates to nut-locks; and the object thereof is to provide an improved device of this class which is simple in construction and operation and which is adapted to be used wherever a nut-lock is required.

The invention is fully disclosed in the following specification, of which the accompanying drawings form a part, in which—

Figure 1 is a side view of the end of a screw-threaded bolt provided with a nut and my improved nut-lock, part of the construction being shown in section; Fig. 2, a plan view thereof, and Fig. 3 an end view.

In the drawings forming part of this specification the separate parts of my improvement are designated by the same numerals of reference in each of the views, and in said drawings I have shown at 5 a bolt provided with a screw-threaded end 6, in which is formed a transverse bore 7.

My improved nut-lock is composed entirely of spring-wire, a piece of which is folded centrally to form an arm 8, and the separate parts or sides of the wire after being folded to form the arm 8 are formed into a spiral coil 9 and then into a supplemental arm 10, and these arms 10 extend parallel with the arm 8. A short spring-wire 11 is coiled around the supplemental arms 10, as shown at 12, and the method of attaching the lock is clearly shown in the accompanying drawings.

The main arm is passed through the opening 7 in the end of the bolt after the nut has been screwed on, and the supplemental arms 10 pass over the face of the nut adjacent to the end of the bolt, as clearly shown in the drawings, and the ends thereof are bent down parallel and in contact with the side of the nut opposite the coils 9 to form end sections 13. The ends of the wire 11 are also bent down adjacent to the sides of the nut to form angular portions or members 14, and when the lock is thus secured in place the nut cannot turn and the lock cannot accidentally

come off, the only way of removing the lock being to straighten out the angular end sections or members 13 and the angular portions or members 14, then slide the wire 11 off of the arms 10, after which the main arm 8 may be removed from the end of the bolt.

My improved nut-lock may be applied to nuts of any desired form and size and is simple in construction and operation and perfectly adapted to accomplish the result for which it is intended and is also comparatively inexpensive.

Having fully described my invention, I claim as new and desire to secure by Letters Patent—

1. A nut-lock composed of spring-wire bent centrally to form an arm adapted to engage a bolt, the separate sides of the wire adjacent to one end of said arm being bent to form spring-coils and then to form supplemental arms parallel with the first-named arm, and a wire or rod connected with said supplemental arms at right angles thereto, said supplemental arms and said wire or rod connected therewith being adapted to engage a nut to lock the same, substantially as shown and described.

2. The combination with a screw-bolt provided with a transverse opening in the end thereof, of a nut-lock composed of wire bent to form an arm 8, coils 9 and supplemental arms 10, and a wire or rod 11 connected with the arms 10 at right angles thereto, said supplemental arms 10 and wire or rod 11 being provided with bent end portions adapted to engage the sides of a nut to lock the same, substantially as shown and described.

3. A nut-lock provided with a main arm adapted to engage a bolt, supplemental arms connected with one end thereof, and a cross wire or rod adapted to be connected with said supplemental arms at right angles thereto, said supplemental arms and said cross wire or rod being adapted to engage a nut to lock the same, substantially as shown and described.

In testimony that I claim the foregoing as my invention I have signed my name, in presence of the subscribing witnesses, this 27th day of January, 1899.

JAMES MONROE KISSINGER.

Witnesses:

H. K. WESTON,

HOWARD W. WESTON.