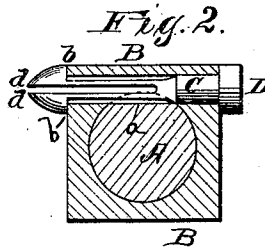
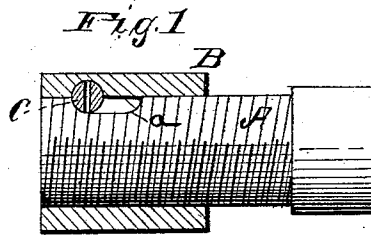


P. S. HALDEMAN & A. J. STEWART.

NUT-LOCK.

No. 181,166.

Patented Aug. 15, 1876.



WITNESSES

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UNITED STATES PATENT OFFICE.

PETER S. HALDEMAN AND ANDREW J. STEWART, OF SMITHFIELD, PA.

IMPROVEMENT IN NUT-LOCKS.

Specification forming part of Letters Patent No. **181,166**, dated August 15, 1876; application filed July 17, 1876.

To all whom it may concern:

Be it known that we, PETER S. HALDEMAN and ANDREW J. STEWART, of Smithfield, in the county of Fayette and State of Pennsylvania, have invented certain new and useful Improvements in Nut-Locks; and we do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form part of this specification.

The nature of our invention consists in the construction and arrangement of a nut-lock, as will be hereinafter more fully set forth.

In order to enable others skilled in the art to which our invention appertains to make and use the same, we will now proceed to describe its construction and operation, referring to the accompanying drawing, which fully illustrates our invention.

A represents an ordinary bolt, and B is the nut for the same.

To form our nut-lock we drill a hole through the nut and bolt, so as to cut half the size in the bolt, and then file away the thread on the bolt for a certain distance, leaving, as it were, a recess, *a*, in one side of the bolt A. To lock the nut on the bolt we use a double spring-bolt, C, with square shoulders *b b* at each side.

The sides from the shoulders taper to a sharp point, *d d*, which will allow it to start into the hole in the nut B, and as it goes in the spring closes until the shoulders *b b* get through, when it springs apart and locks the nut, the head D of the double spring-bolt preventing it from being pushed through too far.

By having the half-hole in the bolt enlarged to form the recess *a* the nut can be tightened, after removing the spring-bolt, and then locked again. To remove the spring-bolt the points are pressed together and then pushed back.

Having thus fully described our invention, what we claim as new, and desire to secure by Letters Patent, is—

The combination of the grooved nut B, recessed bolt A, and the double spring-bolt C, provided with the head D, shoulders *b b*, and points *d d*, substantially as and for the purposes herein set forth.

In testimony that we claim the foregoing as our own we do affix our signatures in presence of two witnesses.

PETER S. HALDEMAN.
ANDREW J. STEWART.

Witnesses:

WILLIAM H. HESTON,
EMANUEL S. HAYDEN.