

J. T. ANTILL & W. J. SLOAN.

Nut and Bolt Fastenings.

No. 141,980.

Patented August 19, 1873.

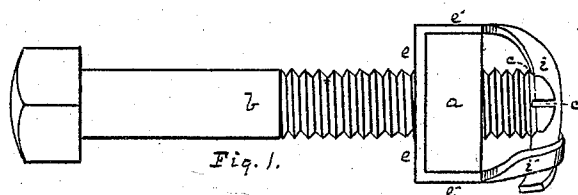


Fig. 1.

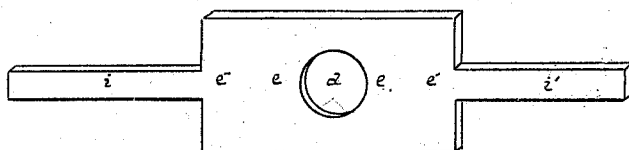


Fig. 2.

WITNESSES

James L. Ray
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INVENTOR

John T. Antill,
William J. Sloan,
by Bakewell, Christy & Kerr,
their Attys.

UNITED STATES PATENT OFFICE.

JOHN T. ANTILL, OF SMITH'S FERRY, PENNSYLVANIA, AND WILLIAM J. SLOAN, OF LIVERPOOL TOWNSHIP, COLUMBIANA COUNTY, OHIO.

IMPROVEMENT IN NUT AND BOLT FASTENINGS.

Specification forming part of Letters Patent No. **141,980**, dated August 19, 1873; application filed April 5, 1873.

To all whom it may concern:

Be it known that we, JOHN T. ANTILL, of Smith's Ferry, Beaver county, Pennsylvania, and WILLIAM J. SLOAN, of Liverpool township, in the county of Columbiana and State of Ohio, have invented a new and useful Improvement in Lock Nut and Bolt; and we do hereby declare the following to be a full, clear, and exact description thereof, reference being had to the accompanying drawing making part of this specification, in which—

Figure 1 is a side view of our lock nut and bolt; and Fig. 2 is a view in outline of the keeper and bail.

Like letters of reference indicate like parts in each.

Our invention consists in the combination of a nut, a slotted or punched bolt, and a keeper, which, by an eye punched therein, is slipped onto the bolt under the nut, and secured by its strap-ends being brought up against the sides of the nut and into the slot of the bolt and interlocked with each other:

To enable others skilled in the art to make and use our invention, we will describe the construction and manner of use.

An ordinary threaded and headed bolt is represented at *b*, and *a* is the nut to be locked in position. By any of the means usually employed for such purposes we cut a slot in the threaded end of the bolt, as at *c*, or make two or more such slots crossing each other. From sheet metal of suitable quality we cut blanks of the substantial form indicated in Fig. 2, and punch an eye, as at *d*. This eye is placed on the bolt under the nut, and after the nut is

screwed home the ends *e'* of the keeper part *e* are turned up against the opposite faces of the nut. One of the straps *i* is placed in the slot *c* and interlocked with the other strap as at *i'*.

It will readily be seen that the nut cannot turn unless the keeper turns, and that the keeper cannot turn while the straps (which mechanically constitute a bail) are interlocked with one of them in the slot *c*. It will also be observed that the bolt is as securely locked as the nut, and that neither can turn without the other.

We are aware that a wire has been passed through the body of a nut wound around the bolt, passed through the bolt, and the ends twisted together. This device requires the punching of an additional hole through the nut, which can be done only by a separate operation in a machine especially designed for the purpose, and after the nut is reheated.

What we claim as our invention, and desire to secure by Letters Patent, is—

The sheet-metal keeper *e* having an eye, *d*, and strap-ends *e'* to bear against the sides of the nut, arranged on the bolt under the nut, and secured by the bail *i i* in the slot of the bolt, substantially as set forth.

In testimony whereof we, the said JOHN T. ANTILL and WILLIAM J. SLOAN, have hereunto set our hands.

JOHN T. ANTILL.
WILLIAM J. SLOAN.

Witnesses:

A. S. NICHOLSON,
G. H. CHRISTY.