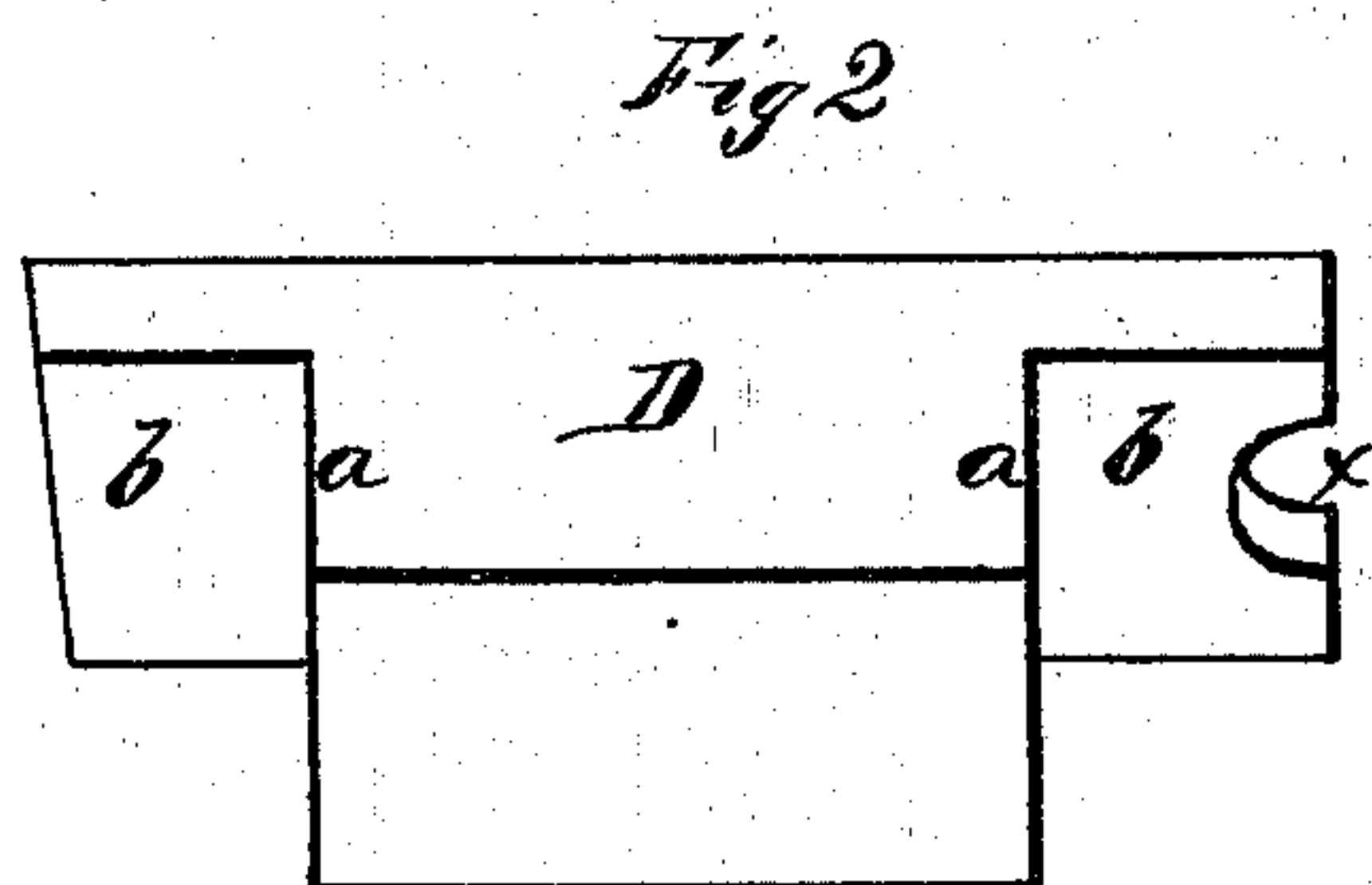
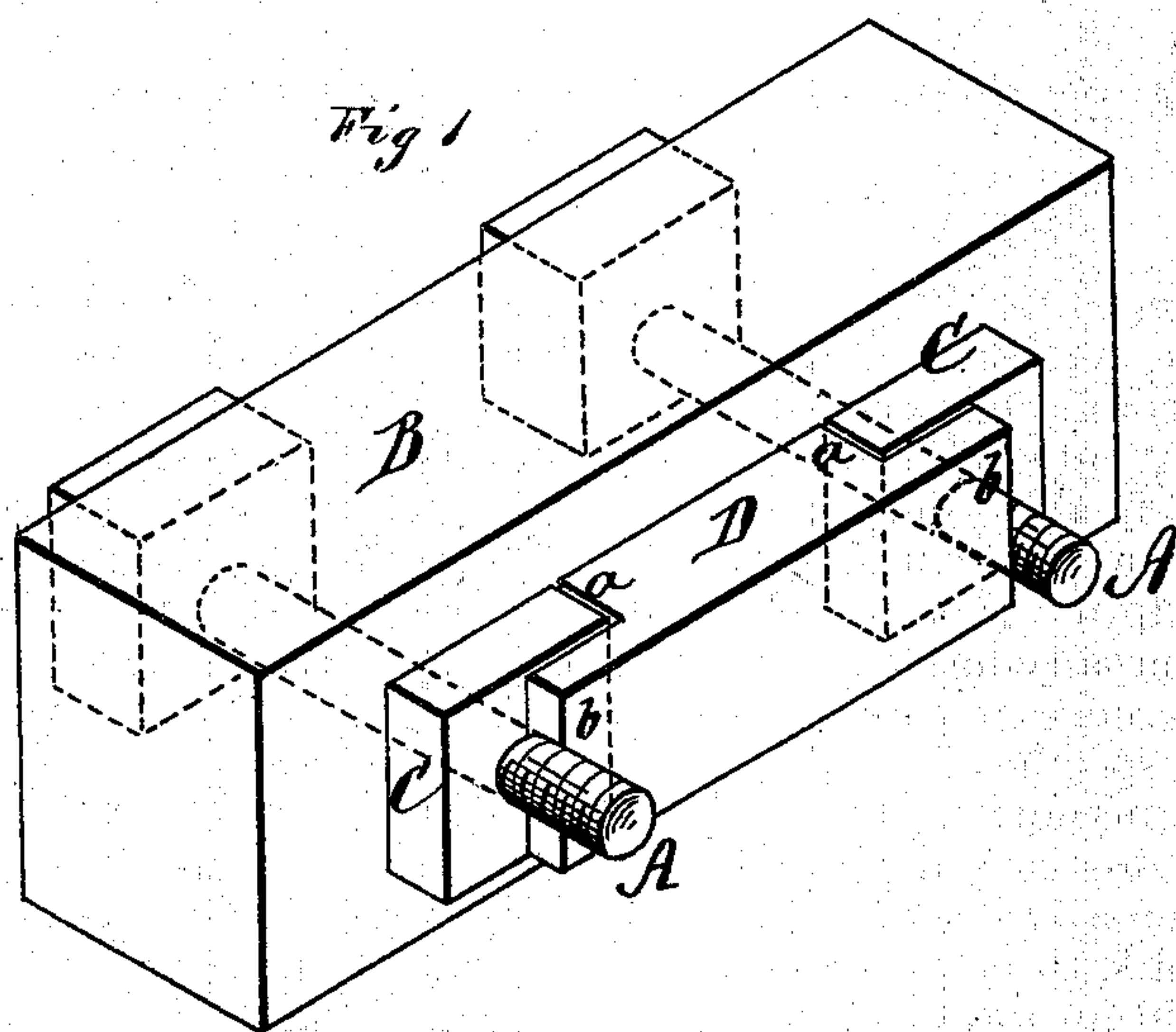


A. C. SMITH.
Nut-Locks.

No. 146,102.

Patented Dec. 30, 1873.



WITNESSES
Frank L. Ourand
C. L. Ewert.

By

INVENTOR
Albert C. Smith
Alexander Pearson
Attorneys.

UNITED STATES PATENT OFFICE.

ALBERT C. SMITH, OF FORT MADISON, ASSIGNOR TO HIMSELF, DAVID W. BLACKBURN, OF KEOKUK, AND SETH H. CRAIG, OF FORT MADISON, IOWA.

IMPROVEMENT IN NUT-LOCKS.

Specification forming part of Letters Patent No. **146,102**, dated December 30, 1873; application filed October 23, 1873.

To all whom it may concern:

Be it known that I, ALBERT C. SMITH, of Fort Madison, in the county of Lee and in the State of Iowa, have invented certain new and useful Improvements in Nut-Locks; and 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, making a part of this specification.

The nature of my invention consists in a wooden block or bar, constructed with a shoulder or offset at each end, so as to fit in between two nuts and their bolts, the threads entering the wood, thereby holding the block or bar in position, and the block holds the nut from coming off, as will be hereinafter more fully set forth.

In order to enable others skilled in the art to which my invention appertains to make and use the same, I will now proceed to describe its construction and operation, referring to the annexed drawing, in which—

Figure 1 is a perspective view, showing my invention; and Fig. 2 is a perspective view of the wooden block or bar.

A A represent two bolts passing through a timber, B, or anything else where bolts are needed. C C are the nuts screwed on the ends of the bolts A A.

The object of my invention is to lock these nuts, so as to prevent them from coming off,

and this I accomplish by means of a wooden block or bar, D, having a shoulder or offset, *a*, at each end. The distance between the shoulders *a a* is such that that part of the block D will fit in between the nuts C C, while the projecting portions *b b* of the same are made to be forced down between the projecting ends of the bolts, so that the threads on the same will enter the wood. To this end, one or both of the parts *b* may be made beveled, as shown. One of the parts *b* may have a semicircular notch, *x*, to fit over the bolt; if so desired. The threads of the bolts entering the wood prevents the block or bar D from coming out of place, and as long as it remains in place the nuts cannot turn on the bolts.

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

The block or bar D, provided at each end with a shoulder or offset, *a*, to fit between the nuts C C, and the projecting parts *b b*, fitting between the bolts A A, substantially as and for the purposes herein set forth.

In testimony that I claim the foregoing, I have hereunto set my hand this 23d day of September, 1873.

ALBERT C. SMITH.

Witnesses:

JAS. H. REYNOLDS,
GEO. I. GREEN.