

T. B. KEATING & T. G. BRISTOR.

NUT-LOCK.

No. 169,908.

Patented Nov. 16, 1875.

Fig. 1.

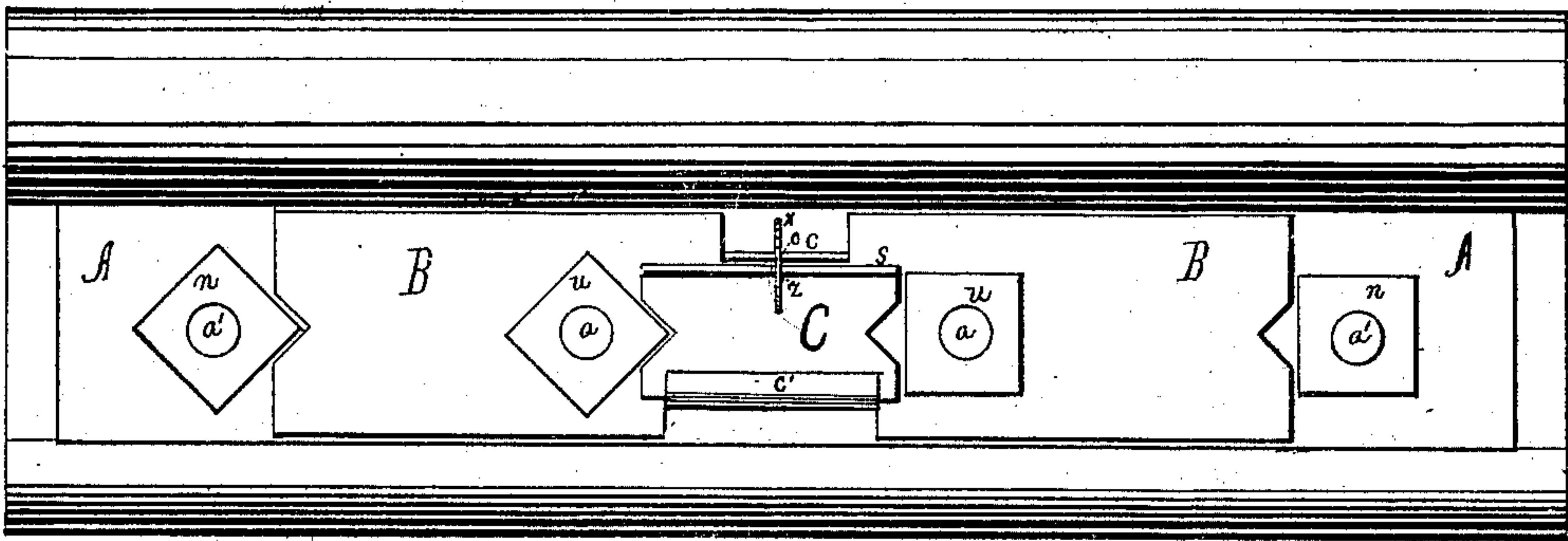


Fig. 2.

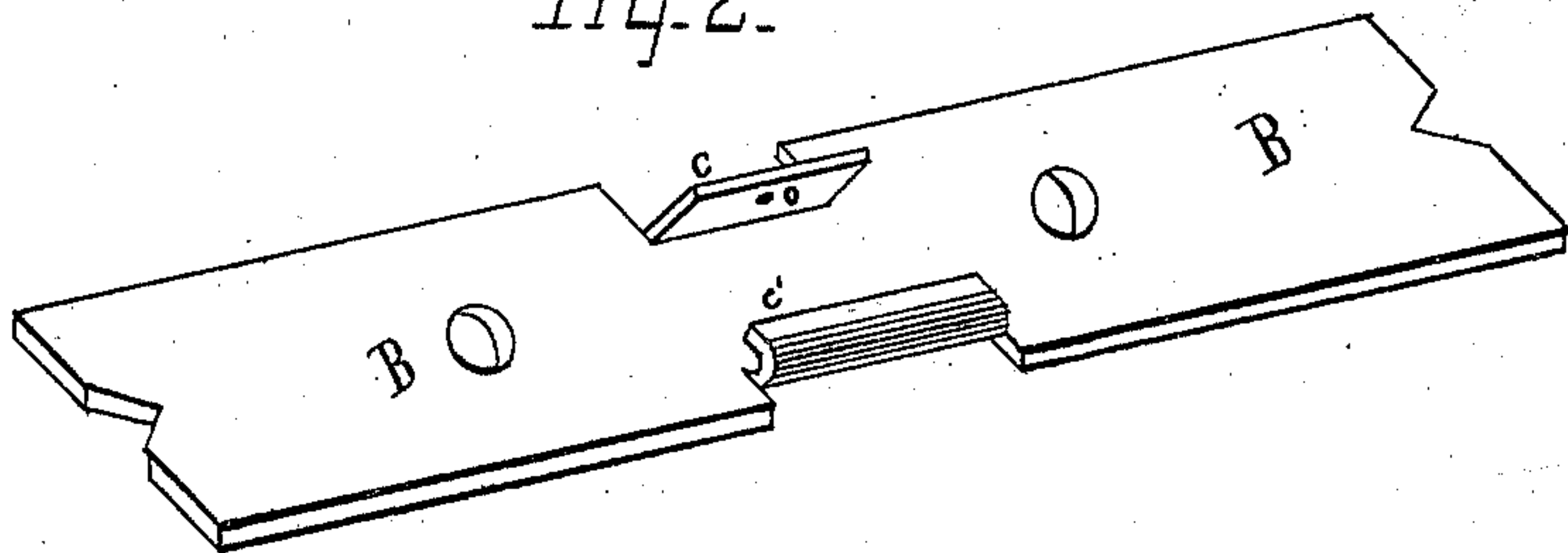


Fig. 3.

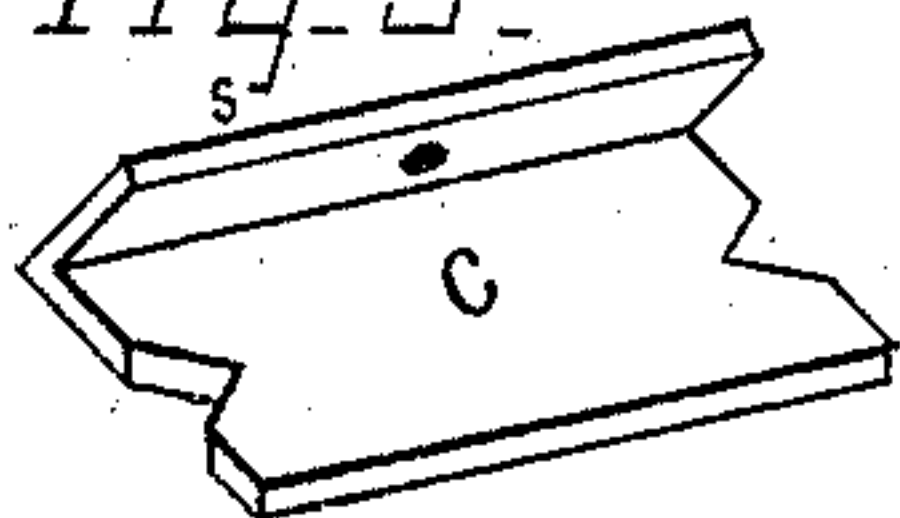
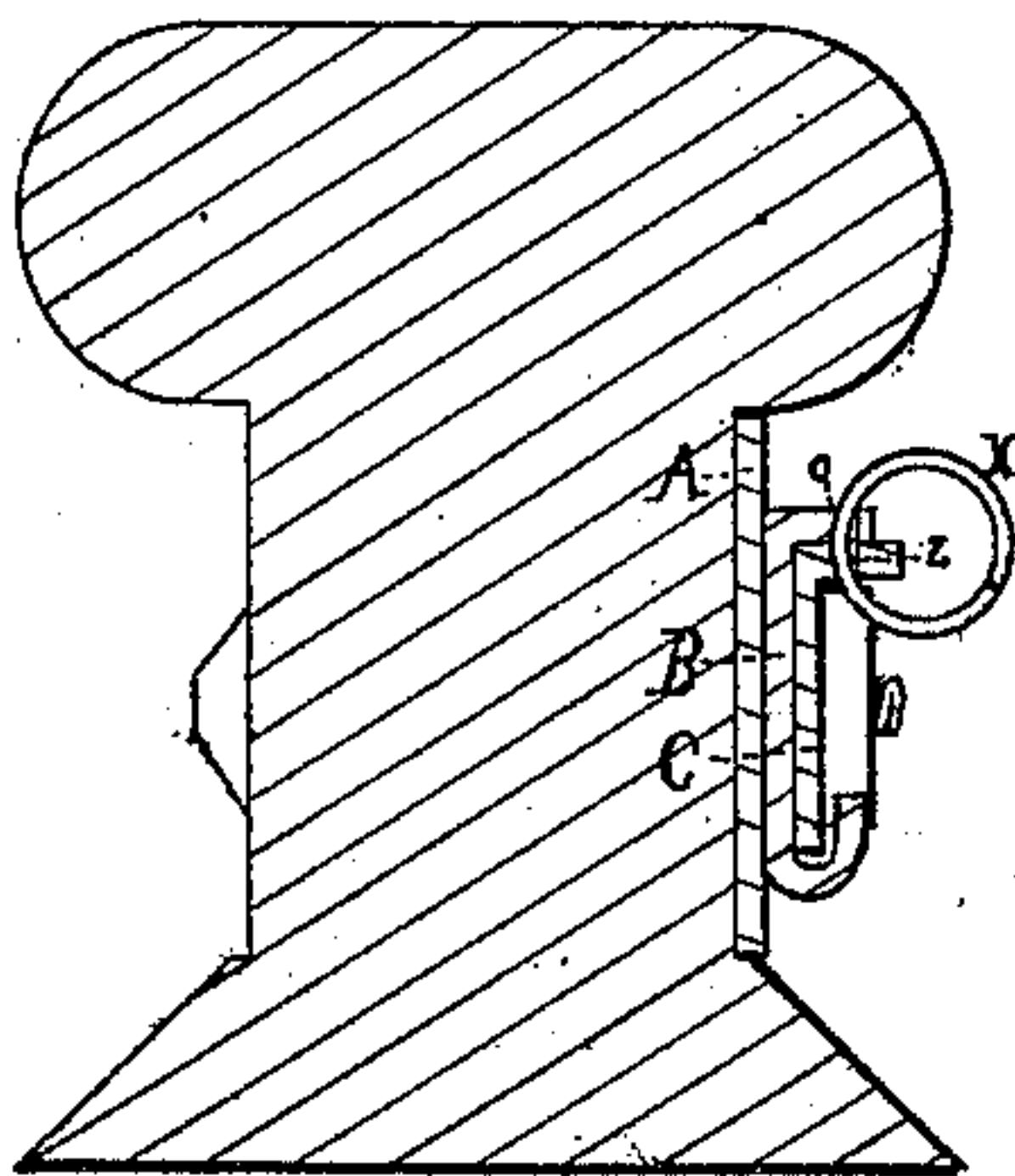


Fig. 4.



WITNESSES
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UNITED STATES PATENT OFFICE.

THOMAS B. KEATING AND THOMAS G. BRISTOR, OF MANSFIELD, OHIO.

IMPROVEMENT IN NUT-LOCKS.

Specification forming part of Letters Patent No. **169,908**, dated November 16, 1875; application filed March 5, 1875.

To all whom it may concern:

Be it known that we, THOMAS B. KEATING and THOMAS G. BRISTOR, of Mansfield, Richland county, Ohio, have invented certain new and useful Improvements in Nut-Locking Devices, of which the following is a specification, reference being had to the annexed drawings, making part of the same, and to the letters and figures of reference marked thereon.

The nature of our invention consists in the construction and arrangement of a device for locking nuts on railway-rail joints, and analogous purposes, as will be hereinafter more fully set forth.

Figure 1 is a side elevation embodying the elements of the invention. Fig. 2 is a perspective view of the lock-plate. Fig. 3 is a perspective view of the angle-plate; and Fig. 4 a transverse sectional view.

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 annexed drawings, in which—

A represents a fish-plate of ordinary construction, and provided with apertures for the reception of the bolts *a' a a a'*, and consists of a smooth piece of metal of such dimensions as the article to which it is to be attached requires. The locking-plate B is secured to the fish-plate by means of the bolts *a a*. This plate is made of sufficient length to admit of its ends engaging with the nuts *n n*, thereby securing said nuts from turning or working loose. At the center of the lock-plate B the lip *c* and pocket *c'* are formed by transversely cutting the plate for a portion of its width, and bending the lip *c* at, or nearly at, a right angle to the main part of the plate. The lip *c* is provided with an aperture, *o*, for the reception of the ring X. The pocket *c'* is formed by bending upward the lower lip, so that its inside faces will be about parallel to the main plate, the uses of which will be hereinafter explained. The ends of the plate B are provided with notches of the form shown at *m m*, to be

used at the convenience of the operator. C is an angle-plate of sufficient length to occupy the space between the inside edges of the nuts *u u*, and having the upper part bent so as to form an angle, as shown at *s*, which is provided with an aperture which corresponds in size and position with the one in the lip *c*. The ends of this plate are provided with the notches *z²*, for the purpose of engaging the nuts *u* when in a diagonal position.

The operation of our invention is as follows: The plate A is placed upon the side of a rail or other mechanism upon which it can conveniently be used. The bolts *a' a'* extend through apertures in the plate A, upon which the nuts *n n* are screwed firmly down. The locking-plate B is then placed upon the side of the plate A between the two outside nuts, and is fastened thereto by means of the bolts *a a* and nuts *u u*. The angle-plate C is now placed in position by slipping its lower edge into the pocket *c'* of the plate B, and having the part *s* just beneath the lip *c*. To prevent the angle-plate C from falling away from the plate B a ring or piece of wire is inserted into the apertures *o* and *z* already alluded to.

Having thus described the construction and operation of our invention, what we claim, and desire to secure by Letters Patent, is—

1. The locking-plate B, having the lip *c*, pocket *c'*, and notches *m*, in combination with the angle-plate C, substantially as shown and described.

2. The combination of the locking-plate B, angle-plate C, and ring X, substantially as and for the uses and purposes set forth.

In testimony that we claim the foregoing improvement in nut-lockers as above described we have hereunto set our hands and seals this 22d day of February, 1875.

THOMAS B. KEATING. [L. S.]
THOMAS G. BRISTOR. [L. S.]

Witnesses:

THOS. B. BARROW,
JNO. B. DAILY.