

(No Model.)

H. S. JOINES.
Nut Lock.

No. 237,982.

Patented Feb. 22, 1881.

Fig. 1

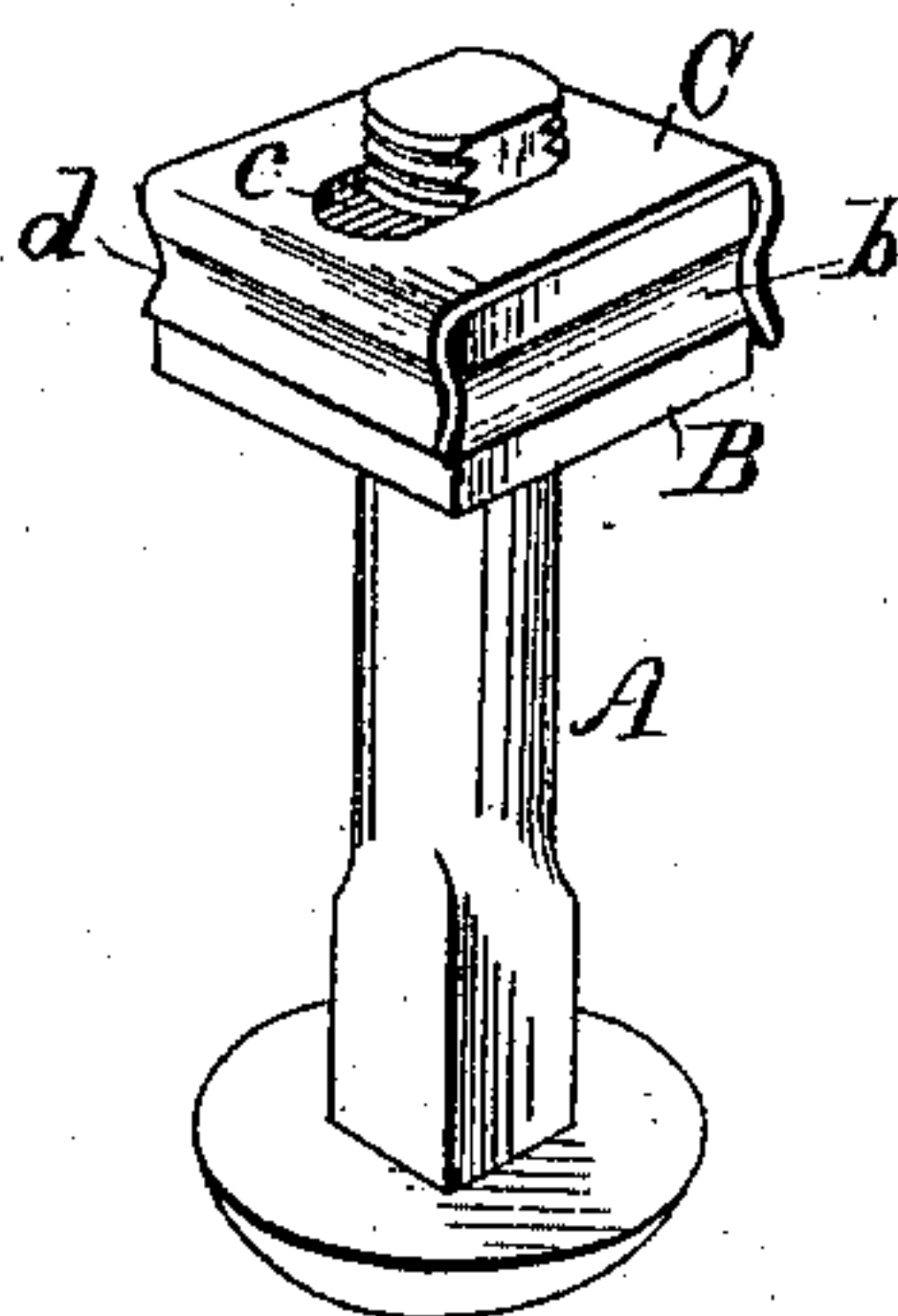


Fig. 3

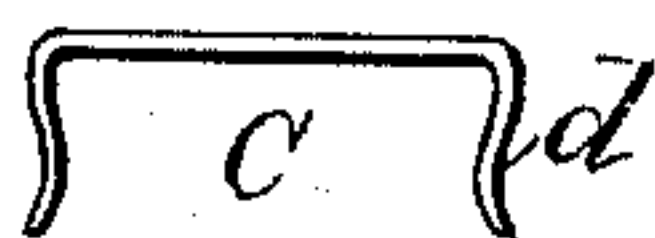


Fig. 2

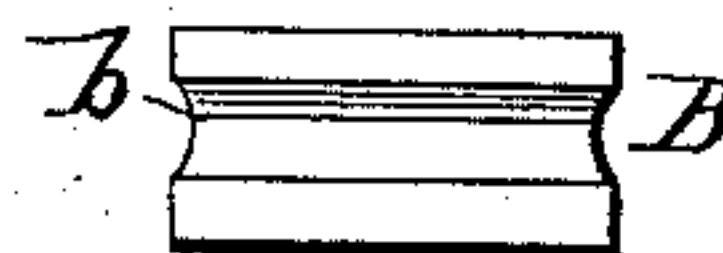
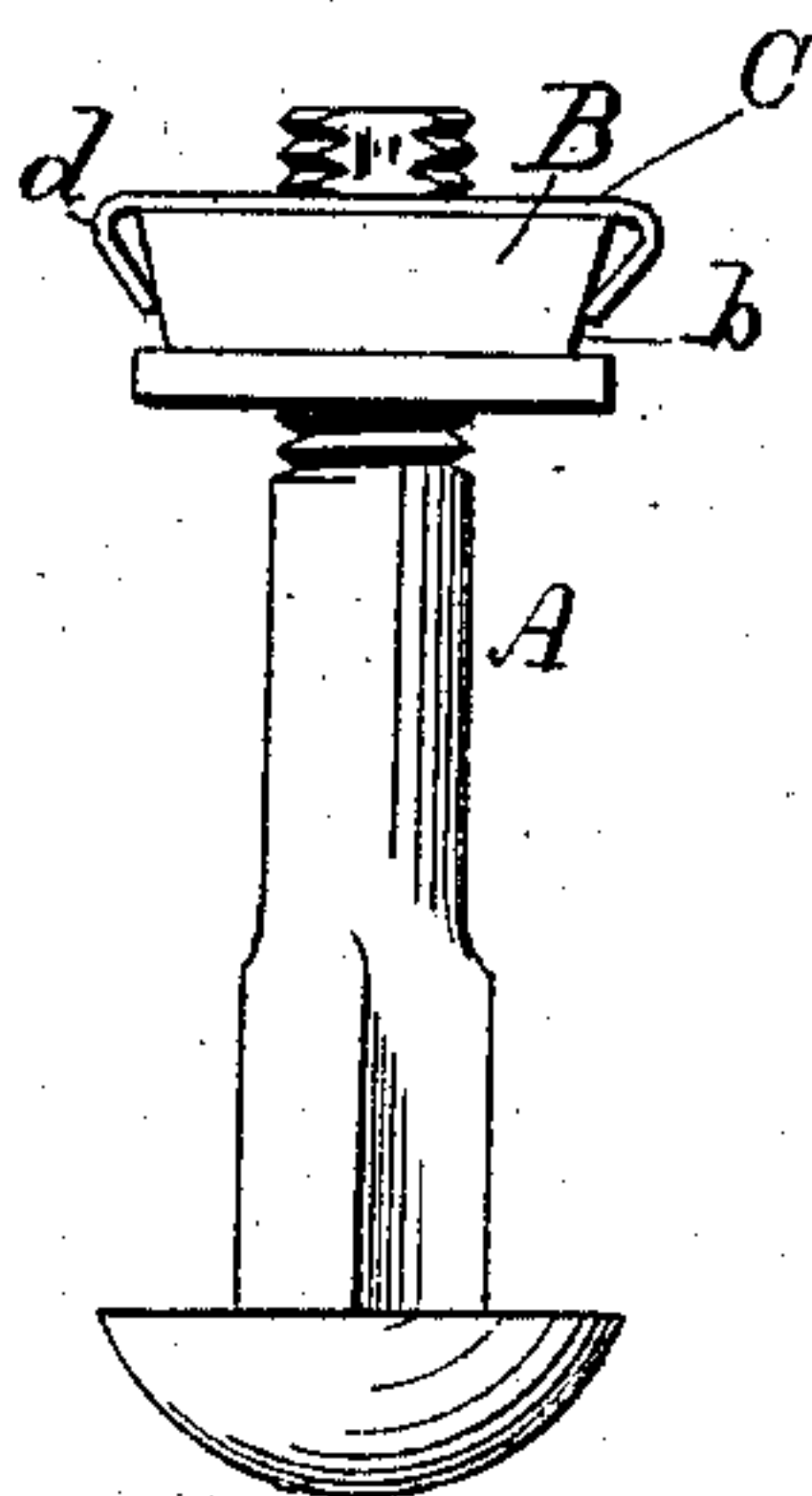


Fig. 4



Witnesses:

Alex. Scott
Wm. Evans.

Inventor

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UNITED STATES PATENT OFFICE

HUGH S. JOINES, OF SANTA FÉ, TERRITORY OF NEW MEXICO, ASSIGNOR OF ONE-HALF TO MARSHALL A. BREEDEN AND DAVID J. MILLER, OF SAME PLACE.

NUT-LOCK.

SPECIFICATION forming part of Letters Patent No. 237,982, dated February 22, 1881.

Application filed September 28, 1880. (No model.)

To all whom it may concern:

Be it known that I, HUGH S. JOINES, a citizen of the United States, residing at Santa Fé, in the county of Santa Fé and Territory of New Mexico, have invented certain new and useful Improvements in Nut-Locks; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to letters or figures of reference marked thereon, which form a part of this specification.

This invention consists in a nut having each of its four outer sides beveled or recessed, and a sheet-metal cap or washer having at each end an inwardly-turned flange, to engage with the bevels on two sides of the nut, and a slot through which the end of the bolt projects, the bolt being of flat shape on one or more of its sides, and the slot in the cap of such contour that its edges shall bind against the sides of the bolt.

In the drawings, Figure 1 represents a bolt with its end flattened on two sides and having my improved nut and cap applied thereto. Fig. 2 shows the nut, and Fig. 3 shows the cap separately. Fig. 4 represents a modification.

A is a screw-bolt, which is shown as cut away or flattened on two of its sides; but any other non-circular shape may be given to this end of the bolt, as found desirable.

B represents a screw-nut, the four outer sides of which are beveled or recessed, as at *b*, for the reception of the flanged portion of a sheet-metal cap or washer, C, which has a slot, *c*, formed in or near its center, so that it may pass over the bolt and rest against one face of the nut. This slot is shown in the drawings as of oblong shape; but it may be formed of any desired angle, the object being to so form said slot that its edges shall always bind against the sides of the bolt when in position. The flanged ends *d* of this cap are turned inward, so as to form a spring-clasp for embracing the nut on two of its sides, their operation being, when the cap is slipped over the bolt and onto the nut, to spring into the recessed portion of the nut, by which means, in connection with

the slot fitting the bolt, said bolt and nut are held fast without possibility of turning. 50

The device is very simple in construction, easy of application, and efficient in use.

The bolt A having been passed through the articles to be secured, the nut B is screwed thereon to the proper position. The cap C is then placed over the projecting end of the bolt and forced down into close contact with the face of the nut, and the inwardly-turned flanges *d*, by the same movement, pressed over the edges of the nut and sprung into the beveled sides thereof, where they are firmly held by their spring-like action and the peculiar form of the sides of the nut, and as the edges of the slotted portion of the cap bind against the flattened portion of the bolt, both the bolt and nut are securely held from turning so long as the cap remains in position. 65

In lieu of placing the cap or washer C over the top of the bolt and upon the upper face of the nut it may, if desired, be placed over the bolt first, the nut then applied and screwed home, and the flanged ends of the cap then sprung into the beveled sides of the nut. This spring plate or cap C is eminently well adapted for holding the bolt and nut from turning, as it cannot be displaced by blows from projecting objects, there being no protruding parts to come in contact with other articles; it cannot be loosened or turned out of locking position, as is the case where the locking device consists of a projecting button; nor can it be forced on one side and bent out of shape, and thereby destroy its clasping feature, as is the case where a plane-sided nut and a flat or straight flanged cap are used. The cap may be removed, when desired, by inserting between the face of the nut and the under face of the cap a screw-driver or other suitable instrument and prying the cap off; and it can be readily reapplied as often as desired, as there are no parts requiring to be turned back to permit of its removal and then hammered down—a manipulation often preventing the reuse of nut-clamping caps, by reason of the strain and breakage resultant from such bending. 95

In Fig. 4 I have shown a modification of my

invention. In this construction the nut B gradually tapers from the top to near the bottom, where such taper terminates in a groove or recess, *b*. The sheet-metal cap C has an elongated slot, *c*, as in the before-mentioned construction; but in lieu of the downturned corners of the cap resting upon and embracing the edges of the nut, as in Fig. 1, they may extend beyond said edges, as shown in Fig. 4, so as to be out of close contact with the nut at those points, and at the same time increase the facility with which said cap may be removed, as the space in which the raising-tool would be inserted is larger than in the preceding example. The flanges *d* are intumed, as in the other construction, and spring into recesses *b* in the sides of the nut.

Having thus described my invention, what I

claim as new, and desire to secure by Letters Patent, is—

1. The nut B, having its outer sides beveled or recessed at *b*, and the sheet-metal cap C, slotted at *c*, to receive the bolt, and having inwardly-bent flanges *d d*, to engage with said beveled nut, substantially as and for the purpose set forth.

2. The combination of an irregularly-shaped bolt, A, nut B, having beveled sides *b*, and the cap C, having slot *c* and inwardly-bent flanges *d*, substantially as and for the purpose set forth.

In testimony whereof I affix my signature in presence of two witnesses.

HUGH S. JOINES.

Witnesses:

J. M. BREEDEN,
T. O. SMITH.